

Product Catalogue 2023-24

Leading the signal all over the world









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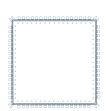
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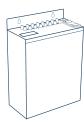




Who we are

Lemco has over 40 years of experience in designing and manufacturing TV signal broadcast equipment. Renowned for its high standards of quality and wide range of innovative products, it has become established as one of the leading companies in the Greek and European markets. It offers integrated solutions via its wide range product portfolio and technical support services.





What we do

Lemco specializes in the development, production and distribution of professional equipment that process and delivers the TV signal over RF, IP and Fiber optics interfaces as described below:

- DTV RF modulators
- Professional TV headends
- CATV amplifiers, attenuators etc.
- SAT multiswitches
- Fiber Optics distribution solutions (GPON, ONU etc.)
- IPTV middleware
- HDMI products series
- Accessories (i.e. RF splitters, coax cables etc.)











Quality

We are dedicated to meeting the needs of our customers and to keeping our promises. Our primary objective is the provision of products of high quality and standards. This is ensured through quality checks at every stage of the production process.



Innovation

We anticipate change and seek to be at the forefront of leading electronics technologies. Ongoing research in conjunction with cutting-edge knowledge and creativity guide us constantly towards new and innovative solutions, aimed at offering more sophisticated and efficient products to our customers.



Human Resources

Our philosophy is human-centred, whether it concerns our staff members, customers, partners or suppliers. We promote and support teamwork, embracing each person's diversity. The continuous development of our employees and the provision of equal educational and training opportunities are central to us. Our work environment is characterized by open communication, trust and fair treatment.



Consistency & Reliability

We consider our word a commitment and our promises a priority. Therefore we operate with honesty and integrity, with our principles and values as a compass.



We export to _____ countries.

FYROM

INDIA MALAYSIA

TUNISIA NIGERIA

IRAQ ALGERIA

VIETNAM NORWAY CHINA

HONG KONG

GREECE	CZECH REPUBLIC	ALBANIA
HOLLAND	IRELAND	MOROCCO
SPAIN	LITHUANIA	SAUDI ARABIA
POLAND	SLOVAKIA	ICELAND
BELGIUM	FINLAND	AUSTRALIA
MALTA	AUSTRIA	SWITZERLAND
FRANCE	PORTUGAL	EGYPT
ITALY	CROATIA	SINGAPORE
CYPRUS	HUNGARY	S. AFRICA
GERMANY	TURKEY	LEBANON
DENMARK	U.A.E.	MALDIVES
UNITED KINGDOM	OMAN	NEW ZEALAND

Our products are

100% EU Manufactured





ISO Certifications



ISO 9001:2015

In Lemco we have adopted the standards of the ISO 9001:2015 to all our services, internal organization as well as our product manufacturing in order to provide to our customers unparallel quality and efficiency in every possible level. Our constant target is to always move forward and provide the highest possible standards of innovative and supreme quality products.



ISO 14001:2015

In Lemco we have adopted the standards of the ISO 14001:2015 for our environmental management system, following our public awareness and our respect for the environment. Our constant effort to provide innovative solutions to the market goes always hand in hand with our ecological sensitivity and responsibility, as we strongly believe that a clean and safe environment is the key to the development of our future.



ISO 45001:2018

In Lemco we have adopted the standards of the ISO 45001:2018 for our workplaces and our company's premises, declaring this way and through our Corporate Social Responsibility (CSR) that we consider our employees as the company's greatest asset. Innovation emanates from people and a safe anthropocentric environment can only promote such new ideas.

Licenses

Our constant target is to always move forward and provide the highest possible standards of innovative and supreme quality products.



HDCP

In Lemco we always try to provide products that are not only innovative but also compatible with all the needed standards and for that reason we are an HDCP Licensed Adopter so all the products that we manufacture comply with the terms of the Agreement, including the Compliance and Robustness Rules.



All our innovative **Lemco** products that use the Bluetooth technology have completed the product qualification process and are publicly listed. Through our Bluetooth Adopter Membership, we have the right to develop, manufacture, brand and sell products that utilize the Bluetooth technology.



HDMI

All our innovative Lemco products that use the HDMI technology have completed the product qualification process and are publicly listed. Through our HDMI Adopter Membership, we have the right to develop, manufacture, brand and sell products that utilize the HDMI technology.



DVB-T2

Lemco is fully compliant with the standards and patents of the DVB-T2, for all our products that utilize the relevant patents, through the licensing program of the Sisvel company.



DVB-S2X

Lemco is fully compliant with the standards and patents of the DVB-S2X, for all our products that utilize the relevant patents, through the licensing program of the Sisvel company.



CE

With our Lemco products being manufactured exclusively and 100% in house, in our state-of-the-art facilities in Athens, Greece, we proudly affix the CE mark to all our Lemco devices. The high standards of production of an EU made product was, and will always be our banner.











Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



HEADENDS

 $\cdot \, \text{Proline} \cdot \text{Compact Line 2 Gold Edition} \cdot \text{Micro Line}$



TV just got better...



The most integrated solution for hospitality TV





This comprehensive and advanced product is the epitome of innovation, with a wide range of applications that cover all industry standards (including DVB-S/S2/S2X/T/T2/C/HDMI/IP) and a truly versatile solution that can deliver signals over DVB-T/C and IP simultaneously, making it the perfect choice for the hospitality industry.

At the heart of the Lemco Pro Line is its advanced signal processing capabilities. With its powerful TS multiplexer and 16x inputs and outputs, the Lemco Pro Line is a true industry leader that can process large volumes of data and TV/Radio programs in a single unit, rendering it an exceptional and unparalleled solution for all your signal processing needs. Moreover, the compact 1U Rack mount design is space-saving and efficient, thanks to its cutting-edge design and advanced cooling technology.







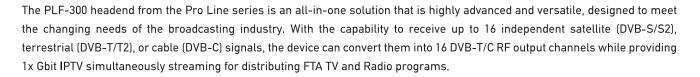
PLF-300

16 x DVB-S/S2/T/T2/C to 16 x DVB-T/C & IP

Features

- 16 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 16 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty





For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLF-300 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16×10^{-5} x inputs and assign it to any of the 16×10^{-5} RF + IP outputs.

The PLF-300 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLF-300, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLF-300 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLF-300 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



PLF-300

16 x DVB-S/S2/T/T2/C to 16 x DVB-T/C & IP





Input		RF Output	
Туре	16 x DVB-S/S2/T/T2/C	Туре	16 x DVB-T or 16 x DVB-C RF channels
Frequencies	9502150 MHz DVB-S/S2		2 groups of 8 adjacent channels in DVB-T
	118900MHz DVB-T/T2/C		8 groups of 2 adjacent channels in DVB-C
Connector	75Ω - F, female	Output Frequencies	110900 MHz (10 KHz step)
Loop-through connector	No	Output Level	90dBµV
LNB		Connector	75Ω - F, female
Voltage	OFF / 13V / 18V	Output Attenuator	030dB
Current	Less than 400mA (per input)	DVB-T (OUT)	
22 kHz signal	ON / OFF	Bandwidth	5, 6, 7, 8 MHz
22 kHz signal - Voltage	$0.65V \pm 0.35V$	Mode	2K, 8K
22 kHz signal - Frequency	22 KHz ± 4Hz	Constellation	QPSK, 16QAM, 64QAM
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)	Guard interval	1/4, 1/8, 1/16, 1/32
DVB-S (IN)		Code rate	1/2, 2/3, 3/4, 5/6, 7/8
Symbol rate	1 - 45 MBaud	MER	More than 42dB @ Full Band
Roll off factor	0.35	DVB-C (OUT)	THOSE WIGHT SEASON TO THE SEAS
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)	Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Spectral inversion	Reverse, Non-reverse (Automatic)	Symbol rate	2.5-8.4 Ms/s
DVB-S2 (IN)	reverse, Non-reverse (Automatic)	Channel step	310MHz
Constellation	QPSK, 8PSK (Automatic)	MER	More than 40dB @ Full Band
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)	IP Streaming (OUT)	More than 400b @ rutt band
Roll off factor	0.2 / 0.35 (Automatic)	IP TS Out	Yes
Code rate	· · · · · · · · · · · · · · · · · · ·	Protocol	UDP / RTP (Multicast/Unicast)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)		
6	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)	Speed	1 Gbit (800 Mbps in IP only mode)
Spectral inversion	Reverse, Non-reverse (Automatic)	Type	Up to 128 x SPTS or 16 x MPTS
DVB-T (IN)	(E 0 M)	SDP/SAP Support	Yes
Bandwidth	6, 7, 8 MHz	IP Streaming (IN)	
Mode	2K, 8K	Optional	Requires extra license
Constellation	QPSK, 16QAM, 64QAM	IP TS In	Yes
Guard interval	1/4, 1/8, 1/16, 1/32	Protocol	UDP / RTP (Multicast/Unicast)
Code rate	1/2, 2/3, 3/4, 5/6, 7/8	Speed	1 Gbit (800 Mbps)
DVB-T2 (IN)		Туре	Up to 128 x SPTS or 16 x MPTS
Bandwidth	5, 6, 7, 8 MHz	IGMP snooping	Yes, v2 and v3
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)	Programming Interface	
Constellation	QPSK, 16QAM, 64QAM, 256QAM	Operating system	Linux 0S
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6	Ethernet webserver	Yes, embedded webserver
Multi PLP support	Yes	Speed	100/1000 Mbps
DVB-C (Annex A,B,C)		Connector	RJ45
Bandwidth	5, 6, 7, 8 MHz	Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
Mode	Automatic modulation detection	EAN-13	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM	Code	5213009761864
Transport Stream Processing		General	
Pool technology support	Yes	Power supply	115230 VAC
Services	User selection by service names or Service ID	Frequency range	4763Hz
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables	Number of power supplies	Up to two(2)
NIT	Pass-through, custom, automatic	Hot-swap technology	Yes
Custom NIT/SDT creation	Yes	Power supply consumption	~60VA
PCR	Re-stamping	Operating temperature	0 °C to 40 °C
PCR correction	Yes	Storage temperature	-10 °C to +70 °C
LCN support	Yes	Humidity	Up to 90%
PID filtering	Yes	Dimensions	480 x 295 x 43.5mm
EPG information	Yes over RF and IP	Mounting	1U rack
		Weight	4.45 Kg



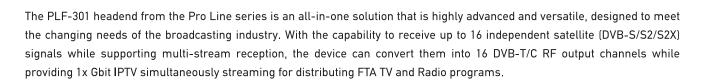
PLF-301

16 x DVB-S/S2/S2X to 16 x DVB-T/C & IP

Features

- 16 x independent multi-standard inputs DVB-S/S2/S2X
- · Multi-Stream and Multi-PLP support
- 16 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty





For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLF-300 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16×10^{-5} x inputs and assign it to any of the 16×10^{-5} RF + IP outputs.

The PLF-301 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLF-301, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLF-301 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLF-301 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



PROLINE PLF-301 16 x DVB-S/S2/S2X to 16 x DVB-T/C & IP





I	
Input	1/ 0/0 0/00/00/
Type	16 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
Loop-through connector	Yes
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2X (IN)	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK) / 1 - 30 MBaud (8PSK)
Roll off factor	Апо́ 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Multi-stream support	Yes
T2MI MPLP (multiple PLP) signa	Yes
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

RF Output	
Туре	16 x DVB-T or 16 x DVB-C RF channels
	2 groups of 8 adjacent channels in DVB-T
	8 groups of 2 adjacent channels in DVB-C
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5. 6. 7. 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band
IP Streaming (OUT)	1-101 C MIGHT 400B C T GR BUILD
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	163
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Туре	Up to 128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	165, VZ aliu V3
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
	100/1000 Mbps
Speed	RJ45
Connector	
Browser compatibility EAN-13	Chrome, Firefox, Safari, Opera, Edge et al.
Code	5213009761871
	5213009761871
General	115 220 VAC
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~60VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.45 Ka



PLF-200

16 x DVB-S/S2/T/T2/C to IP



Features

- 16 x independent multi-standard inputs DVB-S/S2/T/T2/C
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- · PCR re-stamping, Correction
- EPG over IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty



The PLF-200 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent satellite (DVB-S/S2), terrestrial (DVB-T/T2), or cable (DVB-C) signals, the device can convert them into 1x Gbit IPTV streaming for distributing FTA TV and Radio programs.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLF-200 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16 x inputs and assign it to any of the IP outputs.

The PLF-200 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLF-200, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLF-200 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLF-200 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



PROLINE PLF-200 16 x DVB-S/S2/T/T2/C to IP





Input	
Туре	16 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
Loop-through connector	No
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-T (IN)	
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 (IN)	
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Multi PLP support	Yes
DVB-C (Annex A,B,C)	
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Type	Up to 128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761819
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~60VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.35 Kg



PLF-201

16 x DVB-S/S2/S2X to IP



Features

- 16 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-Stream and Multi-PLP support
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- PCR re-stamping, Correction
- EPG over IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty



The PLF-201 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent satellite (DVB-S/S2/S2X) signals while supporting multi-stream reception, the device can convert them into 1x Gbit IPTV streaming for distributing FTA TV and Radio programs.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLF-201 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16 x inputs and assign it to any of the IP outputs.

The PLF-201 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLF-201, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLF-201 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLF-201 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



PROLINE PLF-201 16 x DVB-S/S2/S2X to IP





Input	
Туре	16 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Trequencies	7302130 MHZ
Connector	75Ω - F, female
Loop-through connector	Yes
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2X (IN)	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK) / 1 - 30 MBaud (8PSK)
Roll off factor	Апо́ 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Multi-stream support	Yes
T2MI MPLP (multiple PLP) signa	Yes
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Туре	Up to 128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	
Operating system	Linux OS
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761826
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~60VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.35 Kg



PLC-300

16 x DVB-S/S2/T/T2/C + 8 x FlexCAM to 16 x DVB-T/C & IP

Features

- 16 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 16 x RF output DVB-T/C (software selectable)
- 8x Common Interfaces (FlexCAM technology)
- 16 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty

The PLC-300 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent satellite (DVB-S/S2), terrestrial (DVB-T/T2), or cable (DVB-C) signals, the device can convert them into 16 DVB-T/C RF output channels while providing 1x Gbit IPTV simultaneously streaming for distributing FTA TV and Radio programs.

The PLC-300 offers unparalleled flexibility in descrambling capabilities. It supports up to 8x Common Interfaces (CI) using the advanced FlexCAM technology, which allows users to connect them to either the inputs or outputs of the multiplexer. This innovative technology provides advanced descrambling flexibility, enabling the user to customize their broadcasting services to meet the unique needs of their audience.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLC-300 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16×10^{-5} x inputs and assign it to any of the 16×10^{-5} RF + IP outputs.

The PLC-300 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLC-300, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLC-300 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLC-300 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.





PROLINE PLC-300 16 x DVB-S/S2/T/T2/C + 8 x FlexCAM

to 16 x DVB-T/C & IP





Input	A. DVD G/GO/T/TO/O
Type	16 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
Loop-through connector	No
LNB	055 (10)((10)(
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF 0.65V ± 0.35V
22 kHz signal - Voltage	0.65V ± 0.35V 22 KHz ± 4Hz
22 kHz signal - Frequency 22 kHz signal - DiSEgC	1.0 (Port A, B, C, D)
DVB-S (IN)	1.0 (FOITA, B, C, D)
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	neverse, non-reverse (Automatic)
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
CI Interface	
Number of Common Interfaces	8x (in total)
FlexCAM technology	Yes
Connectror	PCMCIA (front access)
Max. Frequency	77MHz
DVB-T (IN)	
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 (IN)	
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Multi PLP support	Yes
DVB-C (Annex A,B,C)	
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

	RF Output	
	Type	16 x DVB-T or 16 x DVB-C RF channels
		2 groups of 8 adjacent channels in DVB-T
		8 groups of 2 adjacent channels in DVB-C
	Output Frequencies	110900 MHz (10 KHz step)
	Output Level	90dBµV
	Connector	75Ω - F, female
	Output Attenuator	030dB
	DVB-T (OUT)	
	Bandwidth	5, 6, 7, 8 MHz
	Mode	2K, 8K
	Constellation	QPSK, 16QAM, 64QAM
	Guard interval	1/4, 1/8, 1/16, 1/32
	Code rate	1/2, 2/3, 3/4, 5/6, 7/8
	MER	More than 42dB @ Full Band
	DVB-C (OUT)	
	Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
	Symbol rate	2.5-8.4 Ms/s
	Channel step	310MHz
	MER	More than 40dB @ Full Band
	IP Streaming (OUT)	
	IP TS Out	Yes
:)	Protocol	UDP / RTP (Multicast/Unicast)
	Speed	1 Gbit (800 Mbps in IP only mode)
	Туре	Up to 128 x SPTS or 16 x MPTS
	SDP/SAP Support	Yes
	IP Streaming (IN)	
	Optional	Requires extra license
	IP TS In	Yes
	Protocol	UDP / RTP (Multicast/Unicast)
	Speed	1 Gbit (800 Mbps)
	Type	Up to 128 x SPTS or 16 x MPTS
	IGMP snooping	Yes, v2 and v3
	Programming Interface	165, 12 414 15
	Operating system	Linux OS
	Ethernet webserver	Yes, embedded webserver
	Speed	100/1000 Mbps
	Connector	RJ45
	Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
	EAN-13	chrome, rhelox, Salari, Opera, Luge et al.
	Code	5213009761888
	General	3213007701000
	Power supply	115230 VAC
	Frequency range	4763Hz
		Up to two(2)
	Number of power supplies Hot-swap technology	Yes
	,	~65VA
	Power supply consumption	
	Operating temperature	0 °C to 40 °C
	Storage temperature	-10 °C to +70 °C
	Humidity	Up to 90%
	Dimensions	480 x 295 x 43.5mm
	Mounting	1U rack
	Weight	4.65 Kg



PLC-301

16 x DVB-S/S2/S2X + 8 x FlexCAM to 16 x DVB-T/C & IP

Features

- 16 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-Stream and Multi-PLP support
- 8x Common Interfaces (FlexCAM technology)
- 16 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- · PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty

The PLC-301 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent satellite (DVB-S/S2/S2X) signals while supporting multi-stream reception, the device can convert them into 16 DVB-T/C RF output channels while providing 1x Gbit IPTV simultaneously streaming for distributing FTA TV and Radio programs.

The PLC-301 offers unparalleled flexibility in descrambling capabilities. It supports up to 8x Common Interfaces (CI) using the advanced FlexCAM technology, which allows users to connect them to either the inputs or outputs of the multiplexer. This innovative technology provides advanced descrambling flexibility, enabling the user to customize their broadcasting services to meet the unique needs of their audience.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLC-301 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16×10^{-5} x inputs and assign it to any of the 16×10^{-5} RF + IP outputs.

The PLC-301 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLC-301, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLC-301 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLC-301 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations,





PROLINE PLC-301

16 x DVB-S/S2/S2X + 8 x FlexCAM to 16 x DVB-T/C & IP





16 x DVB-S/S2/S2X
9502150 MHz
9502150 MITZ
75Ω - F, female
Yes
OFF / 13V / 18V
Less than 400mA (per input)
ON / OFF
$0.65V \pm 0.35V$
22 KHz ± 4Hz
1.0 (Port A, B, C, D)
1 - 45 MBaud
0.35
1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Reverse, Non-reverse (Automatic)
QPSK, 8PSK (Automatic)
1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
0.2 / 0.35 (Automatic)
1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Reverse, Non-reverse (Automatic)
reverse, non-vereise (vaccinate)
EN302 307-1 V1.4.1
QPSK, 8PSK (automatic)
1 - 45 MBaud (QPSK) / 1 - 30 MBaud (8PSK)
Anó 0.05 to 0.35 (automatic)
1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Yes
Yes
8x (in total)
Yes
PCMCIA Itront accessi
PCMCIA (front access)
77MHz
77MHz
77MHz Yes
77MHz Yes User selection by service names or Service ID
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic Yes
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic Yes Re-stamping
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic Yes Re-stamping Yes
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic Yes Re-stamping Yes Yes
77MHz Yes User selection by service names or Service ID PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic Yes Re-stamping Yes

RF Output	
Туре	16 x DVB-T or 16 x DVB-C RF channels
	2 groups of 8 adjacent channels in DVB-T
	8 groups of 2 adjacent channels in DVB-C
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band
IP Streaming (OUT)	Piore didit 4000 C 1 de Baild
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Туре	Up to 128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	103, 72 and 73
Operating system	Linux OS
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	Citiottie, Firelox, Salari, Opera, Euge et at.
Code	5213009761895
General	3213007701073
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~65VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43,5mm
Mounting	1U rack
Weight	4.65 Ka
**Eigin	4.00 Ng



PLC-200

16 x DVB-S/S2/T/T2/C + 8 x FlexCAM to IP

Features

- 16 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 8x Common Interfaces (FlexCAM technology)
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- PCR re-stamping, Correction
- EPG over IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty



The PLC-200 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent satellite (DVB-S/S2), terrestrial (DVB-T/T2), or cable (DVB-C) signals, the device can convert them into 1x Gbit IPTV streaming for distributing FTA TV and Radio programs.

The PLC-200 offers unparalleled flexibility in descrambling capabilities. It supports up to 8x Common Interfaces (CI) using the advanced FlexCAM technology, which allows users to connect them to either the inputs or outputs of the multiplexer. This innovative technology provides advanced descrambling flexibility, enabling the user to customize their broadcasting services to meet the unique needs of their audience.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLC-200 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16 x inputs and assign it to any of the IP outputs.

The PLC-200 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLC-200, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLC-200 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLC-200 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



PROLINE

PLC-200

 $16 \times DVB-S/S2/T/T2/C + 8 \times FlexCAM$ to IP





Input	
Туре	16 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F. female
Loop-through connector	No
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
CI Interface	
Number of Common Interfaces	8x (in total)
FlexCAM technology	Yes
Connectror	PCMCIA (front access)
Max. Frequency	77MHz
DVB-T (IN)	
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 (IN)	
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Multi PLP support	Yes
DVB-C (Annex A,B,C)	
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
PCR correction LCN support	Yes Yes

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Type	Up to 128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Type	Up to 128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761833
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~60VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.35 Kg



PLC-201

16 x DVB-S/S2/S2X + 8 x FlexCAM to IP

Features

- 16 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-Stream and Multi-PLP support
- 8x Common Interfaces (FlexCAM technology)
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- PCR re-stamping, Correction
- EPG over IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty





The PLC-201 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent satellite (DVB-S/S2/S2X) signals while supporting multi-stream reception, the device can convert them into 1x Gbit IPTV streaming for distributing FTA TV and Radio programs.

The PLC-201 offers unparalleled flexibility in descrambling capabilities. It supports up to 8x Common Interfaces (CI) using the advanced FlexCAM technology, which allows users to connect them to either the inputs or outputs of the multiplexer. This innovative technology provides advanced descrambling flexibility, enabling the user to customize their broadcasting services to meet the unique needs of their audience.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLC-201 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16 x inputs and assign it to any of the IP outputs.

The PLC-201 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLC-201, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLC-201 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLC-201 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



PLC-201

16 x DVB-S/S2/S2X + 8 x FlexCAM





Input	
Туре	16 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
Loop-through connector	Yes
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2X (IN)	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK) / 1 - 30 MBaud (8PSK)
Roll off factor	Апо́ 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Multi-stream support	Yes
T2MI MPLP (multiple PLP) signa	Yes
Clinterface	
Number of Common Interfaces	8x (in total)
FlexCAM technology	Yes
Connectror	PCMCIA (front access)
Max. Frequency	77MHz
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	
Optional	Requires extra license
IPTS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Туре	Up to 128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761840
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~65VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.55 Kg



PLH-300

16 x HDMI to 16 x DVB-T/C & IP

Features

- 16 x HDMI inputs
- Full HD H.264 encoding
- HDCP v1.4 support
- 16 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty



The PLH-300 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent HDMI inputs while supporting HDCP technology, the device can convert them into 16 DVB-T/C RF output channels while providing 1x Gbit IPTV simultaneously streaming for distributing FTA TV and Radio programs.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLH-300 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16 x inputs and assign it to any of the 16 x RF + IP outputs.

The PLH-300 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLH-300, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLH-300 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLH-300 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.











Input	
Туре	16 x HDMI
Video	
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 1080 - 50/60 p & i
Output resolution	Up to 1920 1080 - 30p
HDCP support	Yes, v1.4
Audio	
Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3
H.264 encoder	= ===,
Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
LCN support	Yes
PID filtering	Yes
RF Output	
Type	16 DVB-T or 16 x DVB-C RF channels
	2 groups of 8 adjacent channels in DVB-T
	8 groups of 2 adjacent channels in DVB-C
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 16 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Туре	128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761901
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~60VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.20 Kg



PLH-200

16 x HDMI to IP

Features

- 16 x HDMI inputs
- Full HD H.264 encoding
- HDCP v1.4 support
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty



The PLH-200 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 16 independent HDMI inputs while supporting HDCP technology, the device can convert them into 1x Gbit IPTV streaming for distributing FTA TV and Radio programs.

For IPTV reception applications, the device can receive up to 128x SPTS or 16x MPTS and convert them to 16 DVB-T/C RF output channels with an extra license. The PLH-200 offers unmatched flexibility with its "pool" technology, enabling users to select any program from any of the 16×10^{-5} x inputs and assign it to any of the 16×10^{-5} RF + IP outputs.

The PLH-200 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLH-200, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLH-200 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLH-200 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.









Input	
Туре	16 x HDMI
Video	
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 1080 - 50/60 p & i
Output resolution	Up to 1920 1080 - 30p
HDCP support	Yes, v1.4
Audio	
Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3
H.264 encoder	
Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
LCN support	Yes
PID filtering	Yes
IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	Up to 16 x SPTS or 16 x MPTS
SDP/SAP Support	Yes

IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (480 Mbps)
Туре	128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Programming Interface	
Operating system	Linux OS
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761857
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~60VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	4.10 Kg



PLI-400

IP 128SPTS (UDP/RTP) to 16 x DVB-T/C

Features

- IPTV reception (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- 16 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 128 x SPTS / 16 x MPTS) @ 800Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 1U Rack size
- Dual "Hot pluggable" power supplies
- 5 year warranty

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The PLI-400 headend from the Pro Line series is an all-in-one solution that is highly advanced and versatile, designed to meet the changing needs of the broadcasting industry. With the capability to receive up to 128 x SPTS / 16 x MPTS IPTV signals, the device can convert them into 16 DVB-T/C RF output channels while providing 1x Gbit IPTV simultaneously streaming for distributing FTA TV and Radio programs.

The PLI-400 is equipped with a powerful CPU (Quad core @ 1.8GHz / 2GB RAM), responsible for controlling the device using Linux OS while providing a friendly and incredibly fast user interface. It can be remotely or locally controlled via Ethernet, adding to the device's ease of use.

The compact 1U rack size of the PLI-400, combined with its advanced features, ensures that the device consumes the minimal rack space while it has the ability to accept dual "hot-pluggable" power supplies, adding an extra level of reliability and redundancy to ensure the device remains operational even in case of a power supply failure.

The PLI-400 can host an IPTV middleware (Fleex Embedded) without the need for any external server, enabling users to control all TV monitors in an installation, including LG, Samsung, Philips, and custom STBs, while offering a wide range of features such as Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and many more.

Overall, the PLI-400 headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



TECHNICAL SPECIFICATIONS

PROLINE
PLI-400
IP 128SPTS (UDP/RTP) to 16 x DVB-T/C





IP Streaming (IN)	
Optional	Requires extra license
IP TS In	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps)
Type	128 x SPTS or 16 x MPTS
IGMP snooping	Yes, v2 and v3
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP
RF Output	
Туре	16 x DVB-T or 16 x DVB-C RF channels
	2 groups of 8 adjacent channels in DVB-T
	8 groups of 2 adjacent channels in DVB-C
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (800 Mbps in IP only mode)
Туре	128 x SPTS or 16 x MPTS
SDP/SAP Support	Yes
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761918
General	
Power supply	115230 VAC
Frequency range	4763Hz
Number of power supplies	Up to two(2)
Hot-swap technology	Yes
Power supply consumption	~40VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	480 x 295 x 43.5mm
Mounting	1U rack
Weight	3.75 Kg



PROLINE

PLA-002

External power supply for Pro Line series









The PLA-002 power supply is a highly reliable and efficient device that provides uninterrupted power supply to Pro Line headend series. Despite its compact size, the PLA-002 delivers impressive power output, ensuring that even the most demanding broadcasting operations run smoothly.

Designed with safety in mind, the PLA-002 is equipped with advanced protection features that safeguard against overloading, overheating, and short-circuiting. This ensures that the device remains operational, even in the event of unexpected power surges or failures.

In addition to its impressive technical capabilities, the PLA-002 is also incredibly easy to install and maintain, making it a popular choice among broadcasting professionals.

110240VAC
50/60Hz
< 0.25mA @ 240VAC
12VDC
6.7A max.
120mVp-p
115-160% rated output power
12.6-16.2V
Shut-Down, Re-power on to recover
5213009761932
B :10 ~ 500Hz, G 10min./1cycle, period for 60min. lank 2 each along X, Y, Z axes
ST:10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes
IEC62368-1, IEC60335-1,Dekra BS EN/EN60335-1,BS EN/EN62368-1,UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved
0 °C to 60 °C
-10 °C to +70 °C
Up to 90%
162 x 70 x 41mm
Pro Line series
0.35 Kg



COMPACT LINE 2 GOLD

This versatile and advanced product series is designed to accommodate a wide range of industry standards, including DVB-S/S2/S2X/T/T2/C/HDMI, making it the ideal choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.

At the core of the Lemco Compact Line 2 series is its state-of-the-art signal processing capabilities. With multiple inputs and outputs, the Compact Line 2 headends are capable of efficiently processing and distributing large volumes of data and TV/Radio programs, providing a comprehensive and scalable solution for all your signal processing needs. Furthermore, the compact design saves space and ensures efficient operation, thanks to its advanced cooling technology.













COMPACT LINE

SCL-824CT

8 x independent multi-standard inputs DVB-S/S2/T/T2/C to 4 x DVB-T/C & IP

Features

- 4 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 64 x SPTS / 4 x MPTS) @ 480Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 5 year warranty



The SCL-824CT headend from Lemco's Compact Line 2 series is a highly versatile and efficient all-in-one device designed to accommodate diverse broadcasting needs. Its advanced capabilities include the ability to receive up to 8 independent signals from satellite (DVB-S/S2), terrestrial (DVB-T/T2), or cable (DVB-C) sources, converting them into 4 DVB-T/C RF output channels while simultaneously offering 1 Gbit IPTV streaming.

The device's innovative "pool" technology allows users to select any program from the 8 inputs and assign it to any of the 4 RF + IP outputs, providing exceptional flexibility in content distribution. Powered by a robust CPU (Quad-core @ 1.8GHz / 2GB RAM) and operating on Linux OS, the SCL-824CT ensures smooth and efficient device control, while offering a user-friendly and highly responsive interface. Additionally, the device can be controlled remotely or locally via Ethernet.

The compact design and impressive features of the SCL-824CT make it the perfect solution for distributing Free-To-Air (FTA) TV programs from various sources (satellite, terrestrial, or cable) to a CATV installation using DVB-T/C and IP technology.

Furthermore, the device is capable of hosting an IPTV middleware (Fleex Embedded) without the need for an external server, enabling users to control all TV monitors in an installation (with support for LG, Samsung, Philips, and custom STBs). This provides a wide range of features, including Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and more.

Overall, the SCL-824CT headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



TECHNICAL SPECIFICATIONS

COMPACT LINE

SCL-824CT

8 x independent multi-standard inputs DVB-S/S2/T/T2/C to 4 x DVB-T/C & IP





Input	
Туре	8 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
Loop-through connector	No
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal – Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal – DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-T (IN)	
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 (IN)	
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Multi PLP support	Yes
DVB-C (Annex A,B,C)	
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Transport Stream Processing	ייים אין פרט אין פרט אין די פרט אין די פרט אין די פרט אין
Pool technology support	Yes
Services	User selection by service names or Service ID
	·
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	•
•	
EPG information	Yes over RF and IP
Automatic regeneration NIT Custom NIT/SDT creation PCR PCR correction LCN support PID filtering EPG information	PAT, CAT, SDT, PMTs, EITs tables Pass-through, custom, automatic Yes Re-stamping Yes Yes Yes Yes Yes Yes over RF and IP

RF Output	
Туре	4 x DVB-T or 4 x DVB-C RF adjacent channels
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dB _µ V
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band
IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (480 Mbps in IP only mode)
Туре	Up to 64 x SPTS or 4 x MPTS
SDP/SAP Support	Yes
RF Matrix	
RF Matrix Support	Yes, optional
Working frequency	350MHz
Number of TVs	Up to 99 TV monitors
Compatible STB	RFM-002
Programming Interface	
Operating system	Linux OS
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761291
General	
Power supply	115230 VAC
Frequency range	4763Hz
Power supply consumption	~55VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	296.2 x 204.5 x 106mm
Weight	1.70 Kg



COMPACT LINE

SCL-834CT

8 x independent multi-standard inputs DVB-S/S2/S2X to 4 x DVB-T/C & IP

Features

- Multi-stream reception support
- 4 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 64 x SPTS / 4 x MPTS) @ 480Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 5 year warranty



The SCL-834CT headend from Lemco's Compact Line 2 series is a highly versatile and efficient all-in-one device designed to accommodate diverse broadcasting needs. Its advanced capabilities include the ability to receive up to 8 independent signals from satellite (DVB-S/S2/S2X) with multi-stream support, converting them into 4 DVB-T/C RF output channels while simultaneously offering 1 Gbit IPTV streaming.

The device's innovative "pool" technology allows users to select any program from the 8 inputs and assign it to any of the 4 RF + IP outputs, providing exceptional flexibility in content distribution. Powered by a robust CPU (Quad-core @ 1.8GHz / 2GB RAM) and operating on Linux OS, the SCL-834CT ensures smooth and efficient device control, while offering a user-friendly and highly responsive interface. Additionally, the device can be controlled remotely or locally via Ethernet.

The compact design and impressive features of the SCL-834CT make it the perfect solution for distributing Free-To-Air (FTA) TV programs from various satellite sources to a CATV installation using DVB-T/C and IP technology.

Furthermore, the device is capable of hosting an IPTV middleware (Fleex Embedded) without the need for an external server, enabling users to control all TV monitors in an installation (with support for LG, Samsung, Philips, and custom STBs). This provides a wide range of features, including Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and more.

Overall, the SCL-834CT headend is an innovative and powerful device that provides advanced features and flexibility to deliver high-quality TV distribution. It's a great choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



TECHNICAL SPECIFICATIONS

COMPACT LINE

SCL-834CT

8 x independent multi-standard inputs DVB-S/S2/S2X to 4 x DVB-T/C & IP





Input	
Туре	8 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F. female
Loop-through connector	Yes
LNB	les
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
	ON / OFF
22 kHz signal Voltage	$0.65V \pm 0.35V$
22 kHz signal - Voltage	
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	1 /FMDd
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	ODCIV ODCIV (A. I I)
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2X (IN)	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK) / 1 - 30 MBaud (8PSK)
Roll off factor	Aπό 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Multi-stream support	Yes
T2MI MPLP (multiple PLP) signa	Yes
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

RF Output	
Туре	4 x DVB-T or 4 x DVB-C RF adjacent channels
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band
IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (480 Mbps in IP only mode)
Туре	Up to 64 x SPTS or 4 x MPTS
SDP/SAP Support	Yes
RF Matrix	
RF Matrix Support	Yes, optional
Working frequency	350MHz
Number of TVs	Up to 99 TV monitors
Compatible STB	RFM-002
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761307
General	
Power supply	115230 VAC
Frequency range	4763Hz
Power supply consumption	~55VA
Operating temperature	0 °C to 40 °C
	10.001 50.00
Storage temperature	-10 °C to +70 °C
Storage temperature Humidity	Up to 90%
* '	



COMPACT LINE

SCL-424CT

4 x independent multi-standard inputs DVB-S/S2/T/T2/C to 4 x DVB-T/C & IP

Features

- 4x Common Interfaces (FlexCAM technology)
- 4 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 64 x SPTS / 4 x MPTS) @ 480Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 5 year warranty



The SCL-424CT headend from Lemco's Compact Line 2 series is an advanced and powerful all-in-one device, designed to meet diverse broadcasting requirements. Capable of receiving up to 4 independent satellite (DVB-S/S2), terrestrial (DVB-T/T2), or cable (DVB-C) signals, it converts them into 4 DVB-T/C RF output channels while simultaneously providing 1 Gbit IPTV streaming.

Featuring 4 CI interfaces with FlexCAM technology, the SCL-424CT can descramble various TV content using the appropriate CAM (Conditional Access Module). Its innovative "pool" technology allows users to select any program from the 4 inputs and assign it to any of the 4 RF + IP outputs, ensuring exceptional flexibility in content distribution.

Powered by a robust CPU (Quad-core @ 1.8GHz / 2GB RAM) and operating on Linux OS, the SCL-424CT guarantees efficient device control and offers a user-friendly, highly responsive interface. Additionally, the device can be managed remotely or locally via Ethernet. With its compact design and impressive features, the SCL-424CT is an ideal solution for distributing Free-To-Air (FTA) TV programs from various sources (satellite, terrestrial, or cable) to a CATV installation using DVB-T/C and IP technology.

Furthermore, the SCL-424CT can host an IPTV middleware (Fleex Embedded) without requiring an external server, allowing users to control all TV monitors in an installation (compatible with LG, Samsung, Philips, and custom STBs). This provides a wide range of features, including Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and more.

Overall, the SCL-424CT headend is a sophisticated and versatile device that delivers top-quality TV distribution, making it an excellent choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



TECHNICAL SPECIFICATIONS

COMPACT LINE

SCL-424CT

4 x independent multi-standard inputs DVB-S/S2/T/T2/C to 4 x DVB-T/C & IP





Input	
Туре	4 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
Traquentico	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
Loop-through connector	No
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
Clinterface	
Number of Common Interfaces	4x (in total)
FlexCAM technology	Yes
Connectror	PCMCIA
Max. Frequency	75MHz or 85,70MHz
DVB-T (IN)	
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 (IN)	
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Multi PLP support	Yes
DVB-C (Annex A,B,C)	
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

RF Output	
Туре	4 x DVB-T or 4 x DVB-C RF adjacent channels
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band
IP Streaming (OUT)	
IPTS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (480 Mbps in IP only mode)
Туре	Up to 64 x SPTS or 4 x MPTS
SDP/SAP Support	Yes
RF Matrix	
RF Matrix Support	Yes, optional
Working frequency	350MHz
Number of TVs	Up to 99 TV monitors
Compatible STB	RFM-002
Programming Interface	
Operating system	Linux OS
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761314
General	
Power supply	115230 VAC
Frequency range	4763Hz
Power supply consumption	~55VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	296.2 x 204.5 x 106mm
Weight	1.70 Kg



COMPACT LINE

SCL-434CT

4 x independent multi-standard inputs DVB-S/S2/S2X to 4 x DVB-T/C & IP

Features

- · Multi-stream reception support
- 4x Common Interfaces (FlexCAM technology)
- 4 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 64 x SPTS / 4 x MPTS) @ 480Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- PCR re-stamping, Correction
- EPG over RF and IP
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 5 year warranty



The SCL-434CT headend from Lemco's Compact Line 2 series is a highly versatile and efficient all-in-one device designed to accommodate diverse broadcasting needs. Its advanced capabilities include the ability to receive up to 4 independent signals from satellite (DVB-S/S2/S2X) with multi-stream support, converting them into 4 DVB-T/C RF output channels while simultaneously offering 1 Gbit IPTV streaming.

Featuring 4 CI interfaces with FlexCAM technology, the SCL-434CT can descramble various TV content using the appropriate CAM (Conditional Access Module). Its innovative "pool" technology allows users to select any program from the 4 inputs and assign it to any of the 4 RF + IP outputs, ensuring exceptional flexibility in content distribution.

Powered by a robust CPU (Quad-core @ 1.8GHz / 2GB RAM) and operating on Linux OS, the SCL-434CT guarantees efficient device control and offers a user-friendly, highly responsive interface. Additionally, the device can be managed remotely or locally via Ethernet. With its compact design and impressive features, the SCL-434CT is an ideal solution for distributing satellite TV programs from various sources to a CATV installation using DVB-T/C and IP technology.

Furthermore, the SCL-434CT can host an IPTV middleware (Fleex Embedded) without requiring an external server, allowing users to control all TV monitors in an installation (compatible with LG, Samsung, Philips, and custom STBs). This provides a wide range of features, including Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and more.

Overall, the SCL-434CT headend is a sophisticated and versatile device that delivers top-quality TV distribution, making it an excellent choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



TECHNICAL SPECIFICATIONS

COMPACT LINE

SCL-434CT

4 x independent multi-standard inputs DVB-S/S2/S2X to 4 x DVB-T/C & IP





Input	
Туре	4 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
Loop-through connector	Yes
LNB	
Voltage	OFF / 13V / 18V
Current	Less than 400mA (per input)
22 kHz signal	ON / OFF
22 kHz signal - Voltage	$0.65V \pm 0.35V$
22 kHz signal - Frequency	22 KHz ± 4Hz
22 kHz signal - DiSEqC	1.0 (Port A, B, C, D)
DVB-S (IN)	
Symbol rate	1 - 45 MBaud
Roll off factor	0.35
Code rate	1/2, 2/3, 3/4, 5/6, 7/8 (Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2 (IN)	
Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK) - 1 - 30 MBaud (8PSK)
Roll off factor	0.2 / 0.35 (Automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK-Automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-Automatic)
Spectral inversion	Reverse, Non-reverse (Automatic)
DVB-S2X (IN)	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK) / 1 - 30 MBaud (8PSK)
Roll off factor	Anó 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Multi-stream support	Yes
T2MI MPLP (multiple PLP) signa	Yes
CI Interface	
Number of Common Interfaces	4x (in total)
FlexCAM technology	Yes
Connectror	PCMCIA
Max. Frequency	75MHz or 85,70MHz
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
PCR	Re-stamping
PCR correction	Yes
LCN support	Yes
PID filtering	Yes
EPG information	Yes over RF and IP

RF Output	
Туре	4 x DVB-T or 4 x DVB-C RF adjacent channels
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band
IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (480 Mbps in IP only mode)
Туре	Up to 64 x SPTS or 4 x MPTS
SDP/SAP Support	Yes
RF Matrix	
RF Matrix Support	Yes, optional
Working frequency	350MHz
Number of TVs	Up to 99 TV monitors
Compatible STB	RFM-002
Programming Interface	
Operating system	Linux 0S
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761321
General	
Power supply	115230 VAC
Frequency range	4763Hz
Power supply consumption	~55VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	296.2 x 204.5 x 106mm
Weight	1.70 Kg



COMPACT LINE

HCL-824CT

8 x HDMI inputs to 4 x DVB-T/C & IP

Features

- Full HD H,264 encoding
- HDCP v1.4 support
- 4 x RF output DVB-T/C (software selectable)
- MER value > 45dB
- IPTV streaming (up to 8 x SPTS / 4 x MPTS) @ 480Mpbs
- SAP/SDP support
- "Pool" technology
- PID Filtering
- Custom NIT/SDT support
- Very friendly user interface
- Fleex Embedded support (IPTV middleware)
- 5 year warranty



The HCL-824CT headend from Lemco's Compact Line 2 series is a state-of-the-art, all-in-one device designed to accommodate a wide range of broadcasting needs. With the ability to receive up to 8x HDMI signals, it efficiently converts them into 4 DVB-T/C RF output channels while simultaneously providing 1 Gbit IPTV streaming.

Leveraging "pool" technology, the HCL-824CT allows users to select any program from the 8 inputs and assign it to any of the 4 RF + IP outputs, ensuring unparalleled flexibility in content distribution. Equipped with a powerful CPU (Quad-core @ 1.8GHz / 2GB RAM) and operating on Linux OS, the device offers smooth and efficient control, along with a user-friendly and highly responsive interface. It can also be managed remotely or locally via Ethernet.

The compact design and impressive features of the HCL-824CT make it the perfect solution for distributing HDMI content, such as from set-top boxes or Blu-ray sources, to a CATV installation using DVB-T/C and IP technology.

Additionally, the HCL-824CT can host an IPTV middleware (Fleex Embedded) without the need for an external server, enabling users to control all TV monitors in an installation (compatible with LG, Samsung, Philips, and custom STBs). This offers a diverse range of features, including Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG, and more.

Overall, the HCL-824CT headend is a sophisticated and versatile device that delivers high-quality TV distribution, making it an excellent choice for cable TV companies, IPTV providers, hotels, hospitals, and other similar installations.



TECHNICAL SPECIFICATIONS

COMPACT LINE

HCL-824CT

8 x HDMI inputs to 4 x DVB-T/C & IP





Input	
Туре	8 x HDMI
Video	
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4
Audio	
Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3
H.264 encoder	
Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name. Service ID
LCN processing	Yes
Transport Stream Processing	
Pool technology support	Yes
Services	User selection by service names or Service ID
Automatic regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT	Pass-through, custom, automatic
Custom NIT/SDT creation	Yes
LCN support	Yes
PID filtering	Yes
RF Output	
Туре	4 x DVB-T or 4 x DVB-C RF adjacent channels
Output Frequencies	110900 MHz (10 KHz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	030dB
DVB-T (OUT)	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
MER	More than 42dB @ Full Band
DVB-C (OUT)	
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	2.5-8.4 Ms/s
Channel step	310MHz
MER	More than 40dB @ Full Band

IP Streaming (OUT)	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit (480 Mbps in IP only mode)
Туре	Up to 8 x SPTS or 4 x MPTS
SDP/SAP Support	Yes
RF Matrix	
RF Matrix Support	Yes, optional
Working frequency	350MHz
Number of TVs	Up to 99 TV monitors
Compatible STB	RFM-002
Programming Interface	
Operating system	Linux OS
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.
EAN-13	
Code	5213009761338
General	
Power supply	115230 VAC
Frequency range	4763Hz
Power supply consumption	~55VA
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	296.2 x 204.5 x 106mm
Weight	1.70 Kg





MICRO LINE

Mini headend series consisting of three sub-families (FTA, CI and HDMI) with a total of 18 different models able to cover any kind of small to medium installations in a reasonable cost.





FTA series

MLF-100

4 x DVB-S/S2/T/T2/C to 4 x DVB-T/C

The MLF-100 is a very powerful, all-in-one device, able to receive up to four (4) independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in four (4) x DVB-T/C RF output channels. It supports "pool" technology, meaning that the user is able to select any program from any of the 4 inputs and assign it to any of the four (4) RF providing great flexibility.

The embedded web server of the MLF-100 provides a very friendly user interface as well as the ability of remote or local control of the device via Ethernet.

Its small size and its powerful features renders the MLF-100 the ideal solution in cases we want to distribute FTA (Free-To-Air) TV programs coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using the DVB-T/C or IP technology.

Features

- 4 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 4 x RF output DVB-T/C (software selectable)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- · Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard





Input	
Туре	4 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
•	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
-,	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-T	
Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 / T2 Lite	
Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K
	(Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
ITU-T J.83	
Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM

Output Specifications

Standard	EN 300-744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
ITU-T J.83 Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
Constellation	256QAM
Complete mate	
Symbol rate	1-7.2 Ms/s
RF Output	
Туре	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB
Services Automatic Regeneration	User selection by service names PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Punace Modo	Voc
Bypass Mode:	Yes
Programming Interface	
Programming Interface Ethernet webserver	Yes, embedded webserver
Programming Interface Ethernet webserver Speed	Yes, embedded webserver 10/100 Mbps
Programming Interface Ethernet webserver Speed Connector	Yes, embedded webserver 10/100 Mbps RJ45
Programming Interface Ethernet webserver Speed Connector	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge
Programming Interface Ethernet webserver Speed Connector Browser compatibility	Yes, embedded webserver 10/100 Mbps
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0)
Programming Interface Ethernet webserver Speed Connector Browser compatibility	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13 Code	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0)
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0)
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0) 5213009760102
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply Power supply consumption	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0) 5213009760102 2 x +12VDC
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply Power supply consumption Operating Temperature	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0) 5213009760102 2 x +12VDC 1.8A max. 0 °C to 40 °C
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply Power supply consumption Operating Temperature Storage Temperature	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0) 5213009760102 2 x +12VDC 1.8A max. 0 °C to 40 °C -10 °C to +70 °C
Programming Interface Ethernet webserver Speed Connector Browser compatibility EAN-13	Yes, embedded webserver 10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0) 5213009760102 2 x +12VDC 1.8A max. 0 °C to 40 °C





FTA series

MLF-101

4 x DVB-S/S2/S2X to 4 x DVB-T/C

The MLF-101 is a very powerful, all-in-one device, able to receive up to four (4) independent satellite (DVB-S/S2/S2X) signals supporting multistream reception and convert them in 4 x DVB-T/C RF output channels. and convert them in four (4) x DVB-T/C RF output channels. It supports "pool" technology, meaning that the user is able to select any program from any of the 4 inputs and assign it to any of the four (4) RF providing great flexibility. The embedded web server of the MLF-101 provides a very friendly user interface as well as the ability of remote or local control of the device via Ethernet.

Its small size and its powerful features renders the MLF-101 the ideal solution in cases we want to distribute FTA (Free-To-Air) TV programs coming from (DVB-S/S2/S2X) sources to a CATV installation using the DVB-T/C.

Features

- 4 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- 4 x RF output DVB-T/C (software selectable)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- · Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over



PID filtering



FlexCAM



Pool Technology



Multi-Standard





Input Type	2 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	7502130 MH2 75Ω - F. female
Connector	7317 - 1 , lefflate
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK. 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
Symbotrate	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
Code rate	(QPSK- automatic)
	3/5. 2/3. 3/4. 5/6. 8/9. 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
Spectrat inversion	neverse, non-reverse (automatic)
DVB-S2X	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK)
	1 - 30 MBaud (8PSK)
Roll off factor	From 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	0.0, 2.0, 0.1, 0.0, 0.7, 7.10

ITU-T J.83	
Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol rate	1-7.2 Ms/s
RF Output	
Туре	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB
Transport Stream Processing	
Services	User selection by service
Sel vices	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode:	Yes
Programming Interface	
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge
	etc.(Must support HTML v5.0)
EAN-13	
Code	5213009760119
General	
Power Supply	2 x +12VDC
Power supply consumption	1.8A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg

Output Specifications

DVB-T

EN 300-744
5, 6, 7, 8 MHz
2K, 8K
QPSK, 16QAM, 64QAM
1/4, 1/8, 1/16, 1/32
1/2, 2/3, 3/4, 5/6, 7/8





FTA series

MLF-200

4 x DVB-S/S2/T/T2/C to IP

The MLF-200 is a very powerful, all-in-one device, able to receive up to four (4) independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in IPTV streaming using UDP/RTP protocols multicast/unicast. Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the four (4) inputs and assign it to any of the four (4) IP outputs providing great flexibility.

The embedded web server of the MLF-200 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLF-200 the ideal solution in cases we want to distribute FTA (Free-To-Air) coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using IP technology.

Features

- 4 x independent multi-standard inputs DVB-S/S2/T/T2/C
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- Dual power supplies offering redundancy mode
- PID Filtering
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty







Input	
Туре	4 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
_,	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-T	
Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 / T2 Lite	
Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K
	(Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
	1/2, 3/5, 2/3, 3/4, 4/5, 5/6

ITU-T J.83	
Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Output Specifications	
Transport Stream Processing	
Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
PCR	re-stamping
Bypass Mode:	Yes
IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
7,6-	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)
Programming Interface	Versions beautiful describer and an
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc. (Must support HTML v5.0)
EAN-13	
Code	5213009760164
General	
Power Supply	2 x +12VDC
Power supply consumption	1.8A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg





FTA series

MLF-201

4 x DVB-S/S2/S2X to IP

The MLF-201 is a very powerful, all-in-one device, able to receive up to four (4) independent satellite (DVB-S/S2/S2X) signals supporting multistream reception and convert them in IPTV streaming using UDP/RTP protocols multicast/unicast. Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the four (4) inputs and assign it to any of the four (4) IP outputs providing great flexibility.

The embedded web server of the MLF-201 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLF-201 the ideal solution in cases we want to distribute FTA (Free-To-Air) coming from satellite (DVB-S/S2/S2X) sources to a CATV installation using IP technology.

Features

- 4 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- Dual power supplies offering redundancy mode
- PID Filtering
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty







Input	
Туре	4 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-S2X	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK)
	1 - 30 MBaud (8PSK)
Roll off factor	Апо́ 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)

Output Specifications

Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
PCR	re-stamping
Bypass Mode:	Yes
IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)
•	Yes, embedded webserver
•	
Programming Interface Ethernet webserver Speed	Yes, embedded webserver
Ethernet webserver	
Ethernet webserver Speed Connector	10/100 Mbps
Ethernet webserver Speed	10/100 Mbps RJ45
Ethernet webserver Speed Connector	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera,
Speed Connector Browser compatibility	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera,
Ethernet webserver Speed Connector Browser compatibility EAN-13	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0)
Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0)
Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0) 5213009760171
Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0) 5213009760171 2 x +12VDC
Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply Power supply consumption	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc. (Must support HTML v5.0) 5213009760171 2 x +12VDC 1.8A max.
Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply Power supply consumption Operating Temperature	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0) 5213009760171 2 x +12VDC 1.8A max. 0 °C to 40 °C
Ethernet webserver Speed Connector Browser compatibility EAN-13 Code General Power Supply Power supply consumption Operating Temperature Storage Temperature	10/100 Mbps RJ45 Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0) 5213009760171 2 x +12VDC 1.8A max. 0 °C to 40 °C -10 °C to +70 °C





FTA series

MLF-300

4 x DVB-S/S2/T/T2/C to 4 x DVB-T/C + IP

The MLF-300 is a very powerful, all-in-one device, able to receive up to four (4) independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in four (4) x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast. It supports "pool" technology, meaning that the user is able to select any program from any of the 4 inputs and assign it to any of the four (4) RF or IP outputs providing great flexibility.

The embedded web server of the MLF-300 provides a very friendly user interface as well as the ability of remote or local control of the device via Ethernet.

Its small size and its powerful features renders the MLF-300 the ideal solution in cases we want to distribute FTA (Free-To-Air) TV programs coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using the DVB-T/C or IP technology.

Features

- 4 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Input -	(D)/D C/C0 T-T0/O
Туре	4 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
5545 . 4.5	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-T	
Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	
Constellation	2K, 8K QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
COUC Tale	112, 213, 314, 310, 110
DVB-T2 / T2 Lite	EN 200 755 V4 2 4
Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K
	(Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
ITU-T J.83	
Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM

Output Specifications

DVB-T		
Standard	EN 300-744	
Bandwidth	5, 6, 7, 8 MHz	
Mode	2K, 8K	
Constellation	QPSK, 16QAM, 64QAM	
Guard interval	1/4, 1/8, 1/16, 1/32	
Code rate	1/2, 2/3, 3/4, 5/6, 7/8	
ITU-T J.83		
Standard	Annex A(DVB-C)	

Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	1-7.2 Ms/s

RF Output	
Type	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Leve	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output Ioon-through Ioss	<1dB

Transport Stream Processing	
Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode:	Yes

IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max Bitrate	480Mbps max (in IP only mode)

Programming Interface	
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc. (Must support HTML v5.0)

EAN-13		
Code	5213009760225	
General		
Power Supply	2 x +12VDC	
Power supply consumption	1.8A max.	
Operating Temperature	0 °C to 40 °C	
Storage Temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	235 x 115 x 48 mm	
Weight	0.45 Ka	





FTA series

MLF-301

4 x DVB-S/S2/S2X to 4 x DVB-T/C + IP

The MLF-301 is a very powerful, all-in-one device, able to receive up to four (4) independent satellite (DVB-S/S2/S2X) signals supporting multistream reception and convert them in four (4) x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast. It supports "pool" technology, meaning that the user is able to select any program from any of the 4 inputs and assign it to any of the four (4) RF or IP outputs providing great flexibility.

The embedded web server of the MLF-301 provides a very friendly user interface as well as the ability of remote or local control of the device via Ethernet.

Its small size and its powerful features renders the MLF-301 the ideal solution in cases we want to distribute FTA (Free-To-Air) TV programs coming from satellite coming from (DVB-S/S2/S2X) sources to a CATV installation using the DVB-T/C or IP technology.

Features

- 4 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Standard Bandwidth

Constellation

Code rate

Guard interval

Mode

Input	
Туре	2 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-S2X	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK)
	1 - 30 MBaud (8PSK)
Roll off factor	From 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Output Specifications	
DVB-T	

EN 300-744

5, 6, 7, 8 MHz 2K, 8K

QPSK, 16QAM, 64QAM

1/4, 1/8, 1/16, 1/32 1/2, 2/3, 3/4, 5/6, 7/8

ITU-T J.83	
Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol rate	1-7.2 Ms/s
RF Output	(BE .: !:
Type	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB
Transport Stream Processing	
Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode:	Yes
дуразэ Моие:	165
IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)
Dunamania a Interfere	
Programming Interface Ethernet webserver	Van amalaadadadaadaa
	Yes, embedded webserver 10/100 Mbps
Speed	•
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera
	Edge etc. (Must support HTML v5.0)
EAN-13	
Code	5213009760232
General	
	2 x +12VDC
Power Supply	
Power supply consumption	1.8A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Woight	0 /E I/a

0.45 Kg



Weight



CL series

MLC-100

2 x DVB-S/S2/T/T2/C + 2 x FlexCAM to 4 x DVB-T/C

The MLC-100 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in 4 x DVB-T/C RF output channels. The MLC-100 supports two (2) Cl interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) RF outputs providing great flexibility.

The embedded web server of the MLC-100 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-100 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using the DVB-T/C.

Features

- 2 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 2x CI interfaces using FlexCAM technology
- 4 x RF output DVB-T/C (software selectable)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Input	
Туре	2 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-T	
Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
D1/D T0 / T0 ! !!	
DVB-T2 / T2 Lite Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K
===	(Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
ITU-T J.83	America (DVD O) D(UC colde) C
Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM

Output Specifications

DVB-T	
Standard	EN 300-744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
ITU-T J.83	
Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol rate	1-7.2 Ms/s
RF Output	
Туре	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB
T	
Transport Stream Processing Services	Harmanian bu assiss
Services	User selection by service
A. A. w E. D	names
Automatic Regeneration NIT/SDT	PAT, CAT, SDT, PMTs, EITs tables
PCR	Pass-through, custom, automatic
	re-stamping Yes
LCN support	
Bypass Mode:	Yes
Programming Interface	
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
browser corribationity	Edge etc. (Must support HTML v5.0)
	Luge etc. (Must support 111ML V3.0)
EAN-13	Luge etc. (Must support 111ML V3.0)

2 x +12VDC 1.8A max.

Up to 90% 235 x 115 x 48 mm

0.45 Kg

0 °C to 40 °C -10 °C to +70 °C



Power Supply

Humidity

Dimensions Weight

Power supply consumption
Operating Temperature
Storage Temperature



CL series

MLC-101

2 x DVB-S/S2/S2X + 2 x FlexCAM to 4 x DVB-T/C

The MLC-101 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2/S2X signals supporting multistream reception and convert them in 4 x DVB-T/C RF output channels. The MLC-101 supports two (2) CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) RF outputs providing great flexibility.

The embedded web server of the MLC-101 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-101 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2/S2X) sources to a CATV installation using the DVB-T/C.

Features

- 2 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- 2x CI interfaces using FlexCAM technology
- 4 x RF output DVB-T/C (software selectable)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- · Local or remote control via webserver
- · Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Input	
Туре	2 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
opec. at inversion	neverse, nen reverse (autemane)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-S2X	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK)
	1 - 30 MBaud (8PSK)
Roll off factor	Апо́ 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)

110 10.00	
Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol rate	1-7.2 Ms/s

ITU-T J.83

RF Output	
Туре	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output Ioon-through Ioss	<1dB

Transport Stream Processing	
Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode:	Yes

Programming Interface	
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc. (Must support HTML v5.0)

EAN-13		
Code	5213009760096	
General		
Power Supply	2 x +12VDC	
Power supply consumption	1.8A max.	
Operating Temperature	0 °C to 40 °C	
Storage Temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	235 x 115 x 48 mm	
Weight	0.45 Kg	

Output Specifications

EN 300-744
5, 6, 7, 8 MHz
2K, 8K
QPSK, 16QAM, 64QAM
1/4, 1/8, 1/16, 1/32
1/2, 2/3, 3/4, 5/6, 7/8





CL series

MLC-200

2 x DVB-S/S2/T/T2/C + 2 x FlexCAM to IP

The MLC-200 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in IPTV streaming using UDP/RTP protocols multicast/unicast. The MLC-200 supports two (2) CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) IP outputs providing great flexibility.

The embedded web server of the MLC-200 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-200 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using IP technology.

Features

- 2 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 2x CI interfaces using FlexCAM technology
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- Dual power supplies offering redundancy mode
- PID Filtering
- Local or remote control via webserver
- · Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Input	2 DVD C/C2/T/T2/C
Type	2 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2 118900MHz DVB-T/T2/C
Connector	118900MHz DVB-T/T2/C 75Ω - F. female
Connector	73t1 - F, lemate
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
•	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-T	
Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 / T2 Lite	
Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K
Hous	(Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6

ITU-T J.83	
Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Output Specifications	
Transport Stream Processing	
Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
PCR	re-stamping
Bypass Mode:	Yes
ID Characteristics	
IP Streaming	
IPTS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max.
Programming Interface	
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
Diowaci companianty	Edge etc. (Must support HTML v5.0)
EAN-13	
Code	5213009760140
General	
Power Supply	2 x +12VDC
Power supply consumption	1.8A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm





CL series

MLC-201

2 x DVB-S/S2/S2X + 2 x FlexCAM to IP

The MLC-201 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2/S2X), signals supporting multistream reception and convert them in IPTV streaming using UDP/RTP protocols multicast/unicast. The MLC-201 supports two (2) CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) IP outputs providing great flexibility.

The embedded web server of the MLC-201 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-201 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV

programs coming from satellite (DVB-S/S2/S2X) sources to a CATV installation using IP technology.

Features

- 2 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- 2x CI interfaces using FlexCAM technology
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- Dual power supplies offering redundancy mode
- PID Filtering
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Input	
Туре	2 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic) 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-S2X	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK) 1 - 30 MBaud (8PSK)
Roll off factor	Апо́ 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic) 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)

Output Specifications

V
Yes
UDP / RTP (Multicast/Unicast)
1Gbit
Yes, v2, v3
MPTS (up to 4 TS)
SPTS (up to 64 programs)
480Mbps max.
Yes, embedded webserver
10/100 Mbps
RJ45
Chrome, Firefox, Safari, Opera,
Edge etc. (Must support HTML v5.0)
5213009760157
2 x +12VDC
1 8A max
0 °C to 40 °C
-10 °C to +70 °C
Up to 90% 235 x 115 x 48 mm
200 % 110 % 10 111111
0.45 Kg





CL series

MLC-300

2 x DVB-S/S2/T/T2/C + 2 x FlexCAM to 4 x DVB-T/C or IP

The MLC-300 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in 4 x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast. The MLC-300 supports two (2) CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) RF or IP outputs providing great flexibility.

The embedded web server of the MLC-300 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-300 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using the DVB-T/C or IP technology.

Features

- 2 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 2x CI interfaces using FlexCAM technology
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- · Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard







Input	
Туре	2 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
	1 - 55 MBaud
Symbol Rate	
Roll off factor Code Rate	0.2, 0.25, 0.35 1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
Spectrat inversion	Reverse, Non-Teverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
-,	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-T	
Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T2 / T2 Lite	
Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K
	(Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
ITU-T J.83	
Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM

Output Specifications

-	ים	۷	В	Ξ.	т

Standard	EN 300-744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8

ITU-T J.83

Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	1-7.2 Ms/s

RF Output

Туре	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBμV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB

Transport Stream Processing

Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode	Yes

IP Streaming

IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0)

EAN-13 Code

General		
Power Supply	2 x +12VDC	
Power supply consumption	1.8A max.	
Operating Temperature	0 °C to 40 °C	
Storage Temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	235 x 115 x 48 mm	
Weight	0.45 Kg	

5213009760201





CL series

MLC-301

2 x DVB-S/S2/S2X + 2 x FlexCAM to 4 x DVB-T/C or IP

The MLC-301 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2/S2X) signals supporting multistream reception and convert them in 4 x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast. The MLC-301 supports two (2) CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) RF or IP outputs providing great flexibility.

The embedded web server of the MLC-301 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-301 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2/S2X) sources to a CATV installation using the DVB-T/C or IP technology.

Features

- 2 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- 2x CI interfaces using FlexCAM technology
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over



PID filtering



FlexCAM



Pool Technology



Multi-Standard



E/M Shielding



DVB-T

Standard Bandwidth Mode

Constellation

Guard interval Code rate

уре	2 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	$0.65V \pm 0.35V$
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
•	
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVB-S2X	
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK)
	1 - 30 MBaud (8PSK)
Roll off factor	From 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)

EN 300-744 5, 6, 7, 8 MHz

QPSK, 16QAM, 64QAM

1/4, 1/8, 1/16, 1/32 1/2, 2/3, 3/4, 5/6, 7/8

2K, 8K

2

Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol rate	1-7.2 Ms/s

RF Output

4 x RF out in adjacent channels
110950 MHz (1 Hz step)
90dBµV
75Ω - F, female
020dB
>42dB
<1dB

Transport Stream Processing

Services	User selection by service
	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode	Yes

IP Streaming

IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge etc (Must support HTML v5.0)

EAN-13

Code	5213009760218

General

Power Supply	2 x +12VDC	
Power supply consumption	1.8A max.	
Operating Temperature	0 °C to 40 °C	
Storage Temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	235 x 115 x 48 mm	
Weight	0.45 Ka	





CL series

MLC-301

2 x DVB-S/S2/S2X + 2 x FlexCAM σε 4 x DVB-T/C ή IP

The MLC-301 is a very powerful, all-in-one device, able to receive up to two (2) independent satellite (DVB-S/S2/S2X) signals supporting multistream reception and convert them in 4 x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast. The MLC-301 supports two (2) CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module). Moreover, it supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign it to any of the four (4) RF or IP outputs providing great flexibility.

The embedded web server of the MLC-301 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLC-301 the ideal solution in cases we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2/S2X) sources to a CATV installation using the DVB-T/C or IP technology.

Features

- 2 x independent multi-standard inputs DVB-S/S2/S2X
- Multi-stream support
- 2x CI interfaces using FlexCAM technology
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- PID Filtering
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over RF & IP



PID filtering



FlexCAM



Pool Technology



Multi-Standard



E/M Shielding



Input	
Туре	2 x DVB-S/S2/S2X
Frequencies	9502150 MHz
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
5545 . 4.5	(QPSK- automatic)
	3/5. 2/3. 3/4. 5/6. 8/9. 9/10
	(8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)
DVD COV	
DVB-S2X	ENIOCO 2017 1 1/1 / 1
Standard	EN302 307-1 V1.4.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 45 MBaud (QPSK)
D.II. (((1 - 30 MBaud (8PSK)
Roll off factor	From 0.05 to 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10
	(QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10
	(8PSK- automatic)

ITU-T J.83 Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K. 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	1-7.2 Ms/s
RF Output	
Туре	4 x RF out in adjacent channels
Output Frequencies	110950 MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB
Transport Stream Processing	
Services	User selection by service
Services	names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode	Yes
рураз Mode	res
IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
**	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)
	, , , , , , , , , , , , , , , , , , , ,
Programming Interface	
Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc (Must support UTML v5.0)

Edge etc.(Must support HTML v5.0)

5213009760218

-10 °C to +70 °C Up to 90%

235 x 115 x 48 mm

2 x +12VDC

1.8A max. 0 °C to 40 °C

0.45 Kg

Output Specifications

515 .	
Standard	EN 300-744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8



EAN-13

General

Humidity Dimensions

Weight

Power Supply

Power supply consumption
Operating Temperature

Storage Temperature

Code



HD series

MLH-100

2 x HDMI to 2 x DVB-T/C

The MLH-100 is a very powerful, all-in-one mini headend device, able to receive up to two (2) HD signals and convert them either in two (2) \times DVB-T/C RF output.

It supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign them to any of the two (2) RF outputs providing great flexibility.

The embedded web server of the MLH-100 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-100 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray to a CATV installation using the DVB-T/C.

Features

- 2 x HD inputs
- HDCP v1.4 support
- 2 x RF output DVB-T/C (software selectable)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5-year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over



PID filtering



FlexCAM



Pool Technology



Multi-Standard



E/M Shielding





HD Ir	nput
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Type	2 x HD inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4

Audio

Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MDEG2 AAC AC3

H.264 encoder

II.204 CHCOGCI	
Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

Output Specifications

DVB-T

Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8

DVB-C

DAP-C	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol Rate	1-7.2 Ms/s

RF Output

Type	2 x RF out in adjacent channels
Output Frequencies	110950MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB

Transport Stream Processing

Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, Custom, Automatic
PCR	re-stamping
LCN support	Yes

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc. (Must support HTML v5.0)

EAN-13

Code	5213009760065

General

Power Supply	2 x +12VDC
Power supply consumption	2A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg





HD series

MLH-101

4 x HDMI to 4 x DVB-T/C

The MLH-101 is a very powerful, all-in-one mini headend device, able to receive up to four (4) HD signals and convert them either in four (4) x DVB-T/C RF output channels.

It supports "pool" technology, meaning that the user is able to select any program from any of the four (4) inputs and assign them to any of the four (4) RF outputs providing great flexibility. The embedded web server of the MLH-101 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-101 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray to a CATV installation using the DVB-T/C.

Features

- 4 x HD inputs
- HDCP v1.4 support
- 4 x RF output DVB-T/C (software selectable)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5-year warranty



Wall mount



LAN Interface



Dual Power Supply



Hybrid IP-RF



EPG over



PID filtering



FlexCAM



Pool Technology



Multi-Standard



E/M Shielding





HD	Input
----	-------

Type	4 x HD inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4

Audio

Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3

H.264 encoder

Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

Output Specifications

DVB-T

Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8

DVB-C	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol Rate	1-7.2 Ms/s

RF Output

Туре	4 x RF out in adjacent channels
Output Frequencies	110950MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB

Transport Stream Processing

Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, Custom, Automatic
PCR	re-stamping
LCN support	Yes

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge
	etc. (Must support HTML v5.0)

EAN-13

Code	5213009760072
oouc	0210007700072

General

o chief at	
Power Supply	2 x +12VDC
Power supply consumption	2A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg





HD series

MLH-200

2 x HDMI to IP

The MLH-200 is a very powerful, all-in-one mini headend device, able to receive up to two (2) HD signals and convert them in IPTV streaming using UDP/RTP protocols multicast/unicast. It supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign them to any of the two (2) IP outputs providing great flexibility. The embedded web server of the MLH-200 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-200 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray using IPTV technology.

Features

- 2 x HD inputs
- HDCP v1.4 support
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- Dual power supplies offering redundancy mode
- Local or remote control via webserver
- · Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5-year warranty







HD	

Type	2 x HD inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4

Audio

Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3

H.264 encoder

Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

Output Specifications

Transport Stream Processing

Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, Custom, Automatic
PCR	re-stamping
LCN support	Yes

IP Streaming

IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit (480 Mbps in IP only mode)
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 4 HD programs)
Max. Bitrate	480Mbps max.

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge etc.
	(Must support HTML v5.0)

EAN-13

Code	5213009760126

Genera

General	
Power Supply	2 x +12VDC
Power supply consumption	2A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg





HD series

MLH-201

4 x HDMI to IP

The MLH-201 is a very powerful, all-in-one mini headend device, able to receive up to four (4) HD signals and convert them either in IPTV streaming using UDP/RTP protocols multicast/unicast.

It supports "pool" technology, meaning that the user is able to select any program from any of the four (4) inputs and assign them to any of the four (4) IP outputs providing great flexibility. The embedded web server of the MLH-201 provides a very

friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-201 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray using IPTV technology.

Features

- 4 x HD inputs
- HDCP v1.4 support
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- Dual power supplies offering redundancy mode
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5-year warranty





Input

Type	4 x HD inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4

Audio

Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3

H.264 encoder

Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

Output Specifications

Transport Stream Processing

Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, Custom, Automatic
PCR	re-stamping
LCN support	Yes

IP Streaming

Max. Bitrate	480Mbps max.
	SPTS (up to 4 HD programs)
Туре	MPTS (up to 4 TS)
IGMP support	Yes, v2, v3
Speed	1Gbit (480 Mbps in IP only mode)
Protocol	UDP / RTP (Multicast/Unicast)
IPTS Out	Yes
•	

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc (Must support HTML v5.0)

EAN-13

Code	5213009760133

General

oenera.	
Power Supply	2 x +12VDC
Power supply consumption	2A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg





HD series

MLH-300

2 x HDMI to 2 x DVB-T/C + IP

The MLH-300 is a very powerful, all-in-one mini headend device, able to receive up to two (2) HD signals and convert them either in two (2) x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast.

It supports "pool" technology, meaning that the user is able to select any program from any of the two (2) inputs and assign them to any of the two (2) RF or IP outputs providing great flexibility.

The embedded web server of the MLH-300 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-300 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray to a CATV installation using the DVB-T/C or IPTV technology.

Features

- 2 x HD inputs
- HDCP v1.4 support
- 2 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5-year warranty





HD	Inp	ut
----	-----	----

Туре	2 x HD inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4

Audio

Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3

H.264 encoder

Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

Output Specifications

DVB-T

5, 6, 7, 8 MHz
2K, 8K
QPSK, 16QAM, 64QAM
1/4, 1/8, 1/16, 1/32
1/2, 2/3, 3/4, 5/6, 7/8

DVB-C Bandwidth

DVB-C	
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol Rate	1-7.2 Ms/s

RF Output

Туре	2 x RF out in adjacent channels
Output Frequencies	110950MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB

Transport Stream Processing

Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, Custom, Automatic
PCR	re-stamping
LCN support	Yes

IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit (480 Mbps in IP only mode)
IGMP support	Yes, v2, v3
Туре	MPTS (up to 4 TS)
	SPTS (up to 4 HD programs)
May Ritrate	/80Mhns may

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc. (Must support HTML v5.0)

EAN-13

5213009760188

General

Power Supply	2 x +12VDC
Power supply consumption	2A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg





HD series

MLH-301

4 x HDMI to 4 x DVB-T/C + IP

The MLH-301 is a very powerful, all-in-one mini headend device, able to receive up to four (4) HD signals and convert them either in four (4) \times DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast.

It supports "pool" technology, meaning that the user is able to select any program from any of the four (4) inputs and assign them to any of the four (4) RF or IP outputs providing great flexibility.

The embedded web server of the MLH-301 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-301 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray to a CATV installation using the DVB-T/C or IPTV technology.

Features

- 4 x HD inputs
- HDCP v1.4 support
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 42dB
- Dual power supplies offering redundancy mode
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- Ultra-compact size
- 5-year warranty





HD Input	
Туре	4 x HD inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes. v1.4

Audio	
Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3

H.264 encoder	
Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

Output Specifications

Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8

DVB-C

Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM,
	256QAM
Symbol Rate	1-7.2 Ms/s

RF Output

Type	4 x RF out in adjacent channels
Output Frequencies	110950MHz (1 Hz step)
Output Level	90dBµV
Connector	75Ω - F, female
Output Attenuator	020dB
MER	>42dB
Output loop-through loss	<1dB

Transport Stream Processing Services

ir anaport ou cam i roccasing	
Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, Custom, Automatic
PCR	re-stamping
LCN support	Yes
IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit (480 Mbps in IP only mode)
IGMP support	Yes, v2, v3
Type	MPTS (up to 4 TS)
	SPTS (up to 4 HD programs)
Max. Bitrate	480Mbps max.

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera,
	Edge etc.(Must support HTML v5.0)

EAN-13

5213009760195

General

Power Supply	2 x +12VDC
Power supply consumption	2A max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	0.45 Kg











Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



TERRESTRIAL

 $\textbf{Modulators} \cdot \textbf{Amplifiers} \cdot \textbf{IR} \ \textbf{RX/TX} \cdot \textbf{Attenuators}$



MODULATORS

The HDMOD series of HDMI DVB-T modulators provides the ability to distribute any HDMI source, i.e. coming from DVD or Blueray player over RF DVB-T.





HDMOD-4

1 x HDMI to DVB-T (COFDM)

The HDMOD-4 is a high-quality DVB-T "Home" modulator. It receives one HDMI signal as input and converts it into one RF DVB-T channel output. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HDMOD-4 an ideal solution for distributing SD/HD digital signals received from any device with an HDMI output (e.g. a DVD player, STB or camera in a CATV network using the DVB-T technology).

The user has the ability to control the device remotely using a Bluetooth interface by downloading and using the appropriate application from Google play or IOS App Store for free.

Finally, the HDMOD-4's small size and metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Features:

- High quality and performance
- Very clean RF spectrum
- HDMI input
- MER value ~ 35dB
- RF output frequencies 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps
- HDCP support
- Bluetooth interface
- Very small size
- External power supply



Technical Specifications

Туре	1 x HDMI in
HDMI loop-through	No
Connector	1 x HDMI Type A
Video coding	MPEG-4 AVC/H.264
Profile	High profile 4.0
Resolution	1920x1080-30p for HDMI
HDCP support	Yes
Audio	HDMI & Mono/Stereo
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Level	0.5Vpp to 1.0Vpp adjustable
H.264 Encoder	
Standard	MPEG-4 AVC/H.264
Bit Rate	1 – 19 Mb/s adjustable
Configurable parameters	Service Name, Service ID, Video
	PID, Audio PID,PMT PID
Transport Stream Processing	PID, Audio PID,PMT PID
Transport Stream Processing Automatic regeneration	PID, Audio PID,PMT PID NIT, PAT, CAT, SDT, PMTs, EITs tables
	NIT, PAT, CAT, SDT, PMTs, EITs

DVB-T Output

LCN Providers

DVB-1 Output	
Standard	EN 300 744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2 2/3 3/4 5/4 7/9

Nordig, ITC/UK, EICTA/Europe,

New Zealand

RF Output

Туре	RF DVB-T (COFDM)
Output frequencies	470862 MHz
Output level	90dbµV max.
Connector	75Ω - F, female
Output attenuator	0, -10, -20dBm
MER	35dB (Typical)
Shoulder attenuation	>45dBc
Connectors	1 x F - female

Programming interface	via Bluetooth
	Requires version 4.0 and above
	ETSI EN 300 328 and EN 300 440
	Class 2 (Europe),
	FCC CFR47 Part 15 (US) and ARIB
	STD-TAA (Janan)

Platform support	Android version 5.1 and above
	iOS version 9.3 or above
	iPhone 4S or newer
	iPad 3rd gen or newer

5213009760010

EAN-13 Code

General	
Power supply	+12VDC
Power supply consumption	280 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	131.0 x 83.5 x 26.0 mm
Weight	0.20 Kg



HDMOD-5L

1 x HD (in/out) to DVB-T (COFDM)

The HDMOD-5L is a high-quality DVB-T "Home" modulator with HDMI loop-through circuit. It receives one HDMI as input and converts it into one RF DVB-T channel output as well as in HDMI out. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HDMOD-5L an ideal solution for distributing SD/HD digital signals received from any device (e.g. a DVD player, STB or camera) in a CATV network using the DVB-T technology.

The user has the ability to control the device remotely using a Bluetooth interface by downloading and using the appropriate application from Google play or IOS App Store for free.

Finally, the HDMOD-5L's small size and metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Features

- High quality and performance
- Very clean RF spectrum
- HDMI input
- HDMI loop-through circuit
- MER value ~ 35dB
- RF output frequencies 174...230 MHz & 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps
- HDCP support
- Bluetooth interface
- Very small size
- External power supply



Input Specifications

_	
Туре	1 x HDMI in & 1 x HDMI out
HDMI loop-through	Yes
Connector	1 x HDMI Type A
Video coding	MPEG-4 AVC/H.264
Profile	High profile 4.0
Resolution	1920x1080-30p for HDMI
HDCP support	Yes
Audio	HDMI
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate Level	64, 96, 128, 192, 256, 320, 384 kbps 0.5Vpp to 1.0Vpp adjustable
Level	0.5Урр to 1.0Урр adjustable
H.264 Encoder	
Standard	MPEG-4 AVC/H.264
Bit Rate	1 – 19 Mb/s adjustable
Configurable parameters	Service Name, Service ID, Video PID,
	Audio PID, PMT PID
Transport Stream Processing	
Automatic regeneration	NIT, PAT, CAT, SDT, PMTs, EITs tables
Configurable parameters	TS ID, Original Network ID,
	Network ID, Provider Name
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe,
	New Zealand
DVB-T Output	
Standard	EN 300 744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
RF Output	
Type	RF DVB-T (COFDM)
Output frequencies	174230 MHz & 470862 MHz
Output level	85dbµV max.
Connector	75Ω - F, female
Output attenuator	0, -10, -20dBm
MER	35dB (Typical)
Shoulder attenuation	>45dBc
Connectors	1 x F – female
Programming interface	via Bluetooth
	Requires version 4.0 and above
	ETSI EN 300 328 and EN 300 440 Class
	2 (Europe),
	FCC CFR47 Part 15 (US) and ARIB
	STD-T66 (Japan)
App information	Android version 5.1 and above
	iOS version 11 or above
EAN-13	
Code	5213009760904
General	
Rower supply	+12VDC
Power supply Power supply consumption	
Operating temperature	290 mA max. 0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	160.0 x 89.3 x 28.4 mm
Weight	0.25 Kg
TTCIGIT	0.23 Ng



HDMOD-5S

1 x HD (in/out) to DVB-T (COFDM) + IR TX

The HDMOD-5S is a high-quality DVB-T "Home" modulator with HDMI loop-through circuit. It receives one HDMI signal as input and converts it into one RF DVB-T channel output as well as in HDMI out. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HDMOD-5S an ideal solution for distributing SD/HD digital signals received from any device (e.g. a DVD player, STB or camera) in a CATV network using the DVB-T technology.

The user has the ability to control the device remotely using a Bluetooth interface by downloading and using the appropriate application from Google play or IOS App Store for free.

Finally, the HDMOD-5S's small size and metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Features

- High quality and performance
- Very clean RF spectrum
- HDMI input
- RF & HDMI loop-through circuit
- MER value ~ 35dB
- RF output frequencies 174...230 MHz & 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps
- HDCP support
- IR support
- Bluetooth interface
- Very small size
- External power supply



Input Specifications

Input Specifications	
Туре	1 x HDMI in & 1 x HDMI out
HDMI loop-through	Yes
Connector	1 x HDMI Type A
Video coding	MPEG-4 AVC/H.264
Profile	High profile 4.0
Resolution HDCP support	1920x1080-30p for HDMI Yes
Audio	HDMI
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Level	0.5Vpp to 1.0Vpp adjustable
H.264 Encoder	
Standard	MPEG-4 AVC/H.264
Bit Rate	1 – 19 Mb/s adjustable
Configurable parameters	Service Name, Service ID, Video PID,
	Audio PID, PMT PID
Transport Stream Processing	
Automatic regeneration	NIT, PAT, CAT, SDT, PMTs, EITs tables
Configurable parameters	TS ID, Original Network ID,
<u> </u>	Network ID, Provider Name
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe,
	New Zealand
DVB-T Output	
Standard	EN 300 744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
RF Output	
Туре	RF DVB-T (COFDM)
Output frequencies	174230 MHz & 470862 MHz
Output level	85dbµV max.
Connector	75Ω - F, female
Output attenuator	0, -10, -20dBm
MER Shoulder attenuation	35dB (Typical) >45dBc
Connectors	1 x F – female
IR Transmitter	
Output frequency	10.7MHz
Working frequencies	5862MHz
Modulation Type	ASK
Insertion Loss	<1dB
IR Emitter cable	
IR Frequency range	30 to 60KHz
IR Wavelength	940nm
IR Distance	15-20m
Length	1m
Connector	3.5mm Stereo Mini-jack
Programming interface	via Bluetooth
	Requires version 4.0 and above
	ETSI EN 300 328 and EN 300 440 Class
	2 (Europe),
	FCC CFR47 Part 15 (US) and ARIB
Platform support	STD-T66 (Japan) Android version 5.1 and above
Platform support	iOS version: 9.3 or above
	iPhone: 4S or newer
	iPad: 3rd gen or newer
FAN 12	
EAN-13 Code	5213009760911
Coue	JZ13007/00711
General	
Power supply	+12VDC
Power supply consumption	290 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature Humidity	-10 °C to +70 °C Up to 90%
Dimensions	160.0 x 89.3 x 28.4 mm
Weight	0.25 Kg



HDMOD-5F

1 x HD (in/out) + A/V in to DVB-T (COFDM) + IR TX



The HDMOD-5L is a high-quality DVB-T "Home" modulator with HDMI loop-through circuit. It receives one HDMI as input and converts it into one RF DVB-T channel output as well as in HDMI out. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HDMOD-5L an ideal solution for distributing SD/HD digital signals received from any device (e.g. a DVD player, STB or camera) in a CATV network using the DVB-T technology.

The user has the ability to control the device remotely using a Bluetooth interface by downloading and using the appropriate application from Google play or IOS App Store for free.

Finally, the HDMOD-5L's small size and metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Input Specifications

Type	1 x HDMI in & 1 x CVBS & 1 x
	HDMI out
HDMI loop-through	Yes
Connector	1 x HDMI Type A 1 x RCA –
	Female (White, Red, Yellow)
Video coding	MPEG-4 AVC/H.264
Profile	High profile 4.0
Resolution	1920x1080-30p for HDMI
HDCP support	Yes
Audio	HDMI & Mono/Stereo
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Level:	0.5Vpp to 1.0Vpp adjustable
H.264 Encoder	
Standard	MPEG-4 AVC/H.264
Bit Rate	1 – 19 Mb/s adjustable
Configurable parameters	Service Name, Service ID,
	Video PID, Audio PID, PMT PID
Transport Stream Processing	
Automatic regeneration	NIT, PAT, CAT, SDT, PMTs, EITs
-	tables
Configurable parameters	TS ID, Original Network ID,
	Network ID, Provider Name
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe,
	New Zealand
DVB-T Output	
Standard	EN 300 744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8

Features

- High quality and performance
- Very clean RF spectrum
- CVBS & HDMI input
- RF & HDMI loop-through circuit
- MER value ~ 35dB
- RF output frequencies 174...230 MHz & 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps
- HDCP support
- IR support
- Bluetooth interface
- Very small size
- External power supply

RF Output	
Туре	RF DVB-T (COFDM)
Output frequencies	174230 MHz & 470862 MHz
Output level	85dbµV max.
Connector	75Ω - F, female
Output attenuator	0, -10, -20dBm
MER	35dB (Typical)
Shoulder attenuation	>45dBc
Connectors	1 x F – female
ID T	
IR Transmitter	10.7MHz
Output frequency	–
Working frequencies	5862MHz ASK
Modulation Type	=
Insertion Loss	<1dB
IR Emitter cable	
IR Frequency range	30 to 60KHz
IR Wavelength	940nm
IR Distance	15-20m
Length:	1m
Connector:	3.5mm Stereo Mini-jack
Programming interface	via Bluetooth
.	Requires version 4.0 and above
	ETSI EN 300 328 and EN 300 440 Clas
	2 (Europe),
	FCC CFR47 Part 15 (US) and ARIB
	STD-T66 (Japan)
Platform support	Android version 5.1 and above
	iOS version: 9.3 or above
	iPhone: 4S or newer
	iPad: 3rd gen or newer
EAN 40	
EAN-13	E0100007/0000
Code	5213009760928
General	
Power supply	+12VDC
Power supply consumption	290 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	160.0 x 89.3 x 28.4 mm
Weight	0.25 Ka



HDMOD-6L

1 x HDMI (in/out) to DVB-T

The HDMOD-6L is a high-quality DVB-T "Home" modulator with HDMI loop-through circuit. It receives one HDMI as input and converts it into one RF DVB-T channel output as well as in HDMI out. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HDMOD-6L an ideal solution for distributing SD/HD digital signals received from any device (e.g. a DVD player, STB or camera) in a CATV network using the DVB-T technology.

The user has the ability to control the device by either using the onboard SSD (Seven Segment Display) interface and keypad for quick installation or by using the USB interface with the appropriate software accompanying the HDMOD-6L for advance programming.

Finally, the HDMOD-6L's metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Features

- High quality and performance
- Very clean RF spectrum
- HDMI input
- HDMI loop-through circuit
- MER value ~ 35dB
- RF output frequencies 174...230 MHz & 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps
- HDCP support
- Very small size
- External power supply
- USB interface for advanced setup



Input Specifications

Туре	1 x HDMI in 1 x HDMI out
HDMI loop-through	Yes
Connector	1 x HDMI Type A
Video coding	MPEG-4 AVC/H.264
Profile	High profile 4.0
Resolution	1920x1080-30p for HDMI
HDCP support	Yes
Audio	HDMI & Mono/Stereo
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Level	0.5Vpp to 1.0Vpp adjustable
H.264 Encoder	
Standard	MPEG-4 AVC/H.264
Bit Rate	1 – 19 Mb/s adjustable
Configurable parameters	Sarvica Nama Sarvica ID Vidas DID

Configurable parameters	Service Name, Service ID, Video PID, Audio PID. PMT PID
	Addio 1 10, 1 MT 1 10
Transport Stream Processing	
Automatic regeneration	NIT, PAT, CAT, SDT, PMTs, EITs tables

Configurable parameters	TS ID, Original Network ID, Network
	ID, Provider Name
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe, New
	Zealand
DVB-T Output	
6	EN 000 E//

DVB-T Output	
Standard	EN 300 744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8

RF Output	
Type	RF DVB-T (COFDM)
Output frequencies	174230 MHz & 470862 MHz
Output level	85dbμV max.
Connector	75Ω - F, female
Output attenuator	0, -10, -20dBm
MER	35dB (Typical)
Shoulder attenuation	>45dBc
Connectors	1 x F – female

Programming interface	Via Keypad and SSD display
	Via USB interface

EAN-13

Code	5213009760935
General	
Power supply	+12VDC
Power supply consumption	450 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	198.0 x 100 x 26.4 mm
Weight	0.26 Kg



HDMOD-6S

1 x HDMI (in/out) to DVB-T + IR TX

The HDMOD-6S is a high-quality DVB-T "Home" modulator with HDMI loop-through circuit. It receives one HDMI as input and converts it into one RF DVB-T channel output as well as in HDMI out. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HDMOD-6S an ideal solution for distributing SD/HD digital signals received from any device (e.g. a DVD player, STB or camera) in a CATV network using the DVB-T technology. Moreover, the HDMOD-6S has an embedded IR transmitter circuit to transfer the IR signal of a remote control over the coaxial network within a CATV installation. The user has the ability to control the device by either using the onboard SSD (Seven Segment Display) interface and keypad for quick installation or by using the USB interface with the appropriate software accompanying the HDMOD-6S for advance programming.

Finally, the HDMOD-6S's metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Features

- High quality and performance
- Very clean RF spectrum
- HDMI input
- RF loop-through circuit
- HDMI loop-through circuit
- MER value ~ 35dB
- RF output frequencies 174...230 MHz & 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps
- HDCP support
- Embedded IR transmitter
- Very small size
- External power supply
- USB interface for advanced setup



Input Specifications

input opecifications	
Туре	1 x HDMI in & 1 x HDMI out
HDMI loop-through	Yes
Connector	1 x HDMI Type A
Video coding	MPEG-4 AVC/H.264
Profile Resolution	High profile 4.0 1920x1080-30p for HDMI
HDCP support	Yes
Audio	HDMI & Mono/Stereo
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Level	0.5Vpp to 1.0Vpp adjustable
H.264 Encoder	
Standard	MPEG-4 AVC/H.264
Bit Rate	1 – 19 Mb/s adjustable
Configurable parameters	Service Name, Service ID, Video PID, Audio PID, PMT PID
	·
Transport Stream Processing	NIT DAT CAT CDT DAT- FIT-
Automatic regeneration	NIT, PAT, CAT, SDT, PMTs, EITs
Configurable parameters	tables TS ID, Original Network ID,
Comigurable parameters	Network ID, Provider Name
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe,
	New Zealand
DVB-T Output	
Standard	EN 300 744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
RF Output	
Туре	RF DVB-T (COFDM)
Output frequencies	174230 MHz & 470862 MHz
Output level	85dbµV max.
Connector	75Ω - F, female
Output attenuator	0, -10, -20dBm
MER	35dB (Typical)
Shoulder attenuation	>45dBc
Connectors	1 x F – female
RF input of IR Transmitter	E 20MIL
Working frequency	530MHz
Modulation type Sensitivity	ASK >45dBµV
Loop-through frequency	>4эавµv 5862MHz
Loop-through attenuation	5оодиги <1dB
RF Connector	F-female
IR Transmitter	
Working frequency	
TO KING IT EQUELICY	38 KH ₇
	38 KHz 940nm
Wavelength Distance	38 KHz 940nm 1.5m max.
Wavelength Distance	940nm 1.5m max.
Wavelength	940nm
Wavelength Distance IR Connector IR cable length	940nm 1.5m max. 3.5mm stereo mini-jack 1m
Wavelength Distance IR Connector	940nm 1.5m max. 3.5mm stereo mini-jack
Wavelength Distance IR Connector IR cable length	940nm 1.5m max. 3.5mm stereo mini-jack 1 m Via Keypad and SSD display
Wavelength Distance IR Connector IR cable length Programming interface	940nm 1.5m max. 3.5mm stereo mini-jack 1 m Via Keypad and SSD display
Wavelength Distance IR Connector IR cable length Programming interface EAN-13	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760942
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760942 +12VDC
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760942 +12VDC 450 mA max.
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption Operating temperature	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760942 +12VDC 450 mA max. 0 °C to 50 °C
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption Operating temperature Storage temperature	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760942 +12VDC 450 mA max. 0 °C to 50 °C -10 °C to +70 °C
Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption Operating temperature Storage temperature Humidity	940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760942 +12VDC 450 mA max. 0 °C to 50 °C -10 °C to +70 °C Up to 90%



HDMOD-6F

1 x HDMI (in/out)+A/V IN to DVB-T + IR TX

The HDMOD-6F is a high-quality DVB-T "Home" modulator with HDMI loop-through circuit. It receives one HDMI or one CVBS signal as input and converts it into one RF DVB-T channel output as well as in HDMI out. The excellent picture (Full HD 1920*1080-30p) and modulation quality (MER~35dB) renders the HD-MOD-6F an ideal solution for distributing SD/HD digital signals received from any device (e.g. a DVD player, STB or camera) in a CATV network using the DVB-T technology. Moreover, the HDMOD-6F has an embedded IR transmitter circuit to transfer the IR signal of a remote control over the coaxial network within a CATV installation.

The user has the ability to control the device by either using the onboard SSD (Seven Segment Display) interface and keypad for quick installation or by using the USB interface with the appropriate software accompanying the HDMOD-6F for advance programming.

Finally, the HDMOD-6F's metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidness.

Features

- High quality and performance
- Very clean RF spectrum
- CVBS & HDMI input
- RF loop-through circuit
- HDMI loop-through circuit
- MER value ~ 35dB
- RF output frequencies 174...230 MHz & 470...862 MHz
- H.264 HD encoder bitrate 1-19Mbps HDCP support
- Embedded IR transmitter
- Very small size
- External power supply
- USB interface for advanced setup



Input Specifications

Input Specifications	
Type	1 x HDMI in & 1 x CVBS + Audio L/R &
77-	1 x HDMI out
HDMI loop-through	Yes
Connector	1 x HDMI Type A
	1 x RCA – Female (White, Red, Yellow)
Video coding	MPEG-4 AVC/H.264
Profile	High profile 4.0
Resolution	1920x1080-30p for HDMI
HDCP support	Yes
Audio	HDMI & Mono/Stereo
Audio encoding Standard	MPEG2, ACC, AC3 MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Level	0.5Vpp to 1.0Vpp adjustable
H.264 Encoder	MDEO (ANGULO()
Standard Bit Rate	MPEG-4 AVC/H.264 1 – 19 Mb/s adjustable
Configurable parameters	Service Name, Service ID, Video PID,
osinigal azto parametero	Audio PID, PMT PID
	·
Transport Stream Processing	
Automatic regeneration	NIT, PAT, CAT, SDT, PMTs, EITs tables
Configurable parameters	TS ID, Original Network ID, Network ID, Provider Name
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe, New
	Zealand
DVB-T Output	EN 200 7//
Standard Bandwidth	EN 300 744 5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
RF Output	
RF Output Type	RF DVB-T (COFDM)
RF Output Type Output frequencies	RF DVB-T (COFDM) 174230 MHz & 470862 MHz
Type Output frequencies Output level	174230 MHz & 470862 MHz 85dbµV max.
Type Output frequencies Output level Connector	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female
Type Output frequencies Output level Connector Output attenuator	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm
Type Output frequencies Output level Connector Output attenuator MER	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female
Type Output frequencies Output level Connector Output attenuator	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical)
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F – female
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F – female 530MHz
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F – female 530MHz ASK
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F – female 530MHz ASK
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through attenuation RF Connector	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Working frequency	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency User In Transmitter Working frequency Loop-through attenuation RF Connector	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max.
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Understanding frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR Cable length	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Understanding frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR Cable length	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Understanding frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR Cable length	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Understand the management of th	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Lope-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR cable length Programming interface	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency IR Transmitter Working frequency Loop-through attenuation RF Connector IR Transmitter Working frequency IR Transmitter Working frequency Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760959 +12VDC 450 mA max.
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Understance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption Operating temperature	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760959 +12VDC 450 mA max. 0 °C to 50 °C
Type Output frequencies Output level Connector Output attenuator MER Shoulder attenuation Connectors RF input of IR Transmitter Working frequency Modulation type Sensitivity Loop-through frequency Loop-through attenuation RF Connector IR Transmitter Working frequency Wavelength Distance IR Connector IR cable length Programming interface EAN-13 Code General Power supply Power supply consumption Operating temperature Storage temperature	174230 MHz & 470862 MHz 85dbμV max. 75Ω - F, female 0, -10, -20dBm 35dB (Typical) >45dBc 1 x F - female 530MHz ASK >45dBμV 5862MHz <1dB F-female 38 KHz 940nm 1.5m max. 3.5mm stereo mini-jack 1m Via Keypad and SSD display Via USB interface 5213009760959 +12VDC 450 mA max. 0 °C to 50 °C -10 °C to +70 °C



AMPLIFIERS

Full band amplifiers offering great performance and ultimate electromagnetic shielding under the most difficult circumstances.





DA101

Electrical

Power supply

Dimensions

Weight

Power supply consumption

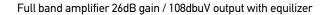
Operating temperature

Storage temperature Humidity

The DA101 is a full band amplifier with 26dB gain and 108dBuV RF output level, with a 20dB equalizer. It offers an exceptional RF performance and linearity, while it's metal case provides a robust desing and excellent electromagnetic shielding.







Electrical	
Frequency range	50860MHz
Output level IMD3 @-60dB (EN60728-3)	108dBuV
Output level IMD2 @-60dB (EN60728-3)	100dBuV
Return Loss	>13dB
Linearity	±1dB
Impedance	75Ω
Gain	
Gain	26dB ±1
Noise figure	6dB
Loss	
Attenuation	020dB
Equalization	015dB
Connectors	
Input/Output	1/1
Test point output	-
Connector	F-female
Operational	
LED indicator	Blue
IP Housing protection class	IP 20
Insulation class	II
EAN-13	
Code	5213009761710

+12VDC

170mA max. 0 °C to 40 °C"

Up to 90%

0.50 Kg

-10 °C to +70 °C

165 x 110 x 37 mm



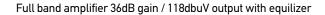


DA102

The DA102 is a full band amplifier with 36dB gain and 118dBuV RF output level, with a 20dB equalizer. It offers an exceptional RF performance and linearity, while it's metal case provides a robust desing and excellent electromagnetic shielding.







Electrical

Frequency range	100-1200MHz
Output level IMD3 @-60dB (EN60728-3)	118dBuV
Output level IMD2 @-60dB (EN60728-3)	114dBuV
Return Loss	>13dB
Linearity	±1dB
Impedance	75Ω
Gain	
Gain	36dB ±1

6dB

Noise figure Loss

Attenuation	020dB
Equalization	0 15dB

Connectors

Input/Output	1/1
Test point output	-
Connector	F-female

Operational

operational		
LED indicator	Blue	
IP Housing protection class	IP 20	
Insulation class	II	

EAN-13

5213009761727 Code

General		
Power supply	+12VDC	
Power supply consumption	290mA max.	
Operating temperature	0 °C to 40 °C"	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	165 x 110 x 37 mm	
Weight	0.50 Kg	



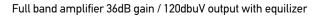


DA103

The DA103 is a full band amplifier with 36dB gain and 120dBuV RF output level, with a 20dB equalizer. It offers an exceptional RF performance and linearity, while it's metal case provides a robust desing and excellent electromagnetic shielding.







Electrica	ı

General

Humidity

Dimensions Weight

Power supply

Power supply consumption

Operating temperature

Storage temperature

Electricat	
Frequency range	100-1200MHz
Output level IMD3 @-60dB (EN60728-3)	120dBuV
Output level IMD2 @-60dB (EN60728-3)	115dBuV
Return Loss	>13dB
Linearity	±1dB
Impedance	75Ω
Gain	
Gain	36dB ±1
Noise figure	6dB
Loss	
Attenuation	020dB
Equalization	015dB
Connectors	
Input/Output	1/1
Test point output	1 @-20dB
Connector	F-female
Operational	
LED indicator	Blue
IP Housing protection class	IP 20
Insulation class	II
EAN-13	
Code	5213009761734

+12VDC

380mA max.

0 °C to 40 °C"

Up to 90% 175 x 110 x 37 mm

0.57 Kg

-10 °C to +70 °C





IR TX/RX

Distribute the IR signal of any remote control from any Set-Tob-Box in a coaxial installation, easy and without any interference.





LRI-107-038

IR receiver

Features

- High quality and performance
- Very clean RF spectrum without harmonics
- High RF output (113 dBµV)
- High IR signal reception sensitivity
- Support for F and IEC connectors
- Micro USB power connector
- Very small size
- External power supply

RF input	
Working frequency	10.7MHz
Modulation type	ASK
Output level	113dBµV
Loop-through frequency	5862MHz
Loop-through attenuation	<1dB
RF connector	F-female
IR output	
IR working frequency	38 KHz
IR distance	Up to 10m.
IR connector	3.5mm stereo mini-jack
EAN-13	
Code	5213009761390
General	
General Power supply	+5VDC
•••••	+5VDC USB female micro
Power supply	
Power supply Connector	USB female micro
Power supply Connector Power consumption	USB female micro 0.15A max.
Power supply Connector Power consumption Operating temperature	USB female micro 0.15A max. 0 °C to 50 °C
Power supply Connector Power consumption Operating temperature Storage temperature	USB female micro 0.15A max. 0 °C to 50 °C -10 °C to +70 °C
Power supply Connector Power consumption Operating temperature Storage temperature Humidity	USB female micro 0.15A max. 0 °C to 50 °C -10 °C to +70 °C U p to 90%



LTI-038

IR transmitter

Features

- High quality and performance
- Very clean RF spectrum without harmonics
- High RF output (113 dBµV)
- High IR signal reception sensitivity
- Support for F and IEC connectors
- Micro USB power connector
- Very small size
- External power supply

RF input	
Working frequency	10.7MHz
Modulation type	ASK
Output level	45dBµV
Loop-through frequency	5862MHz
Loop-through attenuation	<1dB
RF connector	F-female
IR output IR working frequency	38 KHz
IR distance	1.5m max.
IR connector	3.5mm stereo mini-jack
EAN-13	
Code	5213009761383
General	
D .	E) (DO

General	
Power supply	+5VDC
Connector	USB female micro
Power consumption	0.15A max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	206 x 179 x 30mm
Weight	60gr





ATTENUATORS

RF attenuators of -5dB, -10dB and -20dB for any kind of application.





LAT-005



5dB attenuator F male to F female @ 75Ω

Technical Specifications

Electrical	
Attenuation	5dB
Frequency range	51000MHz
Impedance (IN/OUT)	75Ω
Insertion loss	± 1dB
Return loss	≥ 18dB
Connectors	
No of inputs	1
No of outputs	1
Connector	F-female to F-male
DC Pass	No
EAN-13	
Code	5213009761345
General	
Operating temperature	0 °C to 40°C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	42 x 13mm

33.5 gr





20dB attenuator F male to F female @ 75Ω

Technical Specifications

Weight

Attenuation	ZUdB
Frequency range	51000MHz
Impedance (IN/OUT)	75Ω
Insertion loss	± 1dB
Return loss	≥ 18dB

Connectors

No of inputs	1
No of outputs	1
Connector	F-female to F-male
DC Pass	No

EAN-13 Code

General		
Operating temperature	0 °C to 40°C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	42 x 13mm	
Weight	33.5 gr	

5213009761369

LAT-010



10dB attenuator F male to F female @ 75Ω

Technical Specifications

Electrical		
Attenuation	10dB	
7 KKOTIGGKIOTI	1005	
Frequency range	51000MHz	
Impedance (IN/OUT)	75Ω	
Insertion loss	± 1dB	
Return loss	≥ 18dB	
Connectors		
No of inputs	1	
No of outputs	1	
Connector	F-female to F-male	
DC Pass	No	
EAN-13		
Code	5213009761352	
General		
Operating temperature	0 °C to 40°C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	42 x 13mm	
Weight	33.5 gr	









Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



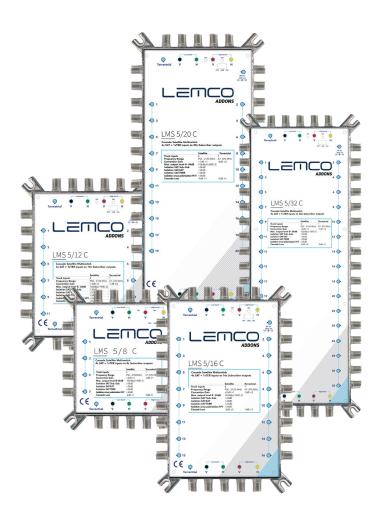
Satellite

 $\textbf{Multiswitches} \cdot \textbf{Amplifiers} \cdot \textbf{LNBs} \cdot \textbf{CAM} \cdot \textbf{Accessories}$



MULTISWITCHES

A complete satellite multi-switches series (-5,-9,-13 and -17 inputs) made out of zamac, able to distribute Satellite/Terrestrial in any kind of installation.





5-input-single/cascade

Features:

- Supporting Single, Quad, Quattro LNBs
- Excellent performance
- Compact size

LMS 5/8 S



- ZAMAK case
- External power supply

LMS 5/8 C



5-INPUT SINGLE

Technical Specifications

Trunk inputs (SAT+TER)	4+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TE	47 - 870 MHz
Connector	F- female
Impedance	75Ω"
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

Output

No of Subscribers	8
Gain TER	-2dB ±1
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω

Isolation

isolation SAT Subscriber-Subscriber	>30UD
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>34dB
Isolation cross polarisation H/V	>34dB

Cascade

No of outputs (SAT+TER)	-
Cascade Loss TER	-
Cascade Loss SAT	-

5213009760249

EAN-13

General		
Power supply	+18VDC	
Power supply consumption	350mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	135 x 135 x 35 mm	
Weight	0.469 Kg	

5-INPUT CASCADE

Technical Specifications

In	n			٠
	μ	٠	4	

Trunk inputs (SAT+TER)	4+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

Output

No of Subscribers	8
Gain TER	-2dB ±1
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female
Impedance	75Ω

Isolation

Isolation SAT Subscriber-Subscriber	>36dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>34dB
Isolation cross polarisation H/V	>34dB

Cascade

No of outputs (SAT+TER)	4+1
Cascade Loss TER	-5dB ±1
Cascade Loss SAT	-2dB ±1

5213009760300

EAN-13 Code

Oction at		
Power supply	+18VDC (Not included)	
Power supply consumption	350mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	135 x 135 x 35 mm	
Weight	0.469 Kg	

LMS 5/12 S

5-INPUT SINGLE

Technical Specifications



Input

Trunk inputs (SAT+TER)	4+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

Output No of Subscribers 12 -1dB ±2 Gain SAT +3dB ±1 102dBµV Max. output level @ -35dB (IMD3) Connector F- female Impedance 75Ω

Isolation Isolation SAT Subscriber-Subscriber >35dB Isolation SAT-SAT Isolation SAT-TERR >33dB >34dB Isolation cross polarisation H/V >33dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT

EAN-13 5213009760256

General Power supply +18VDC 350mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Power supply consumption Operating temperature Storage temperature Humidity Dimensions Weight 166 x 135 x 35 mm 0.564 Kg

LMS 5/16 S

5-INPUT SINGLE

Technical Specifications



Input

Output	17
	DiSEqC 2.0, Toneburst VDC
Switch commands	13/18 V, 0/22 kHz,
Impedance	75Ω
Connector	F- female
Frequency Range TER	47 - 870 MHz
Frequency Range SAT	50 - 2150 MHz
Trunk inputs (SAT+TER)	4+1

No of Subscribers Gain TER Gain SAT +2dB ±1 +1dB ±2 102dBµV Max. output level @ -35dB (IMD3) Connector F- female 75Ω

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >34dB >37dB Isolation cross polarisation H/V >34dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT

EAN-13 5213009760263 Code

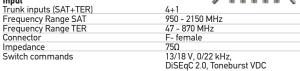
General Power supply +18VDC Power supply consumption Operating temperature 350mA max 0 °C to 40 °C -10 °C to +70 °C Up to 90% 198 x 135 x 35 mm Storage temperature Humidity Dimensions Weight 0.658 Kg

LMS 5/12 C

5-INPUT CASCADE

Technical Specifications

Input



Output No of Subscribers -1dB ±2 Gain TER +3dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) Connector F- female Impedance 75Ω

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >35dB >33dB >34dB Isolation cross polarisation H/V >33dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT -5dB ±1 -2dB ±1

EAN-13 5213009760317

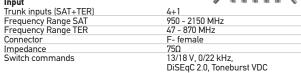
General Power supply +18VDC (Not included) 350mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 166 x 135 x 35 mm 0.564 Kg Power supply consumption Operating temperature Storage temperature Humidity Dimensions Weight

LMS 5/16 C

5-INPUT CASCADE

Technical Specifications

Input



Output No of Subscribers Gain TER 16 -2dB ±2 +2dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) Connector F- female Impedance 75Ω

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >34dB >37dB Isolation cross polarisation H/V >34dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT 4+1 -5dB ±1 -3dB ±2

5213009760324 Code

General Power supply +18VDC (Not included) 350mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 198 x 135 x 35 mm Power supply consumption Operating temperature Storage temperature Humidity Dimensions Weight 0.658 Kg



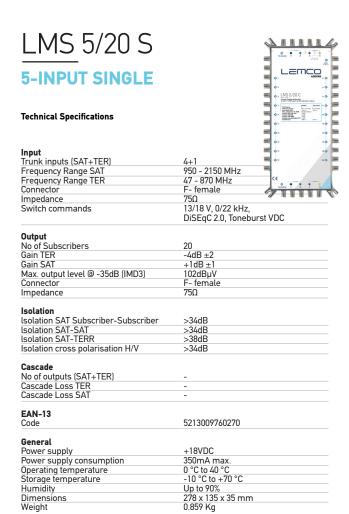
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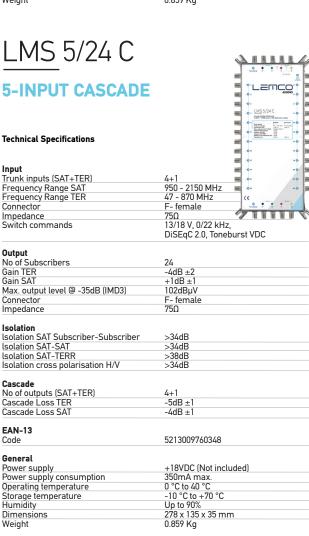
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LMS 5/24 S		

5-INPUT SINGLE		, LMS 5/24 C
Technical Specifications		The state of the s
Input		
Trunk inputs (SAT+TER)	4+1	
Frequency Range SAT	950 - 2150 MHz	■ On HO
Frequency Range TER	47 - 870 MHz	CE
Connector	F- female	
Impedance	75Ω	777777
Switch commands	13/18 V, 0/22 kHz,	
Switch commands	DiSEqC 2.0, Toneb	urst VDC
Output		
No of Subscribers	24	
Gain TER	+2dB ±1	
Gain SAT	-2dB ±2	
Max. output level @ -35dB (IMD3)	102dBµV	
Connector	F- female	
Impedance	75Ω	
Isolation		
Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>34dB	
Isolation SAT-TERR	>38dB	
Isolation cross polarisation H/V	>34dB	
Cascade		
No of outputs (SAT+TER) Cascade Loss TER	-	
Cascade Loss SAT	<u>-</u>	
EAN-13		
Code	5213009760287	
General		
Power supply	+18VDC	
Power supply consumption	350mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	278 x 135 x 35 mm	
Weight	0.859 Kg	

LMS 5/20 C LEMCO AEDONS 5-INPUT CASCADE **Technical Specifications** Input Trunk inputs (SAT+TER) Frequency Range SAT Frequency Range TER 4+1 950 - 2150 MHz 47 - 870 MHz F- female Connector Impedance 75Ω 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC Switch commands Output No of Subscribers Gain TER -4dB ±2 +1dB ±1 102dBµV Max. output level @ -35dB (IMD3) F- female 75Ω Connector Impedance Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >34dB >38dB Isolation cross polarisation H/V >34dB No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT -5dB ±1 -4dB ±1 EAN-13 5213009760331 General Power supply Power supply consumption +18VDC (Not included) 350mA max. 0 °C to 40 °C -10 °C to +70 °C Operating temperature Storage temperature Humidity Up to 90% 278 x 135 x 35 mm 0.859 Kg Dimensions Weight





LMS 5/32 S

5-INPUT SINGLE

Technical Specifications

ln	put
_	

Trunk inputs (SAT+TER)
Frequency Range SAT
Frequency Range TER
Connector 4+1 950 - 2150 MHz 47 - 870 MHz F- female 750 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC Impedance Switch commands



Output

output .	
No of Subscribers	32
Gain TER	+1dB ±1
Gain SAT	-5dB ±2
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω

Isolation

Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>38dB
Isolation cross polarisation H/V	>34dB

No of outputs (SAT+TER)	-
Cascade Loss TER	-
Cascade Loss SAT	_

EAN-13	
Code	521300976029

General	
Power supply	+18VDC
Power supply consumption	350mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	326 x 135 x 35 mm
Weight	0.985 Kg

LMS 5/32 C

5-INPUT CASCADE

Technical Specifications

5-INPUT CASCADE		
		1000
Technical Specifications		WHEN P
reclificat Specifications		
I		1000
Input		
Trunk inputs (SAT+TER)	4+1	-
Frequency Range SAT	950 - 2150 MHz	
Frequency Range TER	47 - 870 MHz	_
Connector	F- female	-
Impedance	75Ω	-
Switch commands	13/18 V, 0/22 kH:	z,
	DiSEqC 2.0,	100
	Toneburst VDC	W

Output		~y	1	W	Til.	W	V
No of Subscribers	32						
Gain TER	-7dB ±2						
Gain SAT	$+0dB \pm 1$						
Max. output level @ -35dB (IMD3)	102dBµV						
Connector	F- female						
Impedance	75Ω						

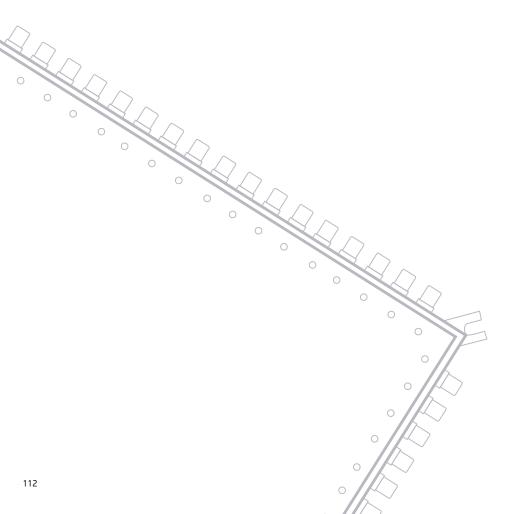
ISOLATION		
Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>34dB	
Isolation SAT-TERR	>38dB	
Isolation cross polarisation H/V	<3/4B	

Cascade

No of outputs (SAT+TER)	4+1	
Cascade Loss TER	-5dB ±1	
Caccado Loco SAT	_5dR ±2	

LAIN-13	
Code	5213009760355

General		
Power supply	+18VDC (Not included)	
Power supply consumption	350mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	326 x 135 x 35 mm	
Weight	0.985 Kg	





9-input-single/cascade

Features:

- Supporting Single, Quad, Quattro LNBs
- Excellent performance
- Compact size
- ZAMAK case
- External power supply

LMS 9/8 S

Technical Specifications



9-INPUT SINGLE

Input	
Trunk inputs (SAT+TER)	8+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEgC 2.0, Toneburst VDC

Output	
No of Subscribers	8
Gain TER	+4dB ±2
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω

Isolation		
Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>34dB	
Isolation SAT-TERR	>36dB	
Isolation cross polarisation H/V	>34dB	

Cascade	
No of outputs (SAT+TER)	
Cascade Loss TER	-
Cascade Loss SAT	-

EAN-13		
Code	5213009760362	
General		
Power supply	+18VDC	
Power supply consumption	700mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	135 x 198 x 35 mm	
Weight	0.665 Kg	

LMS 9/8 C

Technical Specifications

EAN-13

Code



9-INPUT CASCADE

Input	
Trunk inputs (SAT+TER)	8+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	8
Gain TER	+4dB ±2
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female

Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>36dB
Isolation cross polarisation H/V	>34dB
Cascade	
No of outputs (SAT+TER)	8+1

No of outputs (SAT+TER)	8+1	
Cascade Loss TER	-5dB ±1	
Cascade Loss SAT	-2dB ±1	

5213009760423

General	
Power supply	+18VDC (Not included)
Power supply consumption	700mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	135 x 198 x 35 mm
Weight	0.665 Kg

LMS 9/12 S

9-INPUT SINGLE

Technical Specifications



Input Trunk inputs (SAT+TER) Frequency Range SAT Frequency Range TER 8+1 950 - 2150 MHz 47 - 870 MHz Connector F- female 75Ω Impedance 13/18 V, 0/22 kHz, Switch commands DiSEqC 2.0, Toneburst VDC

Output No of Subscribers Gain TER 12 +3dB ±2 +3dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) F- female 75Ω Impedance

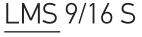
Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >35dB >33dB Isolation cross polarisation H/V

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT

EAN-13 Code 5213009760379 General Power supply
Power supply consumption
Operating temperature
Storage temperature +18VDC 700mA max 0 °C to 40 °C -10 °C to +70 °C

Up to 90% 166 x 198 x 35 mm 0.771 Kg

Weight



9-INPUT SINGLE



Technical Specifications

Humidity

Dimensions

	THITTIES
Input	,
Trunk inputs (SAT+TER)	8+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	16
Gain TER	-1dB ±2
Gain SAT	+2dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>37dB
Isolation SAT-TERR	>34dB
Isolation cross polarisation H/V	>34dB
Cascade	
No of outputs (SAT+TER)	-
Cascade Loss TER	-
Cascade Loss SAT	-
EAN-13	
Code	5213009760386
General	

+18VDC

0.884 Kg

700mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 198 x 198 x 35 mm

LMS 9/12 C

9-INPUT CASCADE

Technical Specifications



Input Trunk inputs (SAT+TER) 950 - 2150 MHz 47 - 870 MHz F- female Frequency Range SAT Frequency Range TER Connector 75Ω 13/18 V, 0/22 kHz, Impedance Switch commands DiSEqC 2.0, Toneburst VDC

Output No of Subscribers Gain TER 12 +3dB ±2 +3dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) F- female 75Ω Connector Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB>33dB >35dB Isolation cross polarisation H/V >33dE

No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT -5dB ±1 -2dB ±1

EAN-13 5213009760430

General +18VDC (Not included) Power supply consumption 700mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 166 x 198 x 35 mm 0.771 Kg Operating temperature Storage temperature Humidity Dimensions Weight

LMS 9/16 C

9-INPUT CASCADE



Technical Specifications

EAN-13

Code

Input	<i>y</i> = = = = = = (
Trunk inputs (SAT+TER)	8+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

Output No of Subscribers 16 -1dB ±2 Gain TER +2dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) Connector F- female 75Ω

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >37dB >34dB Isolation cross polarisation H/V >34dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT 8+1 -5dB ±1 -2dB ±1

General Power supply +18VDC (Not included) 700mA max. 0 °C to 40 °C" -10 °C to +70 °C Up to 90% 198 x 198 x 35 mm Power supply consumption Operating temperature Storage temperature Humidity Dimensions Weight

5213009760447

0.884 Kg

Power supply

Dimensions Weight

Power supply consumption Operating temperature

Storage temperature Humidity

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LMS 9/20 S

9-INPUT SINGLE

Technical Specifications

Input	
Trunk inputs (SAT+TER)	8+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V 0/22 kHz

Output	20
No of Subscribers	20
Gain TER	-1dB ±2
Gain SAT	+2dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female
Impedance	75Ω

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DiSEqC 2.0, Toneburst VDC

LEMCO

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LEMCO

Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>38dB
Isolation cross polarisation H/V	>34dB

Cascade		
No of outputs (SAT+TER)	-	
Cascade Loss TER	-	
Cascade Loss SAT	_	

EAN-13	
Code	5213009760393

+18VDC	
700mA max.	
0 °C to 40 °C	
-10 °C to +70 °C	
Up to 90%	
278 x 198 x 35 mm	
1.150 Kg	
	700mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 278 x 198 x 35 mm

LMS 9/24 S

9-INPUT SINGLE

Technical Specifications

Input 8+1 950 - 2150 MHz 47 - 870 MHz F- female 75Ω 13/18 V, 0/22 kHz, Trunk inputs (SAT+TER) Frequency Range SAT Frequency Range TER Connector Impedance Switch commands DiSEqC 2.0, Toneburst VDC

Output	
No of Subscribers	24
Gain TER	-1dB ±2
Gain SAT	+2dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω

Isolation Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>34dB	
Isolation SAT-TERR	>38dB	
Isolation cross polarisation H/V	>34dB	

Cascade		
No of outputs (SAT+TER)	-	
Cascade Loss TER	-	
Cascada I nes SAT	_	

EAN-13	
Code	5213009760409

Code	5213009760409	
General		
Power supply	+18VDC	
Power supply consumption	700mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	278 x 198 x 35 mm	
Weight	1.150 Kg	

LMS 9/20 C

9-INPUT CASCADE

Technical Specifications

Input Trunk inputs (SAT+TER) 950 - 2150 MHz Frequency Range SAT Frequency Range TER Connector 47 - 870 MHz F- female 75Ω 13/18 V, 0/22 kHz, Impedance Switch commands DiSEqC 2.0, Toneburst VDC Output No of Subscribers Gain TER 20 -1dB ±2 Gain SAT +2dB + 1Max. output level @ -35dB (IMD3) Connector 102dBµV F- female 75Ω Impedance Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >34dB >38dB Isolation cross polarisation H/V >34dB No of outputs (SAT+TER)
Cascade Loss TER
Cascade Loss SAT -5dB ±1 -4dB ±1 EAN-13 Code 5213009760454 General +18VDC (Not included)

+18VDC (Not include 700mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 278 x 198 x 35 mm 1.150 Kg

LMS 9/24 C

9-INPUT CASCADE

Technical Specifications

Power supply

Humidity Dimensions Weight

Power supply consumption Operating temperature Storage temperature

Input Trunk inputs (SAT+TER) Frequency Range SAT Frequency Range TER 8+1 950 - 2150 MHz 47 - 870 MHz F- female 75Ω 13/18 V, 0/22 kHz, Connector Impedance Switch commands DiSEqC 2.0, Toneburst VDC

Output		
No of Subscribers	24	
Gain TER	-1dB ±2	
Gain SAT	+2dB ±1	
Max. output level @ -35dB (IMD3)	102dBµV	
Connector	F- female	
Impedance	750	

Isolation Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>34dB	
Isolation SAT-TERR	>38dB	
Isolation cross polarisation H/V	>34dB	

Cascade (CAT TES)		
No of outputs (SAT+TER)	8+1	
Cascade Loss TER	-5dB ±1	
Cascade Loss SAT	-4dB ±1	

Cascade Loss SAT	-4uD ±1
EAN-13	
Code	5213009760461

+18VDC (Not included)	
700mA max.	
0 °C to 40 °C	
-10 °C to +70 °C	
Up to 90%	
278 x 198 x 35 mm	
1.150 Kg	
	700mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 278 x 198 x 35 mm

LEMCO



LMS 9/32 S

9-INPUT SINGLE

Technical Specifications

Input

BERRRRRRRRRRRRRRR Trunk inputs (SAT+TER) Frequency Range SAT Frequency Range TER 950 - 2150 MHz 750 - 2130 MHz 47 - 870 MHz F- female 75Ω 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC Connector Impedance Switch commands

Output No of Subscribers Gain TER Gain SAT 32 -3dB ±2 +1dB ±1 102dBµV Max. output level @ -35dB (IMD3) F- female 75Ω Connector Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >37dB >33dB >33dB Isolation cross polarisation H/V

Cascade
No of outputs (SAT+TER)
Cascade Loss TER
Cascade Loss SAT

EAN-13 5213009760416 Code

General Power supply +18VDC 700mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Power supply consumption Operating temperature Storage temperature
Humidity
Dimensions
Weight 326 x 198 x 35 mm 1.305 Kg

LMS 9/32 C

9-INPUT CASCADE

Technical Specifications

LEMCO

8+1 950 - 2150 MHz 47 - 870 MHz F- female Input Trunk inputs (SAT+TER) Frequency Range SAT Frequency Range TER F- female 750 13/18 V, 0/22 kHz, Connector Impedance Switch commands

Output No of Subscribers Gain TER Gain SAT 32 -3dB ±2 +1dB ±1 Max. output level @ -35dB (IMD3) Connector 102dBµV F- female Impedance 75Ω

DiSEqC 2.0, Toneburst VDC

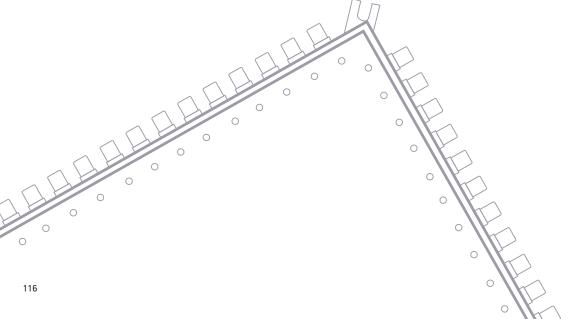
LEMCO

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >37dB Isolation cross polarisation H/V >33dB

Cascade No of outputs (SAT+TER) 8+1 Cascade Loss TER Cascade Loss SAT -5dB ±1 -5dB ±2

EAN-13 5213009760478 Code

General
Power supply
Power supply consumption
Operating temperature +18VDC (Not included) 700mA max. 0 °C to 40 °C Storage temperature Humidity -10 °C to +70 °C Up to 90% 326 x 198 x 35 mm 1.305 Kg Dimensions Weight





13-input-single/cascade

Features:

- Supporting Single, Quad, Quattro LNBs
- Excellent performance
- Compact size
- ZAMAK case
- External power supply

LMS 13/8 S

13-INPUT SINGLE



Technical Specifications

Trunk inputs (SAT+TER)	12+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEaC 2 0 Toneburst VDC

Output

No of Subscribers	8
Gain TER	+3dB ±1
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female
Impedance	75Ω

Isolation

Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB
Isolation SAT-TERR	>37dB
Isolation cross polarisation H/V	>34dB

Cascade

No of outputs (SAT+TER)	-	
Cascade Loss TER	-	
Cascade Loss SAT	-	

EAN-13 Code

General		
Power supply	+18VDC	
Power supply consumption	810mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	280 x 135 x 45 mm	
Weight	0 775 Ka	

5213009761116

LMS 13/8 C



13-INPUT CASCADE

Technical Specifications

Trunk inputs (SAT+TER)	12+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

Output	
No of Subscribers	8
Gain TER	-1dB ±1
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female
Impedance	75Ω

Isolation

Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB
Isolation SAT-TERR	>37dB
Isolation cross polarisation H/V	>34dB

Cascade

No of outputs (SAT+TER)	12+1
Cascade Loss TER	-5dB ±1
Cascade Loss SAT	-2dB ±2

EAN-13 Code

Code	5213009761178

General

Power supply	+18VDC
Power supply consumption	810mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	280 x 135 x 45 mm
Weight	0.775 Ka

LMS 13/12 S

13-INPUT SINGLE

Technical Specifications

Input Trunk inputs (SAT+TER) Frequency Range SAT

Frequency Range TER Connector Impedance Switch commands

12+1 950 - 2150 MHz 47 - 870 MHz F- fe 75Ω female 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC

LEMCO

Output No of Subscribers 12 +2dB ±1 Gain TER +2dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) Connector F- female 75Ω Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >37dB >34dB Isolation cross polarisation H/V

No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT

EAN-13 5213009761123 Code

General Power supply 18VDC Power supply consumption Operating temperature 810mA max 0 °C to 40 °C -10 °C to +70 °C Up to 90% Storage temperature 280 x 160 x 45 mm 0.935 Kg Dimensions

LMS 13/12 C

13-INPUT CASCADE

Technical Specifications

Input

Trunk inputs (SAT+TER) Frequency Range SAT 12+1 950 - 2150 MHz 47 - 870 MHz Frequency Range TER F- female 75Ω 13/18 V, 0/22 kHz, Connector Impedance Switch commands DiSEqC 2.0, Toneburst VDC

LEMCO

| Control | Cont

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Output No of Subscribers 12 -2dB ±1 Gain TER +2dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) Connector F- female 75Ω Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >37dB Isolation cross polarisation H/V >34dB

No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT -5dB ±1 -2dB ±2

EAN-13 5213009761185 Code

General Power supply
Power supply consumption
Operating temperature 18VDC 810mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Storage temperature 280 x 160 x 45 mm 0.935 Kg Dimensions

LMS 13/16 S

13-INPUT SINGLE

Technical Specifications

Input

Trunk inputs (SAT+TER) 950 - 2150 MHz Frequency Range SAT Frequency Range TER 47 - 870 MHz F- female Connecto Impedance 13/18 V. 0/22 kHz. Switch commands DiSEqC 2.0, Toneburst VDC

Output No of Subscribers Gain TER +1dB ±1 Gain SAT +2dB + 1Max. output level @ -35dB (IMD3) 102dBµV Connector F- female 75Ω

IsolationIsolation SAT Subscriber-Subscriber >34dB Isolation SAT-SAT Isolation SAT-TERR >33dB >37dB Isolation cross polarisation H/V >34dB

Cascade
No of outputs (SAT+TER)
Cascade Loss TER
Cascade Loss SAT

EAN-13 Code

General +18VDC Power supply

5213009761130

810mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Power supply consumption
Operating temperature
Storage temperature
Humidity Dimensions Weight 280 x 190 x 45 mm 1.107 Kg

13-INPUT CASCADE

Technical Specifications

Input

Trunk inputs (SAT+TER) 12+1 950 - 2150 MHz Frequency Range SAT Frequency Range TER 47 - 870 MHz F- female Connector . 75Ω 13/18 V. 0/22 kHz. Impedance Switch commands DiSEqC 2.0, Toneburst VDC

Output No of Subscribers 16 Gain TER -3dB ±1 Gain SAT +2dB ±1 102dBµV Max. output level @ -35dB (IMD3) Connector -- female . 75Ω Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >37dB Isolation cross polarisation H/V >34dB

No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT 12+1 -5dB ±1 -3dB +2

EAN-13 Code 5213009761192

General +18VDC Power supply 810mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Power supply consumption Operating temperature Storage temperature Humidity Dimensions Weight 280 x 190 x 45 mm 1.107 Kg





LMS 13/20 S

13-INPUT SINGLE

Technical Specifications

Trunk inputs (SAT+TER)

950 - 2150 MHz 47 - 870 MHz F- female Frequency Range SAT Frequency Range TER Connector 75Ω 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC Impedance Switch commands

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Output No of Subscribers -2dB ±1 Gain TER +1dB ±1 102dBµV Gain SAT Max. output level @ -35dB (IMD3) Connector - female Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT Isolation SAT-TERR >34dB >33dB >37dB >34dB Isolation cross polarisation H/V

No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT

EAN-13 5213009761147 Code

General Power supply -18VDC Power supply consumption
Operating temperature
Storage temperature 810mA max 0 °C to 40 °C -10 °C to +70 °C Up to 90% 280 x 275 x 45 mm Dimensions

LMS 13/20 C

13-INPUT CASCADE

Technical Specifications

Input

Trunk inputs (SAT+TER) 12+1 950 - 2150 MHz 47 - 870 MHz F- female 750 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC Frequency Range SAT Frequency Range TER Connector Impedance Switch commands

Output No of Subscribers -6dB ±1 Gain TER +1dB ±1 102dBµV Max. output level @ -35dB (IMD3) Connector F- female 75Ω Impedance

Isolation Isolation SAT Subscriber-Subscriber Isolation SAT-SAT >34dB >33dB Isolation SAT-TERR >37dB >34dB Isolation cross polarisation H/V

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT -5dB ±1 -4dB ±2

EAN-13 5213009761208

General Power supply
Power supply consumption
Operating temperature
Storage temperature +18VDC 810mA max. 0 °C to 40 °C -10 °C to +70 °C Humidity Up to 90% 280 x 275 x 45 mm Dimensions Weight

LMS 13/24 S

13-INPUT SINGLE

Technical Specifications

Input

12+1 950 - 2150 MHz 47 - 870 MHz F- female Trunk inputs (SAT+TER)
Frequency Range SAT
Frequency Range TER Connector Impedance 13/18 V, 0/22 kHz, Switch commands DiSEqC 2.0, Toneburst VDC

1º

Output No of Subscribers Gain TER -2dB ±1 Gain SAT +1dB +1 Max. output level @ -35dB (IMD3) 102dBµV Connector - female 75Ω

IsolationIsolation SAT Subscriber-Subscriber >34dB Isolation SAT-SAT Isolation SAT-TERR >33dB >37dB Isolation cross polarisation H/V >34dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT

EAN-13 5213009761154

General Power supply +18VDC 940mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Power supply consumption Operating temperature Storage temperature Humidity Dimensions 280 x 275 x 45 mm 1.462 Kg Weight

LMS 13/24 C

13-INPUT CASCADE

Technical Specifications

Input

Trunk inputs (SAT+TER) 12+1 950 - 2150 MHz 47 - 870 MHz F- female 75Ω 13/18 V, 0/22 kHz, Frequency Range SAT Frequency Range TER Connector Impedance Switch commands DiSEqC 2.0, Toneburst VDC

Output No of Subscribers Gain TER -6dB ±1 +1dB ±1 Gain SAT Max. output level @ -35dB (IMD3) 102dBµV Connector F- female 75Ω Impedance

IsolationIsolation SAT Subscriber-Subscriber >34dB Isolation SAT-SAT Isolation SAT-TERR >33dB >37dBIsolation cross polarisation H/V >34dB

Cascade No of outputs (SAT+TER) Cascade Loss TER Cascade Loss SAT -5dB -4dB +2

EAN-13 5213009761215

General +18VDC 940mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% Power supply
Power supply consumption
Operating temperature
Storage temperature
Humidity Dimensions Weight 280 x 275 x 45 mm 1.462 Kg





LMS 13/32 S

13-INPUT SINGLE

Technical Specifications

Input

EAN-13 Code

General

Humidity Dimensions Weight

Power supply
Power supply consumption
Operating temperature
Storage temperature

ilipat	./
Trunk inputs (SAT+TER)	12+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	32
Gain TER	-4dB ±1
Gain SAT	+1dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB
Isolation SAT-TERR	>37dB
Isolation cross polarisation H/V	>34dB
Cascade	
No of outputs (SAT+TER) Cascade Loss TER	-
Cascade Loss FER	-
Cascade Loss SAI	

5213009761161

+18VDC 940mA max. 0 °C to 40 °C -10 °C to +70 °C Up to 90% 280 x 320 x 45 mm 1.590 Kg



LMS 13/32 C

13-INPUT CASCADE

Technical Specifications

Input

Trunk inputs (SAT+TER)	12+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

LEMCO

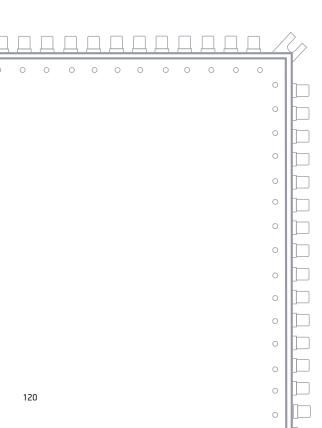
Output		
No of Subscribers	32	
Gain TER	-8dB ±1	
Gain SAT	+1dB ±1	
Max. output level @ -35dB (IMD3)	102dBµV	
Connector	F- female	
Impedance	750	

Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB
Isolation SAT-TERR	>37dB
Isolation cross polarisation H/V	>344B

Cascade		
No of outputs (SAT+TER)	12+1	
Cascade Loss TER	-5dB ±1	
0 1 1 647	E ID 0	

Cascade Loss SAT	-5dB ±2
EAN-13	
Code	5213009761222

General	
Power supply	+18VDC
Power supply consumption	940mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	280 x 320 x 45 mm
Weight	1.590 Kg





17-input-single/cascade

Features:

- Supporting Single, Quad, Quattro LNBs
- Excellent performance
- Compact size
- ZAMAK case
- External power supply

LMS 17/8 S

17-INPUT SINGLE



Technical Specifications

Operating temperature

Storage temperature

Humidity

Dimensions Weight

lanut.	
Input Trunk inputs (SAT, TED)	16+1
Trunk inputs (SAT+TER) Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	8
Gain TER	+3dB ±2
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>36dB
Isolation cross polarisation H/V	>34dB
Cascade	
No of outputs (SAT+TER)	_
Cascade Loss TER	_
Cascade Loss SAT	-
EAN-13	
Code	5213009760485
General	
Power supply	+18VDC
Power supply consumption	850mA max.

0 °C to 40 °C -10 °C to +70 °C

Up to 90%

0.984 Kg

135 x 326 x 35 mm

LMS 17/8 C

17-INPUT CASCADE



Technical Specifications

Output	
	DiSEqC 2.0, Toneburst VDC
Switch commands	13/18 V, 0/22 kHz,
Impedance	75Ω
Connector	F- female
Frequency Range TER	47 - 870 MHz
Frequency Range SAT	950 - 2150 MHz
Trunk inputs (SAT+TER)	16+1

No of Subscribers	8
Gain TER	+3dB ±2
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω

Isolation

Isolation SAT Subscriber-Subscriber	>340B
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>36dB
Isolation cross polarisation H/V	>34dB

Cascade

No of outputs (SAT+TER)	16+1
Cascade Loss TER	-5dB ±1
Cascade Loss SAT	-2dB ±2

5213009760546

0.984 Kg

EAN-13 Code

Weight

General		
Power supply	+18VDC	
Power supply consumption	850mA max.	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	135 x 326 x 35 mm	

LMS 17/12 S

17-INPUT SINGLE



Technical Specifications

Input	
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	12
Gain TER	+3dB +2
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
<u> </u>	
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>36dB
Isolation cross polarisation H/V	>34dB
Cascade	
No of outputs (SAT+TER)	_
Cascade Loss TER	_
Cascade Loss SAT	-
EAN-13	
Code	5213009760492
Coue	JZ1J007/0047Z
General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	166 x 326 x 35 mm
Weight	1 152 Ka

Code	5213009760492
General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	166 x 326 x 35 mm
Weight	1.152 Kg

LMS 17/12 C

17-INPUT CASCADE



Technical Specifications

Input	
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V. 0/22 kHz.
Switch communus	DiSEgC 2.0, Toneburst VDC
	DISEQUES, TOTICBUTS! TEO
Output	
No of Subscribers	12
Gain TER	+3dB ±2
Gain SAT	+3dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>34dB
Isolation SAT-TERR	>36dB
Isolation cross polarisation H/V	>34dB
Cascade	
No of outputs (SAT+TER)	16+1
Cascade Loss TER	-5dB ±1
Cascade Loss SAT	-2dB ±2
=4.11.40	
EAN-13	F010000F/0FF0
Code	5213009760553
General	
	+18VDC
Power supply Power supply consumption	850mA max.
	0 °C to 40 °C
Operating temperature Storage temperature	-10 °C to +70 °C
Humidity	
Dimensions	Up to 90% 166 x 326 x 35 mm
Weight	1.152 Kg

LMS 17/16 S

17-INPUT SINGLE



Technical Specifications

Trunk inputs (SAT+TER) 16+1 Frequency Range SAT 950 - 2150 MHz Frequency Range TER 47 - 870 MHz Connector F- female Impedance 75Ω Switch commands 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC		
Frequency Range SAT	Input	
Frequency Range TER	Trunk inputs (SAT+TER)	16+1
Connector F- female Impedance 75Ω Switch commands 13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC Output No of Subscribers 16 Gain TER +1dB ±2 Gain SAT +2dB ±1 Max. output level @ -35dB (IMD3) 102dBμV Connector F- female Impedance 75Ω Isolation Isolation Isolation SAT Subscriber-Subscriber >34dB Isolation SAT-SAT >33dB Isolation SAT-TERR >37dB Isolation cross polarisation H/V >33dB Cascade No of outputs (SAT+TER) - Cascade Loss TER - Cascade Loss SAT - EAN-13 - Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35	Frequency Range SAT	
Impedance 75Ω 3/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC	Frequency Range TER	47 - 870 MHz
Switch commands	Connector	F- female
DisEqC 2.0, Toneburst VDC Output No of Subscribers 16 Gain TER +1dB ±2 Gain SAT +2dB ±1 Max. output level @ -35dB (IMD3) 102dBµV Connector F- female Impedance 75Ω Isolation Isolation Isolation SAT Subscriber-Subscriber >34dB Isolation SAT-SAT >33dB Isolation SAT-TERR >37dB Isolation cross polarisation H/V >33dB Cascade No of outputs (SAT+TER) Cascade Loss TER - Cascade Loss SAT - EAN-13 Code Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature -0°C to 40°C Storage temperature -10°C to +70°C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Impedance	75Ω
Output No of Subscribers 16 Gain TER +1dB ±2 Gain SAT +2dB ±1 Max. output level @ -35dB (IMD3) 102dBμV Connector F- female Impedance 75Ω Isolation Isolation SAT Subscriber-Subscriber >34dB Isolation SAT-SAT >33dB Isolation SAT-TERR >37dB Isolation cross polarisation H/V >33dB Isolation cross polarisation H/V >33dB Cascade No of outputs (SAT+TER) - Cascade Loss TER - - Cascade Loss SAT - - EAN-13 - - Code 5213009760508 - General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Switch commands	13/18 V, 0/22 kHz,
No of Subscribers 16 Gain TER +1dB ±2 Gain SAT +2dB ±1 Max. output level @ -35dB (IMD3) 102dBμV Connector F- female Impedance 75Ω Isolation SaddB Isolation SAT Subscriber - Subscriber >34dB Isolation SAT-SAT >33dB Isolation SAT-TERR >37dB Isolation cross polarisation H/V >33dB Cascade No of outputs (SAT+TER) Cascade Loss TER - Cascade Loss SAT - EAN-13 - Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0°C to 40°C Storage temperature -10°C to +70°C Humidity Up to 90% Dimensions 198 x 326 x 35 mm		DiSEqC 2.0, Toneburst VDC
No of Subscribers 16 Gain TER +1dB ±2 Gain SAT +2dB ±1 Max. output level @ -35dB (IMD3) 102dBμV Connector F- female Impedance 75Ω Isolation SaddB Isolation SAT Subscriber - Subscriber >34dB Isolation SAT-SAT >33dB Isolation SAT-TERR >37dB Isolation cross polarisation H/V >33dB Cascade No of outputs (SAT+TER) Cascade Loss TER - Cascade Loss SAT - EAN-13 - Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0°C to 40°C Storage temperature -10°C to +70°C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Output	
Gain TER		16
Gain SAT	Gain TER	
Max. output level @ -35dB (IMD3) 102dBμV Connector F- female Impedance 75Ω Isolation solation SAT Subscriber > 34dB Isolation SAT-SAT >33dB Isolation SAT-TERR >37dB Isolation cross polarisation H/V >33dB Cascade No of outputs (SAT+TER) Cascade Loss TER - Cascade Loss SAT - EAN-13 Code Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Gain SAT	
Connector Impedance F- female 75Ω Isolation Isolation SAT Subscriber-Subscriber >34dB 3dB 3dB 3dB 3dB 3dB 3dB 3dB 3dB 3dB 3		
Isolation Isolation Isolation Isolation Isolation SAT Subscriber SAT SAT	Connector	
Solation SAT Subscriber	Impedance	75Ω
Solation SAT Subscriber	·	
Isolation SAT-SAT >33dB	Isolation	
Solation SAT-TERR >37dB Solation cross polarisation H/V >33dB	Isolation SAT Subscriber-Subscriber	>34dB
Solation cross polarisation H/V >33dB	Isolation SAT-SAT	>33dB
Cascade No of outputs (SAT+TER) - Cascade Loss TER - Cascade Loss SAT - EAN-13 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Isolation SAT-TERR	>37dB
No of outputs (SAT+TER)	Isolation cross polarisation H/V	>33dB
Cascade Loss TER - Cascade Loss SAT - EAN-13 Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Cascade	
Cascade Loss SAT - EAN-13 Code 5213009760508 General Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	No of outputs (SAT+TER)	-
### Fan	Cascade Loss TER	-
Code 5213009760508 General +18VDC Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Cascade Loss SAT	-
General Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	EAN-13	
Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	Code	5213009760508
Power supply +18VDC Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm	General	
Power supply consumption 850mA max. Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm		+18VDC
Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm		
Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 198 x 326 x 35 mm		
Humidity Up to 90% Dimensions 198 x 326 x 35 mm		
Dimensions 198 x 326 x 35 mm		
	Weight	

LMS 17/16 C

17-INPUT CASCADE



	The Set ** Collection of the Section of Agents of Section of Secti
Technical Specifications	
Input	
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	16
Gain TER	+1dB ±2
Gain SAT	+2dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB
Isolation SAT-TERR	>37dB
Isolation cross polarisation H/V	>33dB
Cascade	
No of outputs (SAT+TER)	16+1
Cascade Loss TER	-5dB +1
Cascade Loss SAT	-3dB ±1
EAN-13	
Code	5213009760560
General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	198 x 326 x 35 mm
Weight	1.307 Kg

17-INPUT SINGLE

LMS 17/20 S

Technical Specifications



Outrod	
	DiSEqC 2.0, Toneburst VDC
Switch commands	13/18 V, 0/22 kHz,
Impedance	75Ω
Connector	F- female
Frequency Range TER	47 - 870 MHz
Frequency Range SAT	950 - 2150 MHz
Trunk inputs (SAT+TER)	16+1
iliput	

Output	
No of Subscribers	20
Gain TER	-2dB ±2
Gain SAT	+1dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB

Cascade		
Isolation cross polarisation H/V	>33dB	
Isolation SAT-TERR	>37dB	
ISUIdIIUII SAI-SAI	>ssud	

Cascade	
No of outputs (SAT+TER)	-
Cascade Loss TER	-
Cascade Loss SAT	-
EAN-13	
EAN-13	
Code	5213009760515

General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	278 x 326 x 35 mm
Weight	1.696 Kg

17-INPUT SINGLE

LMS 17/24 S

	Standard Sandillo Multivarioù Sid SAF + 1a TER injurio to 244 Salescriber outputs On
Technical Specifications	□
Input	· · · · · · · · · · · · · · · · · · ·
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
	750

<u> </u>	
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC
Output No of Subscribers	24

Gain TER	-2dB ±2	
Gain SAT	+1dB ±1	
Max. output level @ -35dB (IMD3)	102dBµV	
Connector	F- female	
Impedance	75Ω	
Isolation		
Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>33dB	
Isolation SAT-TERR	>37dB	
Isolation cross polarisation H/V	>33dB	
Cascade		
No of outputs (SAT+TER)	-	
Cascade Loss TER	-	
Cascade Loss SAT	-	

EAN-13 Code	5213009760522
General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	278 x 326 x 35 mm
Weight	1.696 Kg

17-INPUT CASCADE

LMS 17/20 C

Technical Specifications



Input	
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC

	1 /	
Output		
No of Subscribers	20	
Gain TER	-2dB ±2	
Gain SAT	+1dB ±1	
Max. output level @ -35dB (IMD3)	102dBμV	
Connector	F- female	
Impedance	75Ω	
Isolation		
Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>33dB	
Isolation SAT-TERR	>37dB	
Icalation cross polarication U//	~ 334D	

isolation cross polarisation n/ v	>33ub
Cascade	
No of outputs (SAT+TER)	16+1
Cascade Loss TER	-5dB ±1
Cascade Loss SAT	-3dB ±1

Code	5213009760577
General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	278 x 326 x 35 mm
Weight	1.696 Kg

17-INPUT CASCADE

LMS 17/24 C

Technical Specifications

EAN-13



	711111111111111111
Input	
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEqC 2.0, Toneburst VDC
Output	
No of Subscribers	24
Gain TER	-2dB ±2
Gain SAT	+1dB ±1
Max. output level @ -35dB (IMD3)	102dBμV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB
Isolation SAT-SAT	>33dB
Isolation SAT-TERR	>37dB
Isolation cross polarisation H/V	>33dB
Cascade	
No of outputs (SAT+TER)	16+1
Cascade Loss TER	-5dB ±1
Cascade Loss SAT	-3dB ±1
EAN-13	
Code	5213009760584
General	
Power supply	+18VDC
Power supply consumption	850mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	278 x 326 x 35 mm
Weight	1.696 Kg

17-INPUT SINGLE

LMS 17/32 S

Technical Specifications

In	pui	

Irunk inputs (SAI+IEK)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz,
	DiSEaC 2.0. Toneburst VDC

Output		
No of Subscribers	32	
Gain TER	-4dB ±2	
Gain SAT	+1dB ±1	
Max. output level @ -35dB (IMD3)	102dBµV	
Connector	F- female	
Impedance	750	

Isolation Isolation SAT Subscriber-Subscriber	>34dB	
Isolation SAT-SAT	>33dB	
Isolation SAT-TERR	>37dB	
Isolation cross polarisation H/V	>33dB	

Cascade		
No of outputs (SAT+TER)	-	
Cascade Loss TER	-	
Cascade Loss SAT	-	

EAN-13	
Code	5213009760539

General	
Power supply	+18VDC
Power supply consumption	1000mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	326 x 326 x 35 mm
Weight	1.910 Kg

17-INPUT CASCADE

LMS 17/32 C

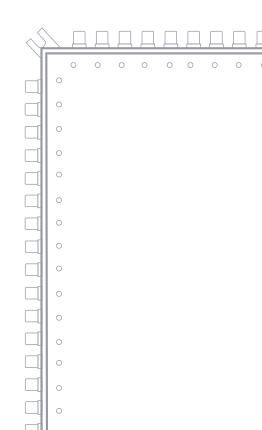
Input Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Connector	F- female
Impedance	75Ω
Switch commands	13/18 V, 0/22 kHz, DiSEqC 2.0, Toneburst VDC

Output	
No of Subscribers	32
Gain TER	-4dB ±2
Gain SAT	+1dB ±1
Max. output level @ -35dB (IMD3)	102dBµV
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT Subscriber-Subscriber	>34dB

Isolation SAT-SAT	>33dB	
Isolation SAT-TERR	>37dB	
Isolation cross polarisation H/V	>33dB	
Cascade		
No of outputs (SAT+TER)	16+1	
Cascade Loss TER	-5dB ±1	
Cascada Loss SAT	-5dB ±2	

EAN-13	
Code	5213009760591

General	
Power supply	+18VDC
Power supply consumption	1000mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	326 x 326 x 35 mm
Weight	1.910 Kg



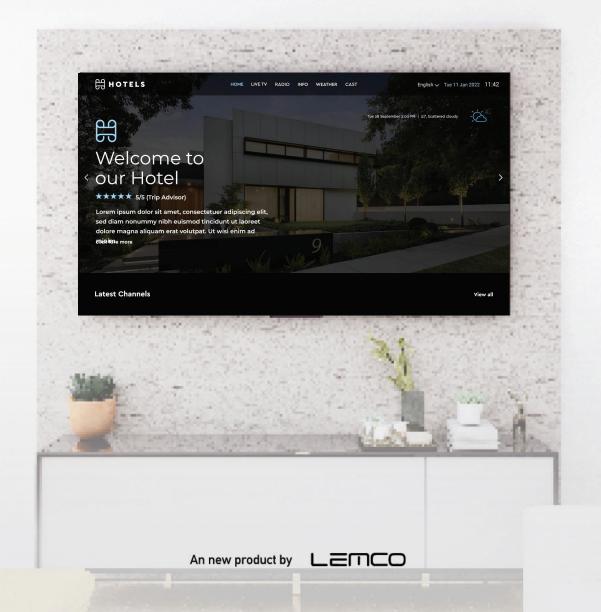


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- Automatic Check IN/OUT
- PMS connectivity
- Billing

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- Advertisements
- Ordering system
- Flight/Train schedule
- Weather info
- Time/Date info
- 'Alarm' functionality
- Unlimited support of TVs
- Support of LG, Samsung, Philips Hotel Smart TVs

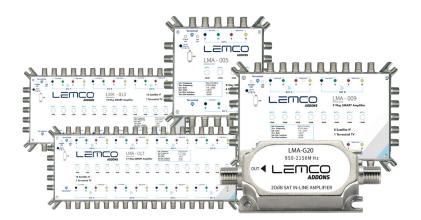
- External STB supported
- Chromecast support
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- Applications
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- And more...





SATELLITE AMPLIFIERS

The LMA-xxx series of satellite multi-switch amplifiers are the ideal solution in cases we need to amplify or equalize any SAT/TER signal.





LMA-005



Technical Specifications

Input	
Trunk inputs (SAT+TER)	4+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Max. signal input (SAT)	110dBuV
Connector	F- female
Impedance	75Ω
Output	
Gain TER	-1dB ±1
Gain SAT	+1923dB
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT-SAT	>43dB
Isolation SAT-TERR	>50dB
EAN-13	
Code	5213009760782
General	
Power supply	+18VDC
Power supply consumption	600mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	120 x 120 x 45 mm

Multiswitch amplifier compatible with all 5-inputs multiswitch series made of ZAMAK material. PSU is included.

0.430 Kg

LMA-009



Technical Specifications

	JAPARARARE LA
Input	
Trunk inputs (SAT+TER)	8+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Max. signal input (SAT)	110dBuV
Connector	F- female
Impedance	75Ω
Output	
Gain TER	-1dB ±1
Gain SAT	+1923dB
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT-SAT	>43dB
Isolation SAT-TERR	>50dB
EAN-13	
Code	5213009760799
Code	3213007700777
General	
Power supply	+18VDC
Power supply consumption	760mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	195 x 120 x 45 mm
Weight	0.670 Kg

Multiswitch amplifier compatible with all 9-inputs multiswitch series made of ZAMAK material. PSU is included.

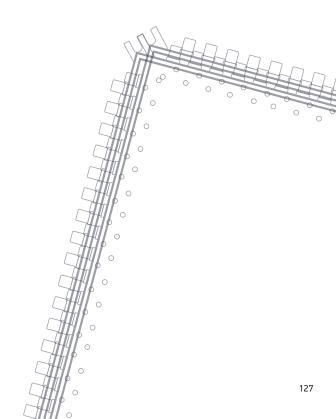
Amplifier for satellite signal in L-band (950-2150MHz) with 20dB gain.



Weight



Electrical	
Input port	1
• •	1
Output port	<u> </u>
Frequency range	950-2400MHz
Gain	20dB
Return loss	10dB
Noise figure	4dB
Connector	F- female
Impedance	75Ω
EAN-13	
Code	5213009761246
General	
Power supply	+12+18VDC
Power supply consumption	30mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	80 x 35 x 17 mm





Multiswitch amplifier compatible with all 13-inputs multiswitch series made of ZAMAK material. PSU is included.



Technical Specifications

Input	
Trunk inputs (SAT+TER)	12+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Max. signal input (SAT)	110dBuV
Connector	F- female
Impedance	75Ω
Output	
Gain TER	-1dB ±1
Gain SAT	+1923dB
Connector	F- female
Impedance	75Ω

Isolation	
Isolation SAT-SAT	>43dB
Isolation SAT-TERR	>50dB

EAN-13	
Code	5213009761239

General	
Power supply	+18VDC
Power supply consumption	880mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	310 x 120 x 45 mm
Weight	0.840 Kg

Multiswitch amplifier compatible with all 17-inputs multiswitch series made of ZAMAK material. PSU is included.



Weight

	1 Terrestrial TV
Technical Specifications	
Input	,
Trunk inputs (SAT+TER)	16+1
Frequency Range SAT	950 - 2150 MHz
Frequency Range TER	47 - 870 MHz
Max. signal input (SAT)	110dBuV
Connector	F- female
Impedance	75Ω
Output	
Gain TER	-1dB ±1
Gain SAT	+1923dB
Connector	F- female
Impedance	75Ω
Isolation	
Isolation SAT-SAT	>43dB
Isolation SAT-TERR	>50dB
EAN-13	
Code	5213009760805
General	
Power supply	+18VDC
Power supply consumption	1200mA max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	410x 120 x 45 mm
MAZ - Control	1.100.1/

1.100 Kg

Lemco by numbers

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Produced with the most technologically advanced methods and featuring cutting-edge technical features, our high-end product line offers cost-wise, professional solutions, addressing the needs of the Greek and European markets.



LNBs

Highly sensitive and low noise LNB series, with extra UV protection, able to operate under the worst weather conditions.





LNB-101

SINGLE KU-BAND LNB WITH UV FILTER

The LNB-101 is a single KU-band LNB of excellent performance. It's UV filter on the cap ensures long time longevity even under hard environment conditions while it's small size offer the maximum flexibility.

Technical Specifications

Frequency

Input range (low band)	10.7011.70 GHz
Input range (high band)	11.7012.75 GHz
Output range (low band)	9501950 MHz
Output range (high band)	11002150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +25oC	±1.0MHz (Max.)
Stability @ -30+70oC	±2.0MHz (Max.)

Gain

Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.3dB (Typ.)

Isolation

Cross polarization (Min.) 20dB

Electrical		
Impedance	75Ω	
L.O. Phase Noise @ 1KHz	-75dBc/Hz	
L.O. Phase Noise @ 10KHz	-80dBc/Hz	
L.O. Phase Noise @ 100KHz	-90dBc/Hz	
Image rejection	40dB (Min.)	
Output VSWR	2.0:1 (Typ.)	
P1dB	0dBm (Min.)	
Band switching (Low):	0Hz	
Band switching (High):	22KHz ± 4KHz	
POL switching voltage (Low)	10.514.0V	
POL switching voltage (High)	16.020.0V	



Connectors	
No of outputs	1
Connector	F-female
EAN-13	
Code	5213009761031
General	
Consumption	100mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%
Dimensions	52.5 x 38.5 x 28mm
Weight	70gr





LNB-104

QUATRO KU-BAND LNB WITH UV FILTER

The LNB-104 is a Quattro KU-band LNB of excellent perfomance. It's UV filter on the cap ensures long time longevity even under hard enviroment conditions while it's small size offer the maximum flexibility.

Technical Specifications	
Frequency	
Input range (low band)	10.7011.70 GHz
Input range (high band)	11.7012.75 GHz
Output range (low band)	9501950 MHz
Output range (high band)	11002150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +25oC	±1.0MHz (Max.)
Stability @ -30+70oC	±2.0MHz (Max.)
Gain	
Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.6dB (Typ.)
Isolation	00.15
Cross polarization (Min.)	20dB
Electrical	
Impedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)
P1dB	0dBm (Min.)
Band switching (Low):	0Hz
Band switching (High):	22KHz ± 4KHz
POL switching voltage (Low)	10.514.0V
POL switching voltage (High)	16.020.0V
Connectors	
No of outputs	4
Connector	F-female
EAN-13	
Code	5213009761062
General	
Consumption	220mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%

117 x 38.5 x 28mm

240gr



LNB-202

TWIN KU-BAND LNB WITH UV FILTER

The LNB-202 is a twin KU-band LNB of excellent perfomance. It's UV filter on the cap ensures long time longevity even under hard enviroment conditions while it's small size offer the maximum flexibility.

Technical Specifications

•	
Frequency	
Input range (low band)	10.7011.70 GHz
Input range (high band)	11.7012.75 GHz
Output range (low band)	9501950 MHz
Output range (high band)	11002150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +25oC	±1.0MHz (Max.)
Stability @ -30+70oC	±2.0MHz (Max.)
Gain	
Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.3dB (Typ.)
Isolation	
Cross polarization (Min.)	20dB
Electrical	
Ilmpedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)

Band Switching (Low):	UHZ	
Band switching (High):	22KHz ± 4KHz	
POL switching voltage (Low)	10.514.0V	
POL switching voltage (High)	16.020.0V	
Connectors		
No of outputs	2	
Connector	F-female	
EAN-13		
Code	5213009761048	
General		
Consumption	130mA (Typ.)	
Housing material	PVC with UV filter	
Operating temperature	0 °C to 40 °C	
Storage temperature	-30 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	52.5 x 38.5 x 28mm	
Weight	175gr	

0dBm (Min.)

Dimensions

Weight



LNB-404

QUAD KU-BAND LNB WITH UV FILTER

The LNB-404 is a Quad KU-band LNB of excellent perfomance. It's UV filter on the cap ensures long time longevity even under hard environment conditions while it's small size offer the maximum flexibility.

F.,,,,,,,,,,,	
Frequency	40.50 44.50 011
Input range (low band)	10.7011.70 GHz
Input range (high band)	11.7012.75 GHz
Output range (low band)	9501950 MHz
Output range (high band)	11002150 MHz
L.O. (low band)	9.75 GHz
L.O. (high band)	10.60 GHz
Stability @ +25oC	±1.0MHz (Max.)
Stability @ -30+70oC	±2.0MHz (Max.)
Gain	
Conversion gain	60 dB (Typ.)
Gain flatness	±0.5dB/27MHz
Noise figure	0.3dB (Typ.)
Isolation	
Cross polarization (Min.)	20dB
Electrical	
Impedance	75Ω
L.O. Phase Noise @ 1KHz	-75dBc/Hz
L.O. Phase Noise @ 10KHz	-80dBc/Hz
L.O. Phase Noise @ 100KHz	-90dBc/Hz
Image rejection	40dB (Min.)
Output VSWR	2.0:1 (Typ.)
output vovin	2.0:1 (1yp.)



P1dB	0dBm (Min.)
Band switching (Low):	0Hz
Band switching (High):	22KHz ± 4KHz
POL switching voltage (Low)	10.514.0V
POL switching voltage (High)	16.020.0V
Connectors	
No of outputs	4
Connector	F-female
EAN-13	
Code	5213009761055
General	
Consumption	130mA (Typ.)
Housing material	PVC with UV filter
Operating temperature	0 °C to 40 °C
Storage temperature	-30 °C to +70 °C
Humidity	Up to 90%
Dimensions	75 x 38.5 x 28mm
Weight	220gr



PROFESSIONAL BISS CAM

Conditional Access Module for BISS applications.

CAM-002 is a professional BISS CAM for 8 channel services to be used on Professional Head-end devices that can descramble multi-channels simultaneouslyy. Professional CAMs are widely used at TV stations, hotels and hospitals. They can work stably in different environment 7x24h.

CAM-002

Reception		
Encryption	BISS	
Decrypt	Multi-PIDs	
Max. number of channels	8	
Number or PIDs	64	
TS process bandwidth	Up to 96 Mbps	
User Interface		
Parental control	Yes	
Multilingual	Yes	
Plug and Play	Yes	
OTA soft download	per satellite	

EAN-13		
Code	5213009761024	
General		
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	PCMCIA Type II	
Weight	33 gr	





ACCESSORIES

Power supply unit for Cascade multiswitches





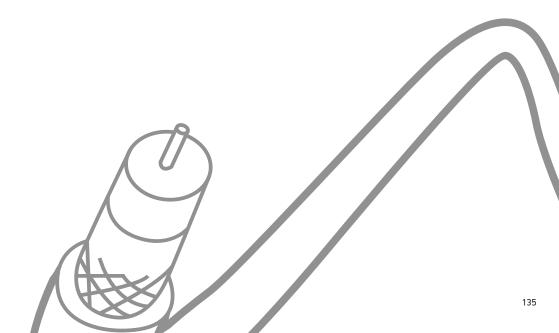
EAN-1	3
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Code	5213009760812	

General

Category	Power supply
Input	100-240VAC, 1.8A,`50/60Hz
Output	18VDC, 2.5A







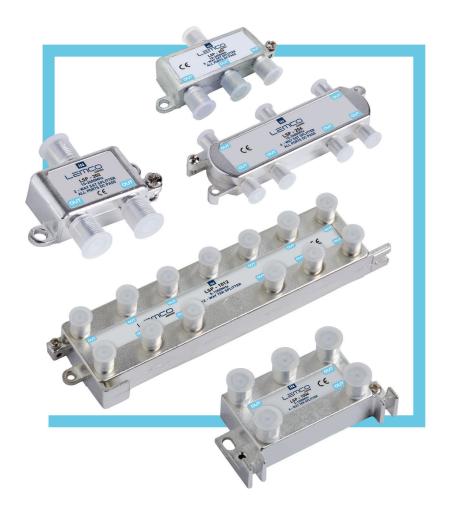






Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



RF SPLITTERS

Satellite · Terrestrial



SATELLITE

Satellite RF splitters with excellent performance and linearity.



LSP 202

Technical Specifications

Electrical	
Frequency range	10-2610MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤4.0dB
40-1000 MHz	≤4.5dB
1000-1750 MHz	≤5.0dB
1750-2400 MHz	≤5.5dB
Return Loss (in-out)	
5-40 MHz	≥10.0dB
40-1000 MHz	>12.0dB
1000-1750 MHz	>12.0dB
1750-2400 MHz	>10.0dB
Isolation (out-out)	
5-40 MHz	≥18.0dB
40-1000 MHz	≥22.0dB
1000-1750 MHz	≥20.0dB
1750-2400 MHz	≥20.0dB
All ports are DC passed	15V / 1A
Connectors	
No of inputs	1
No of outputs	2
Connector	F-female
Connector screw thread	3/8"-32UNEF inch
EAN-13	
Code	5213009760638
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	55.8 x 47.8 x 16mm
Weight	33.5 gr



LSP-203

Frequency range	10-2610MHz	
Impedance	75Ω	
Insertion loss (in-out)		
5-40 MHz	≤7.5dB	
40-1000 MHz	≤8.0dB	
1000-1750 MHz	≤9.5dB	
1750-2400 MHz	≤10.5dB	
Return Loss (in-out)		
5-40 MHz	≥10.0dB	
40-1000 MHz	≥12.0dB	
1000-1750 MHz	≥12.0dB	
1750-2400 MHz	≥10.0dB	
Isolation (out-out)		
5-40 MHz	>22.0dB	
40-1000 MHz	≥20.0dB	
1000-1750 MHz	≥20.0dB	
1750-2400 MHz	≥20.0dB	
All ports are DC passed	15V / 1A	
Connectors		
No of inputs	1	
No of outputs	3	
Connector	F-female	
Connector screw thread	3/8"-32UNEF inch	
00111100001 001 011 1111 000	0,0 0201121 111011	
EAN-13	F0120007/0//F	
Code	5213009760645	
General		
Housing material	Zinc Alloy Die-cast	
Operating temperature	0 °C to 40 °C	
Storage temperature	-10 °C to +70 °C	
Humidity	Up to 90%	
Dimensions	77 x 47.8 x 16mm	



LSP-204

Technical Specifications

ecti	

Frequency range	10-2610MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤8.0dB
40-1000 MHz	≤8.5dB
1000-1750 MHz	≤9.5dB
1750-2400 MHz	≤11.0dB
Return Loss (in-out)	
5-40 MHz	≥10.0dB
40-1000 MHz	≥12.0dB
1000-1750 MHz	≥12.0dB
1750-2400 MHz	≥10.0dB
Isolation (out-out)	
5-40 MHz	≥22.0dB
40-1000 MHz	≥20.0dB
1000-1750 MHz	≥20.0dB
1750-2400 MHz	≥20.0dB
All ports are DC passed	15V / 1A



LSP-206

Technical Specifications

FΙ	ect	ric	al

Electrical	
Frequency range	10-2610MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	<10.5dB
40-1000 MHz	<11.0dB
1000-1750 MHz	≤11.0dB <12.5dB
1750-2400 MHz	≤12.5dB <15.5dB
1/5U-24UU MHZ	≤15.50B
Return Loss (in-out)	
5-40 MHz	≥10.0dB
40-1000 MHz	≥12.0dB
1000-1750 MHz	>12.0dB
1750-2400 MHz	≥10.0dB
Isolation (out-out)	
5-40 MHz	≥22.0dB
40-1000 MHz	≥20.0dB
1000-1750 MHz	≥20.0dB
1750-2400 MHz	≥20.0dB
All ports are DC passed	15V / 1A
0	
Connectors	
No of inputs	1
No of outputs	6
Connector	F-female
Connector screw thread	3/8"-32UNEF inch
EAN-13	
Code	5213009760669
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	114.5 x 55.8 x 16mm
Weight	77.5 gr
Weigitt	77.5 gi



Connectors

1
4
F-female
3/8"-32UNEF inch
5213009760652
Zinc Alloy Die-cast
0 °C to 40 °C
-10 °C to +70 °C
Up to 90%
77 x 47.8 x 16mm
45.0 gr



LSP-208

1000-1750 MHz	Frequency range	10-2610MHz
5-40 MHz	Impedance	75Ω
5-40 MHz	In continue land (in cost)	
40-1000 MHz ≤12.5dB 1000-1750 MHz ≤14.5dB 1750-2400 MHz ≤16.0dB Return Loss (in-out) 5-40 MHz ≥10.0dB 40-1000 MHz ≥12.0dB 1000-1750 MHz ≥12.0dB 1750-2400 MHz ≥12.0dB 1750-2400 MHz ≥10.0dB Isolation (out-out) 5-40 MHz ≥22.0dB 40-1000 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1750-2400 MHz ≥20.		<12.04D
1000-1750 MHz		
1750-2400 MHz		
Return Loss (in-out) ≥10.0dB 5-40 MHz ≥12.0dB 40-1000 MHz ≥12.0dB 1000-1750 MHz ≥12.0dB 1750-2400 MHz ≥10.0dB Isolation (out-out) 5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Zinc Alloy Die-cast Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		
5-40 MHz ≥10.0dB 40-1000 MHz ≥12.0dB 1000-1750 MHz ≥12.0dB 1750-2400 MHz ≥10.0dB Isolation (out-out) 5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB All ports are DC passed 15∨ / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector Screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 11.5 × 5.8 x 16mm	1730-2400 MHZ	\$10.0db
5-40 MHz ≥10.0dB 40-1000 MHz ≥12.0dB 1000-1750 MHz ≥12.0dB 1750-2400 MHz ≥10.0dB Isolation (out-out) 5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB All ports are DC passed 15∨ / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector Screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 11.5 × 5.8 x 16mm	Return Loss (in-out)	
1000-1750 MHz ≥12.0dB 1750-2400 MHz ≥10.0dB Isolation (out-out) 5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		≥10.0dB
1750-2400 MHz ≥10.0dB Isolation (out-out) 5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector F-female Connector S-180	40-1000 MHz	
Solation (out-out)	1000-1750 MHz	≥12.0dB
5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	1750-2400 MHz	≥10.0dB
5-40 MHz ≥22.0dB 40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		
40-1000 MHz ≥20.0dB 1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8°-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	Isolation (out-out)	
1000-1750 MHz ≥20.0dB 1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	5-40 MHz	≥22.0dB
1750-2400 MHz ≥20.0dB All ports are DC passed 15V / 1A Connectors 1 No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code Code 5213009760676 General Zinc Alloy Die-cast Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		≥20.0dB
All ports are DC passed 15V / 1A Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	1000-1750 MHz	≥20.0dB
Connectors No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		≥20.0dB
No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	All ports are DC passed	15V / 1A
No of inputs 1 No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	Connectors	
No of outputs 8 Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		1
Connector F-female Connector screw thread 3/8"-32UNEF inch EAN-13 5213009760676 General Jinc Alloy Die-cast Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		
Connector screw thread 3/8"-32UNEF inch EAN-13 Code 5213009760676 General Housing material Zinc Alloy Die-cast Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		~
EAN-13 Code 5213009760676 General Housing material Housing temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		
General Zinc Alloy Die-cast Housing material O°C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	Connector Screw timeau	3/0 -32014E1 IIICH
General Housing material Operating temperature O°C to 40°C Storage temperature -10°C to +70°C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	EAN-13	
Housing material Zinc Alloy Die-cast Operating temperature 0 ° C to 40 ° C Storage temperature −10 ° C to +70 ° C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	Code	5213009760676
Housing material Zinc Alloy Die-cast Operating temperature 0 ° C to 40 ° C Storage temperature −10 ° C to +70 ° C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm	Canaral	
Operating temperature 0 °C to 40 °C Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		Zinc Alloy Dio cast
Storage temperature -10 °C to +70 °C Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		
Humidity Up to 90% Dimensions 114.5 x 55.8 x 16mm		
Dimensions 114.5 x 55.8 x 16mm		
	Weight	83.5 gr



TERRESTRIAL

Two different series of Terrestrial RF splitters with excellent performance and linearity.





LSP-102

Technical Specifications

Electrical

EAN-13

Humidity

Dimensions Weight

Operating temperature

Storage temperature

Code

General

Housing material

Electrical		
Frequency range	5-1000MHz	
Impedance	75Ω	
Insertion loss (in-out)		
5-40 MHz	≤3.5dB max	
40-470 MHz	≤3.6dB max	
470-860 MHz	≤3.8dB max	
860-1000 MHz	≤4.0dB max	
Return Loss (in-out)		
5-40 MHz	≥20.0dB	
40-470 MHz	≥20.0dB	
470-860 MHz	≥18.0dB	
860-1000 MHz	≥17.0dB	
Isolation (out-out)		
5-40 MHz	≥30.0dB	
5-40 MHz	≥30.0dB	
470-860 MHz	≥28.0dB	
860-1000 MHz	≥25.0dB	
All ports are DC Block	50V	
Connectors		
No of inputs	1	
No of outputs	2	
Connector	F-female	
Connector screw thread	3/8"-32UNEF Inch	

5213009760683

0 °C to 40 °C -10 °C to +70 °C

Up to 90% 55.8 x 47.8 x 16mm

33.5 gr

Zinc Alloy Die-cast

LSP-103

dB max dB max dB max dB max OdB max
dB max dB max dB max OdB
dB max dB max dB max OdB
dB max dB max dB max OdB
dB max dB max OdB OdB
dB max 0dB 0dB
0dB
0dB
0dB
0dB
0dB
0dB
0dB
0dB
male
-32UNEF Inch
009760690
Alloy Die-cast
to 40 °C
°C to +70 °C
010 170 0
o 90% 47.8 x 16mm
:

LSP-104



Technical Specifications

Electrical	
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤7.0dB max
40-470 MHz	≤7.0dB max
470-860 MHz	≤7.5dB max
860-1000 MHz	≤8.2dB max
Return Loss (in-out)	
5-40 MHz	≥20.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥18.0dB
860-1000 MHz	≥17.0dB
Isolation (out-out)	
5-40 MHz	≥27.0dB
5-40 MHz	≥30.0dB
470-860 MHz	≥30.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	4
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
EAN-13	
Code	5213009760706
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	77 x 47.8 x 16mm
Weight	45.0 gr

LSP-108



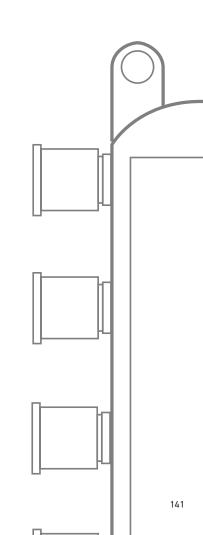
Technical Specifications

Electrical	
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤10.5dB max
40-470 MHz	≤10.5dB max
470-860 MHz	≤11.5dB max
860-1000 MHz	≤12.0dB max
B	
Return Loss (in-out)	
5-40 MHz	≥20.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥18.0dB
860-1000 MHz	≥17.0dB
Isolation (out-out)	
5-40 MHz	≥25.0dB
5-40 MHz	≥25.0dB
470-860 MHz	≥25.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	8
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
EAN-13	
Code	5213009760720
Coue	3213007700720
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0°C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	114.5 x 55.8 x 16mm
Weight	83.5 gr
	· ·

LSP-106

Technical Specifications

Electrical	
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤9.0dB max
40-470 MHz	≤9.0dB max
470-860 MHz	≤9.5dB max
860-1000 MHz	≤10.5dB max
Return Loss (in-out)	
5-40 MHz	≥20.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥18.0dB
860-1000 MHz	≥17.0dB
Isolation (out-out)	
5-40 MHz	≥25.0dB
5-40 MHz	≥25.0dB
470-860 MHz	≥25.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	6
Connector	F-female
Connector screw thread	3/8"-32UNFF Inch
	0,0 0201121 111011
EAN-13	
Code	5213009760713
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	114.5 x 55.8 x 16mm
Weight	77.5 gr
=	=



LSP-1002

Technical Specifications



Flectrical

Electrical	
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5 - 40 MHz	≤ 3.5dB max
40 - 470 MHz	≤3.6dB max
470 - 860 MHz	≤3.8dB max
860 - 1000 MHz	≤ 4.0dB max
Return Loss (in-out)	
5 - 40 MHz	≥ 25.0dB
40 - 470 MHz	≥ 25.0dB
470 - 860 MHz	≥ 22.0dB
860 - 1000 MHz	≥ 20.0dB
Isolation (out-out)	
5-40 MHz	≥30.0dB
40-470 MHz	≥30.0dB
470-860 MHz	≥28.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	2
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
EAN-13	
Code	5213009761642
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	52.5 x 38.5 x 28mm
Weight	50.0 gr

LSP-1004

Technical Specifications



Electrical

Electificat		
Frequency range	5-1000MHz	
Impedance	75Ω	
Insertion loss (in-out)		
5-40 MHz	≤7.0dB max	
40-470 MHz	≤7.2dB max	
470-860 MHz	≤7.6dB max	
860-1000 MHz	≤8.0dB max	
Return Loss (in-out)		
5-40 MHz	≥20.0dB	
(0 (70 MHz	>20 U4B	

≥20.0dB

≥20.0dB ≥20.0dB

40-470 MHz 470-860 MHz 860-1000 MHz

Isolation (out-out)		
5-40 MHz	≥35.0dB	
40-470 MHz	≥30.0dB	
470-860 MHz	≥28.0dB	
860-1000 MHz	≥25.0dB	
All ports are DC Block	50V	

LSP-1003

Technical Specifications



Electrical	
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	<5.5dB max
40-470 MHz	≤5.5dB max
40-470 MHz 470-860 MHz	≤5.50B max <6.0dB max
860-1000 MHz	≤6.0dB max <6.2dB max
860-1000 MH2	≤0.20B max
Return Loss (in-out)	
5-40 MHz	≥22.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥20.0dB
860-1000 MHz	≥20.0dB
Isolation (out-out)	, 00 0 ID
5-40 MHz	≥30.0dB
40-470 MHz	≥25.0dB
470-860 MHz	≥25.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	3
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
EAN-13	
Code	5213009761659
0000	0210007701007
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70°C
Humidity	Up to 90%
Dimensions	52.5 x 38.5 x 28mm
Weight	52.5 gr

Connectors

No of inputs	1
No of outputs	4
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch

5213009761666

EAN-13 Code

General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	75 x 38.5 x 28mm
Weight	69.0 gr



LSP-1006



Technical Specifications

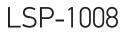
Electrical	
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤10.0dB max
40-470 MHz	≤10.0dB max
470-860 MHz	≤10.5dB max
860-1000 MHz	≤11.0dB max
Return Loss (in-out)	
5-40 MHz	≥20.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥20.0dB
860-1000 MHz	≥20.0dB
Isolation (out-out)	- 05 0 ID
5-40 MHz	≥25.0dB
40-470 MHz	≥25.0dB
470-860 MHz	≥25.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	6
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
EAN-13	
Code	5213009761673
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	117 x 38.5 x 28mm
Weight	122.0 gr
Treigni	122.0 gi



LSP-1012

Technical Specifications

Electrical		
Frequency range	5-1000MHz	
Impedance	75Ω	
Insertion loss (in-out)		
5-40 MHz	≤12.5dB max	
40-470 MHz	≤12.5dB max	
470-860 MHz	≤13.5dB max	
860-1000 MHz	≤14.5dB max	
Return Loss (in-out)		
5-40 MHz	≥20.0dB	
40-470 MHz	≥20.0dB	
470-860 MHz	≥18.0dB	
860-1000 MHz	≥17.0dB	
Isolation (out-out)		
5-40 MHz	≥25.0dB	
40-470 MHz	≥25.0dB	
470-860 MHz	≥25.0dB	
860-1000 MHz	≥22.0dB	
All ports are DC Block	50V	



Technical Specifications

•	
Electrical	•
Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	<10.5dB max
40-470 MHz	≤11.0dB max
470-860 MHz	<11.5dB max
860-1000 MHz	≤12.0dB max
Return Loss (in-out)	
5-40 MHz	≥20.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥20.0dB
860-1000 MHz	≥20.0dB
Isolation (out-out)	
5-40 MHz	≥30.0dB
40-470 MHz	≥27.0dB
470-860 MHz	≥27.0dB
860-1000 MHz	≥25.0dB
All ports are DC Block	50V
Connectors	
No of inputs	1
No of outputs	8
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
EAN-13	
Code	5213009761680
code	3213007701000
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	117 x 38.5 x 28mm
Weight	122.0 gr

Connectors

No of inputs	1
No of outputs	12
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch

5213009761697

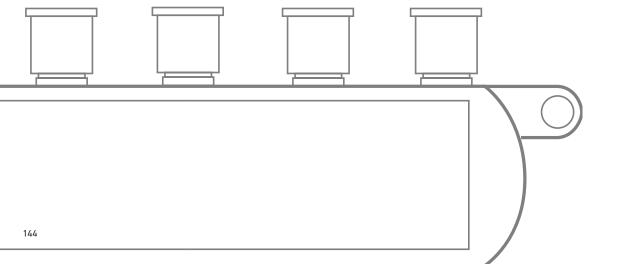
EAN-13 Code

General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	175 x 43 x 33mm
Weight	245.0 gr



LSP-1016

Frequency range	5-1000MHz
Impedance	75Ω
Insertion loss (in-out)	
5-40 MHz	≤14.5dB max
40-470 MHz	≤14.5dB max
470-860 MHz	≤15.5dB max
860-1000 MHz	≤16.0dB max
Return Loss (in-out)	
5-40 MHz	≥20.0dB
40-470 MHz	≥20.0dB
470-860 MHz	≥18.0dB
860-1000 MHz	≥17.0dB
Isolation (out-out)	
5-40 MHz	≥25.0dB
40-470 MHz	≥25.0dB
470-860 MHz	≥25.0dB
860-1000 MHz	≥22.0dB
All ports are DC Block	50V
C	
Connectors No of inputs	1
No of outputs	16
Connector	F-female
Connector screw thread	3/8"-32UNEF Inch
Connector Screw thread	3/6 -32UNEF IIICII
EAN-13	E2120007/1702
Code	5213009761703
General	
Housing material	Zinc Alloy Die-cast
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 54.5 x 35mm
Weight	335.0 gr



Lemco expanded We are growing



Estimated from 1975, Lemco main core business of designing, developing and producing appliances in-house for TV signal distribution over RF and IP.



Taking advantage of Lemco's experience in hardware, firmware and software development Lemco Development sub-branch is able to design your complete custom need for any project.



Using our more than 45 years of experience in digital technologies Lemco Integrator sub-branch offers high quality services of installation in any upcoming project.



Our passion for video games and more led to the opportunity to create a sub-branch to enter in video games development industry.

Visit our website for more information



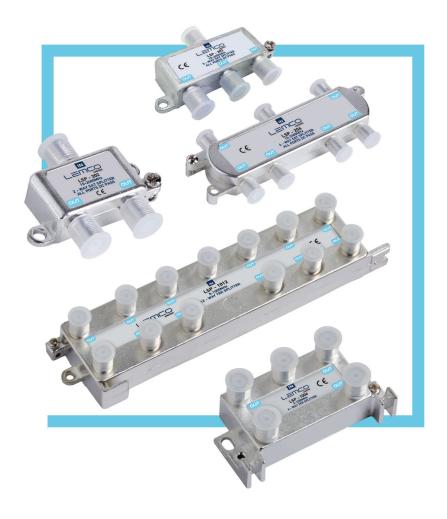






Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



RF Filters-Diplexers



BPF-118-440

VHF Band pass filter 118MHz to 440MHz



BPF-470-790

4G Band pass filter 470MHz to 790MHz

Technical Specifications

Electrical	
Frequency range	51000MHz
Impedance (IN/OUT)	75Ω
Pass Band	470790MHz
Insertion loss	2.5dB
Return loss	16dB
1st Stop Band	5440MHz
Rejection (5432MHz)	50dB
Rejection (440MHz)	32dB
2nd Stop Band	8101000MHz
Rejection (8351000MHz)	50dB
Rejection (810MHz)	20dB
Connectors	
No of inputs	1
No of outputs	1
Connector	F-female to F-male
DC Pass	No
EAN-13	
Number	5213009761413
General	
Operating temperature	0 ° C to 40 ° C
Storage temperature	-10 ° C to +70 ° C
Humidity	Up to 90%
Dimensions	42 x 13mm
Weight	55 gr

Technical Specifications

Electrical	
	51000MHz
Frequency range	
Impedance (IN/OUT)	75Ω
Pass Band	118440MHz
Insertion loss	2.5dB
Return loss	16dB
1st Stop Band	5106MHz
Rejection (5106MHz)	50dB
Rejection (110MHz)	30dB
2nd Stop Band	4601000MHz
Rejection (4681000MHz)	55dB
Rejection (460MHz)	30dB
Connectors	
No of inputs	1
No of outputs	1
Connector	F-female to F-male
DC Pass	No
EAN-13	
Number	5213009761406
General	
Operating temperature	0 ° C to 40 ° C
Storage temperature	-10 ° C to +70 ° C
Humidity	Up to 90%
Dimensions	Φ21 * 73mm
Weight	52 gr



BPF-470-694

5G Band pass filter 470MHz to 694MHz

•	
Electrical	
Frequency range	51000MHz
Impedance (IN/OUT)	75Ω
Pass Band	470694MHz
Insertion loss	± 1dB
Return loss	$\geq 14dB$
1st Stop Band	5404MHz
Rejection (5404MHz)	45dB approx.
2nd Stop Band	7631000MHz
Rejection (7631000MHz)	40dB approx.
Connectors	
No of inputs	1
No of outputs	1
Connector	F-female to F-male
DC Pass	No
EAN-13	
Number	5213009761420
General	
Operating temperature	0 ° C to 40 ° C
Storage temperature	-10 ° C to +70 ° C
Humidity	Up to 90%
Dimensions	57.5 x 17 x 17mm
Weight	27 gr



BPF-88-108

FM Band pass filter 88MHz to 108MHz



LDI-100

5-2150MHZ SAT/ANT diplexer

Technical Specifications

Electrical	
Frequency range	51000MHz
Impedance (IN/OUT)	75Ω
Pass Band	88108MHz
Insertion loss (118440MHz)	2.5dB
Return loss (118440MHz)	≥ 16dB
1st Stop Band	575MHz
Rejection (5434MHz)	52dB approx.
2nd Stop Band	1241000MHz
Rejection (440434MHz)	55dB approx.
Connectors	
No of inputs	1
No of outputs	1
Connector	F-female to F-male
DC Pass	No
EAN-13	
Number	5213009761741
General	
Operating temperature	0 ° C to 40 ° C
Storage temperature	-10 ° C to +70 ° C
Humidity	Up to 90%
Dimensions	57.5 × 17 x 17mm
Weight	27 gr

Electrical	
Impedance (IN/OUT)	75Ω
IN-ANT	
Frequency range	5806MHz
Insertion loss	≤1.5dB
Return loss	≥ 11dB
Frequency range	9502150MHz
Insertion loss	≥25dB
Return loss	N/A
IN-SAT	
Frequency range	5806MHz
Insertion loss	≥25dB
Return loss	N/A
Frequency range	9502150MHz
Insertion loss	≤1.5dB
Return loss	$\geq 11dB$
Connectors	
No of inputs	2
No of outputs	1
Connector	F-female
DC Pass	Yes
EAN-13	
Number	5213009761376
General	
Operating temperature	0 ° C to 40 ° C
Storage temperature	-10 ° C to +70 ° C
Humidity	Up to 90%
Dimensions	55.8 x 47.8 x 16mm
Weight	34 gr









Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



CONNECTORS

 $\textbf{F} \cdot \textbf{IEC} \cdot \textbf{BNC} \cdot \textbf{Adaptors} \cdot \textbf{Tools}$



F TYPE

High quality F-connectors, made of copper, providing excellent performance and electromagnetic shielding.

LFC-001





Technical Specifications

Characteristics	
Туре	F male twist-on connector
0-ring	Yes, EPDM
Cable compatibility	6.7-7.0mm outer
Lemco cable compatibility	LC-1200,LC-1401
Compatible tool	LTC-003,LTC-004
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Insertion Loss	
0.3-500 MHz	< 0,12dB
500-860 MHz	< 0,12dB
860-1000 MHz	< 0.12dB
1000-1750 MHz	< 0,16dB
1750-2150 MHz	< 0,16dB
2150-3000 MHz	< 0,20dB
Base Material	
Body Parts	Brass CuZn 39Pb3 / Zinc
Plating	
Plating Body Parts	Nickel
Body Parts	Nickel
	Nickel - 5° to + 50°C
Body Parts Temperature Installation	
Body Parts Temperature	– 5° to + 50°C
Body Parts Temperature Installation Operation	−5° to +50°C −40° to +100°C
Body Parts Temperature Installation Operation Storing	−5° to +50°C −40° to +100°C
Body Parts Temperature Installation Operation Storing EAN-13	-5° to +50°C -40° to +100°C -40° to +100°C
Body Parts Temperature Installation Operation Storing EAN-13 Code	-5° to +50°C -40° to +100°C -40° to +100°C
Body Parts Temperature Installation Operation Storing EAN-13 Code General Dimensions	-5° to +50°C -40° to +100°C -40° to +100°C 5213009761437
Body Parts Temperature Installation Operation Storing EAN-13 Code General	-5° to +50°C -40° to +100°C -40° to +100°C 5213009761437

Technical Specifications

Characteristics	
Type	F male compression
0-ring	Yes, EPDM
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-001, LTC-002, LTC-003, LTC-004
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	> 130dB @ 30-1000MHz
,	> 120dB @ 1000-3000MHz
Insertion Loss	
0,3-500 MHz	< 0,01dB
500-860 MHz	< 0,01dB
860-1000 MHz	< 0,01dB
1000-1750 MHz	< 0,01dB
1750-2150 MHz	< 0,01dB
2150-3000 MHz	< 0,01dB
Return Loss	
0,3-500 MHz	- 43,4dB
500-860 MHz	– 41,2dB

LFC-002





Technical Specifications

EAN-13 Code

Туре	F male compression connector (Su-
	preme edition)
0-ring	No
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-002,LTC-003,LTC-004

U-ring	INO
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-002,LTC-003,LTC-004
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	> 140dB @ 30-1000MHz
	> 120dB @ 1000-3000MHz
Insertion Loss	
0,3-500 MHz	< 0,01dB
500-860 MHz	< 0,01dB
860-1000 MHz	< 0,01dB
1000-1750 MHz	< 0,01dB
1750-2150 MHz	< 0,01dB
2150-3000 MHz	< 0,01dB
Return Loss	
0.3-500 MHz	– 40.6dB
500-860 MHz	- 38.4dB
860-1000 MHz	– 36,44B – 37.1dB
1000-1750 MHz	- 37,1dB - 33,9dB
1750-2150 MHz	- 31,9dB
2150-3000 MHz	– 31,7dB – 28.3dB
2130-3000 MINZ	- 20,3ub
Base Material	
Body Parts	Brass CuZn 39Pb3 / Zinc
Plating	
Body Parts	Nickel

Temperature		
Installation	− 5° to + 50°C	
Operation	- 40° to + 100°C	
Storing	-40° to + 100°C	

General	
Max. Tensile strength	230N
Dimensions	24.55*11mm (compressed)
Net weight	11.2gr
Package qty	100pcs

5213009761444



860-1000 MHz	– 39,9dB
1000-1750 MHz	– 36,7dB
1750-2150 MHz	- 34,7dB
2150-3000 MHz	– 31,1dB
Base Material	
Body Parts	Brass CuZn 39Pb3 / Zinc
Plating	
Body Parts	Nickel
Temperature	
Installation	− 5° to + 50°C
Operation	- 40° to + 100°C
Storing	– 40° to + 100°C
EAN-13	
Code	5213009761451
General	
Max. Tensile strength	260N



LFC-004





Technical Specifications

Characteristics Type	75Ω termination load connector
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	> 130dB @ 30-1000MHz > 120dB @ 1000-3000MHz
Insertion Loss	
0,3-500 MHz	< 0,01dB
500-860 MHz	< 0,01dB
860-1000 MHz	< 0,01dB
1000-1750 MHz	< 0,01dB
1750-2150 MHz	< 0,01dB
2150-3000 MHz	< 0,01dB
Return Loss	
0.3-500 MHz	– 40dB
500-860 MHz	- 40dB
860-1000 MHz	- 40dB
1000-1750 MHz	- 30dB
1750-2150 MHz	- 30dB
2150-3000 MHz	– 22dB
Base Material	
Body Parts	Brass CuZn 39Pb3 / Zinc
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nickel
Inner conductor	Gold
Temperature	
Installation	-5° to +50°C
Operation	- 40° to + 100°C
Storing	-40° to +100°C
EAN-13	
Code	5213009761468
General	
Dimensions	14.50*11mm (compressed)
Net weight	5.4gr
Package gty	100pcs
3 17	r. · · ·

LFC-005





Technical Specifications

F quick male compresion connector No 6.7-7.0mm outer
LC-1200,LC-1401,LC-1411
LTC-002,LTC-003,LTC-004
0.3-3000MHz
75Ω
> 140dB @ 30-1000MHz > 120dB @ 1000-3000MHz
< 0.01dB
< 0,01dB
- 40.6dB
- 38.4dB
- 37.1dB
- 33,9dB
- 33,7dB - 31,9dB
- 28.3dB
D 0 7 00D10 / 71
Brass CuZn 39Pb3 / Zinc
Altre
Nitin
−5° to + 50°C
-40° to + 100°C
– 40° to + 100°C
5213009761475
230N
24.55*11mm (compressed)
5gr
100pcs

LFC-006





Characteristics	
Type	F quick male push-on connector
0-ring	No
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-003,LTC-004
Electrical	0.0.00001411
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	> 140dB @ 30-1000MHz
	> 120dB @ 1000-3000MHz
In continue I are	
Insertion Loss	0.01 ID
0,3-500 MHz	< 0,01dB
500-860 MHz	< 0,01dB
860-1000 MHz	< 0,01dB
1000-1750 MHz	< 0,01dB
1750-2150 MHz	< 0,01dB
2150-3000 MHz	< 0,01dB
Return Loss	(0.4.15
0,3-500 MHz	- 40,6dB
500-860 MHz	- 38,4dB
860-1000 MHz	- 37,1dB
1000-1750 MHz	- 33,9dB
1750-2150 MHz	– 31,9dB
2150-3000 MHz	– 28,3dB

Base Material Body Parts	Brass CuZn 39Pb3 / Zinc
Plating Body Parts	Nickel
Temperature Installation Operation Storing	-5° to +50°C -40° to +100°C -40° to +100°C
EAN-13 Code	5213009761482
General Dimensions Net weight Package qty	25.55*12.95mm (compressed) 5.4gr 100pcs



IEC TYPE

The HD High quality F-connectors, made of copper, providing excellent performance and electromagnetic shielding. MOD series of HDMI DVB-T modulators provides the ability to distribute any HDMI source, i.e. coming from DVD or Blueray player over RF DVB-T.

LIC-001

Technical Specifications

Characteristics	
Type	Metal 90 degree IEC male connector
0-ring	No
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>85dB@1GHz
Insertion Loss	
0.3-500 MHz	
500-860 MHz	
860-1000 MHz	< 0,26 dB
1000-1750 MHz	
1750-2150 MHz	
2150-3000 MHz	
Return Loss	
0,3-500 MHz	
500-860 MHz	
860-1000 MHz	– 17,8 dB
1000-1750 MHz	
1750-2150 MHz	
2150-3000 MHz	
Base Material	
Body Parts	Zinc Alloy
Inner conductor	Brass
inner conductor	DIdSS
Plating	
Body Parts	Nickel
Inner conductor	Gold
Temperature	F0.1 F000
Installation	- 5° to + 50°C
Operation	- 40° to + 100°C
Storing	- 40° to + 100°C
EAN-13	
Code	5213009761499
General	
Dimensions	33.55*38.4mm
Net weight	21.4gr
Package qty	100pcs
	•

LIC-002



Technical Specifications

Characteristics	
Туре	Metal 90 degree IEC female connector
0-ring	No
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>85dB@1GHz
Sinciding Encenveness	>030D@10112
Insertion Loss	
0,3-500 MHz	
500-860 MHz	
860-1000 MHz	< 0,26 dB
1000-1750 MHz	
1750-2150 MHz	
2150-3000 MHz	
Return Loss	
0.3-500 MHz	
500-860 MHz	
860-1000 MHz	– 12,8 dB
1000-1750 MHz	
1750-2150 MHz	
2150-3000 MHz	
Base Material	
Body Parts	Zinc Alloy
Inner conductor	Brass
inner conductor	Diass
Plating	
Body Parts	Nickel
Inner conductor	Gold
Temperature	
Installation	−5° to + 50°C
Operation	- 40° to + 100°C
Storing	- 40° to + 100°C
FAN 12	
EAN-13	E2120007/1E0E
Code	5213009761505
General	
Dimensions	33.55*38.4mm
Net weight	22.2gr
Package qty	100pcs



Technical Specifications





Characteristics

Type	IEC male connector
0-ring	No
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401
Compatible tool	No tool requirement

Electrical

attenti reat	
requency	1-1000MHz
mpedance	75Ω

Insertion Loss

Return Loss

Base Material		
Body Parts	Zinc Alloy	
Inner conductor	Brass	
Plating Body Parts	Nature	
Inner conductor	Nickel	

Titlet Con

Temperature	
Installation	− 5° to + 50°C
Operation	- 40° to + 100°C
Storing	- 40° to + 100°C

EAN-13 Code

ode	521300976151

General

General		
Dimensions	40*16.4mm	
Net weight	6gr	
Package gty	100pcs	



LIC-004

Technical Specifications



Characteristics Type	IEC female connector	
O-ring	No	
Cable compatibility	6,7-7,0mm outer	
Lemco cable compatibility	LC-1200,LC-1401	
Compatible tool	No tool requirement	
Electrical		

Frequency	1-1000MHz
Impedance	75Ω

Insertion Loss Return Loss

Base Material	
Body Parts	Zinc Alloy
Inner conductor	Brass

Plating Body Parts	Nature
Inner conductor	Nickel
Temperature Installation	− 5° to + 50°C
Operation	- 40° to + 100°C

remperature		
Installation	− 5° to + 50°C	
Operation	− 40° to + 100°C	
Storing	- 40° to + 100°C	
EAN-13		
Code	5213009761529	

General	
Dimensions	39*16mm (compressed)
Net weight	6.2gr
Package qty	100pcs

LIC-006

Technical Specifications



Type	IEC female compression
0-ring	Yes, EPDM
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-001, LTC-002
Electrical	
Frequency	1-1000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
0.3-500 MHz	< 0.11 dB
500-860 MHz	< 0,15 dB
860-1000 MHz	< 0,21 dB
1000-1750 MHz	< 0,29 dB
1750-2150 MHz	< 0,35 dB
2150-3000 MHz	< 0,40 dB
Return Loss	
0.3-500 MHz	-30,1 dB
500-860 MHz	– 26,3 dB
860-1000 MHz	– 25,4 dB
1000-1750 MHz	– 23,5 dB
1750-2150 MHz	– 20,5 dB
2150-3000 MHz	– 20,0 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nitin Nitin
Inner conductor	

Temperature		
Installation	− 5° to + 50°C	
Operation	- 40° to + 100°C	
Storing	- 40° to + 100°C	
-		
FAN-13		

Code	5213009760973
General	
Max. Tensile strength	245N
Dimensions	29.35*11mm (compressed)
Net weight	17.4gr
Package qty	100pcs



Characteristics	
Type	IEC male compression
0-ring	Yes, EPDM
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-001, LTC-002
Electrical	
Frequency	1-1000MHz
lua na alamaa	7EO

Electrical	1-1000MHz	
Frequency		
Impedance	75Ω	
Shielding Effectiveness	>115dB@1GHz	
Insertion Loss		
0,3-500 MHz	< 0,11 dB	
500-860 MHz	< 0,15 dB	
860-1000 MHz	< 0,21 dB	
1000-1750 MHz	< 0,29 dB	
1750-2150 MHz	< 0,35 dB	
2150-3000 MHz	< 0,40 dB	
Return Loss		
0,3-500 MHz	- 30,3 dB	
500-860 MHz	- 27,3 dB	
860-1000 MHz	– 25,8 dB	
1000-1750 MHz	– 23,8 dB	
1750-2150 MHz	- 20.6 dB	
1730-2130 141112		

Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nitin
Inner conductor	Nitin
Temperature	
Installation	−5° to + 50°C
Operation	– 40° to + 100°C
Storing	– 40° to + 100°C
E4N 40	
EAN-13	5040000540044
Code	5213009760966
General	
	O/FN
Max. Tensile strength	245N
Dimensions	28.35*11mm (compressed)
Net weight	9.4gr
Package qty	100pcs



BNC TYPE

High quality F-connectors, made of copper, providing excellent performance and electromagnetic shielding.

Technical Specifications





Characteristics

Type	BNC male compression
0-ring	Yes, EPDM
Cable compatibility	6,7-7,0mm outer
Lemco cable compatibility	LC-1200,LC-1401,LC-1411
Compatible tool	LTC-002,LTC-003,LTC-004
•	

Electrical

Licelifeat	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	> 140dB @ 30-1000MHz

Insertion Loss

0,3-500 MHz	< 0,07dB	
500-860 MHz	< 0,10dB	
860-1000 MHz	< 0.14dB	
1000-1750 MHz	< 0,18dB	
1750-2150 MHz	< 0.21dB	
2150-3000 MHz	< 0,26dB	
Deturn Lage		

Return Loss		
0,3-500 MHz	– 34,0dB	
500-860 MHz	- 30,7dB	
860-1000 MHz	– 26,7dB	
1000-1750 MHz	– 23.4 B	
1750-2150 MHz	- 21,1dB	
2150-3000 MHz	- 19,5dB	

Base Material Body Parts

Body Parts	Brass CuZn 39Pb3	
Inner conductor	Brass CuZn 39Pb3	
Plating		
Body Parts	Nickel	
Inner conductor	Gold	

Temperature

remperature		
Installation	−5° to + 50°C	
Operation	- 40° to + 100°C	
Storing	- 40° to + 100°C	

EAN-13

ode	521300976098

General

Max. Tensile strength	250N
Dimensions	33.5*14.35mm (compressed)
Net weight	17.4gr
Package qty	100pcs



RF ADAPTORS

High quality F-connectors, made of copper, providing excellent performance and electromagnetic shielding.

LAC-001

Technical Specifications





Characteristics

Туре	90 degree F female to IEC male adaptor
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	750
	>115dB@1GHz
Shielding Effectiveness	>1130B@1GHZ
Insertion Loss	
5 - 42 MHz	< 0,01 dB
42 - 70 MHz	< 0,01 dB
70 - 300 MHz	< 0,01 dB
300 - 600 MHz	< 0,02 dB
600 - 862 MHz	< 0,03 dB
862 - 1000 MHz	< 0,03 dB
Return Loss	(2 / JD
5 - 42 MHz	– 43,6 dB
42 - 70 MHz	– 43,6 dB
70 - 300 MHz	– 43,6 dB
300 - 600 MHz	– 40,8 dB
600 - 862 MHz	– 37,6 dB
862 - 1000 MHz	– 37,6 dB
1000 - 1750 MHz	– 31,3 dB
1750 - 2200 MHz	– 29,5 dB
2200 - 3000 MHz	– 21,7 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
inner conductor	Brass Cuzn 39Pb3
Plating	
Body Parts	Nickel
Inner conductor	Silver
Temperature	
Installation	- 5° to + 50°C
Operation	- 40° to + 100°C
Storing	- 40° to + 100°C
EAN-13	
Code	5213009761536
coue	JZ13007/01930
General	
Dimensions	22*24mm
Net weight	10.4gr
Package qty	100pcs

LAC-003

Technical Specifications

F female to F female adaptor
No tool requirement
·
0.3-3000MHz
75Ω
>115dB@1GHz
< 0,01 dB
< 0.01 dB
< 0.01 dB
< 0,02 dB
< 0,03 dB
< 0,03 dB
- 43,6 dB
- 43,6 dB
- 43,6 dB

LAC-002





Characteristics	
Type	90 degree F female to IEC female adaptor
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
5 - 42 MHz	< 0.01 dB
42 - 70 MHz	< 0.01 dB
70 - 300 MHz	< 0.01 dB
300 - 600 MHz	< 0.02 dB
600 - 862 MHz	< 0.03 dB
862 - 1000 MHz	< 0,03 dB
Return Loss	
5 - 42 MHz	– 43,6 dB
42 - 70 MHz	– 43,6 dB
70 - 300 MHz	– 43,6 dB
300 - 600 MHz	– 40,8 dB
600 - 862 MHz	– 37,6 dB
862 - 1000 MHz	– 37,6 dB
1000 - 1750 MHz	-31,3 dB
1750 - 2200 MHz	– 29,5 dB
2200 - 3000 MHz	– 21,7 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	Miskal
Body Parts	Nickel
Inner conductor	Silver
Temperature	
Installation	−5° to + 50°C
Operation	-40° to + 100°C
Storing	-40° to +100°C
EAN-13	
Code	5213009761543
General	00*04
Dimensions	22*24mm
Net weight	11.2gr
Package qty	100pcs





300 - 600 MHz	- 40,8 dB
600 - 862 MHz	– 37,6 dB
862 - 1000 MHz	– 37,6 dB
1000 - 1750 MHz	– 31,3 dB
1750 - 2200 MHz	– 29,5 dB
2200 - 3000 MHz	– 21,7 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Phosphor bronze per QQ-B-750
Plating	
Body Parts	Nickel
Inner conductor	Gold
illilei colluuctoi	Gota
Temperature	
Installation	−5° to + 50°C
Operation	- 40° to + 100°C
Storing	−40° to + 100°C
EAN-13	
Code	5213009761550
code	3213007701330
General	
Dimensions	26.65*11mm
Net weight	4.8gr
Package qty	100pcs



LAC-004



Technical Specifications

Туре	F female to F quick male adaptor
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
5 - 42 MHz	< 0,01 dB
42 - 70 MHz	< 0,01 dB
70 - 300 MHz	< 0,01 dB
300 - 600 MHz	< 0.02 dB
600 - 862 MHz	< 0,03 dB
862 - 1000 MHz	< 0.03 dB
1000 - 1750 MHz	< 0,05 dB
1750 - 2200 MHz	< 0,07 dB
2200 - 3000 MHz	< 0,12 dB
Return Loss	
5 - 42 MHz	- 43.6 dB
42 - 70 MHz	- 43,6 dB
70 - 300 MHz	- 43,6 dB
300 - 600 MHz	- 40,8 dB
600 - 862 MHz	- 37.6 dB
862 - 1000 MHz	- 37,6 dB
1000 - 1750 MHz	- 31,3 dB
1750 - 2200 MHz	- 29,5 dB
2200 - 3000 MHz	– 21,7 dB
Dana Matanial	
Base Material	D C7- 20Db2
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nickel
Inner conductor	Silver
Temperature	
Installation	− 5° to + 50°C
Operation	- 40° to + 100°C
Storing	-40° to + 100°C
EAN-13	
Code	5213009761567
General	
Dimensions	25*11.35mm
Net weight	5.4gr
Package qty	100pcs

LAC-005





Technical Specifications

Characteristics	
Туре	F female to IEC male adaptor
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
5 - 42 MHz	< 0,01 dB
42 - 70 MHz	< 0.01 dB
70 - 300 MHz	< 0.01 dB
300 - 600 MHz	< 0.02 dB
600 - 862 MHz	
862 - 1000 MHz	< 0,03 dB
862 - 1000 MHZ	< 0,03 dB
Return Loss	
5 - 42 MHz	– 43,6 dB
42 - 70 MHz	– 43,6 dB
70 - 300 MHz	– 43,6 dB
300 - 600 MHz	– 40,8 dB
600 - 862 MHz	– 37,6 dB
862 - 1000 MHz	- 37,6 dB
1000 - 1750 MHz	-31,3 dB
1750 - 2200 MHz	– 29.5 dB
2200 - 3000 MHz	– 21,7 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
miler conductor	Brass call on be
Plating Death Death	Nistral
Body Parts	Nickel
Inner conductor	Silver
Temperature	
Installation	– 5° to + 50°C
Operation	-40° to + 100°C
Storing	-40° to + 100°C
EAN-13	
Code	5213009761574
General	
Dimensions	26.30*10.40mm
Net weight	5gr
Package gty	100pcs
i achage qiy	τουμές

LAC-006

Technical Specifications

Characteristics

Type	F female to IEC female adaptor
Compatible tool	No tool requirement
Plantal al	
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
5 - 42 MHz	< 0,01 dB
42 - 70 MHz	< 0,01 dB
70 - 300 MHz	< 0,01 dB
300 - 600 MHz	< 0,02 dB
600 - 862 MHz	< 0,03 dB
862 - 1000 MHz	< 0,03 dB
Return Loss	
5 - 42 MHz	- 43,6 dB
42 - 70 MHz	– 43,6 dB
70 - 300 MHz	– 43,6 dB
300 - 600 MHz	– 40,8 dB
600 - 862 MHz	– 37,6 dB
862 - 1000 MHz	– 37,6 dB
1000 - 1750 MHz	– 31,3 dB
1750 - 2200 MHz	– 29,5 dB
2200 - 3000 MHz	– 21,7 dB





Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nickel
Inner conductor	Silver
Temperature	
Installation	- 5° to + 50°C
Operation	- 40° to + 100°C
Storing	-40° to +100°C
EAN-13	
Code	5213009761581
General	
Dimensions	24.65*10.40mm
Net weight	5.4gr
Package qty	100pcs







Technical Specifications

Characteristics Type	F male to IEC male adaptor
Compatible tool	No tool requirement
Companible tool	140 toot requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	0.01 ID
5 - 42 MHz	< 0,01 dB
42 - 70 MHz	< 0,01 dB
70 - 300 MHz	< 0,01 dB
300 - 600 MHz	< 0,02 dB
600 - 862 MHz	< 0,03 dB
862 - 1000 MHz	< 0,03 dB
Return Loss	
5 - 42 MHz	– 43.6 dB
42 - 70 MHz	- 43,6 dB
70 - 300 MHz	- 43.6 dB
300 - 600 MHz	– 40,8 dB
600 - 862 MHz	- 37,6 dB
862 - 1000 MHz	- 37.6 dB
1000 - 1750 MHz	- 31,3 dB
1750 - 2200 MHz	– 29,5 dB
2200 - 3000 MHz	– 21,7 dB
2200 - 3000 141112	21,7 00
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nickel
Inner conductor	Silver
miler conductor	Sitver
Temperature	
Installation	– 5° to + 50°C
Operation	- 40° to + 100°C
Storing	– 40° to + 100°C
EAN-13	
Code	5213009761598
General	
Dimensions	27.35*11mm
Net weight	7gr
Package qty	100pcs





Technical Specifications

Type	F male to IEC female adaptor
Compatible tool	No tool requirement
Electrical	
Electrical	0.2.20001411-
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
5 - 42 MHz	< 0,01 dB
42 - 70 MHz	< 0,01 dB
70 - 300 MHz	< 0,01 dB
300 - 600 MHz	< 0.02 dB
600 - 862 MHz	< 0.03 dB
862 - 1000 MHz	< 0,03 dB
Datum Laga	
Return Loss 5 - 42 MHz	– 43,6 dB
42 - 70 MHz	– 43,6 dB
70 - 300 MHz	– 43,6 dB
300 - 600 MHz	– 45,6 dB – 40,8 dB
600 - 862 MHz	– 40,8 dB – 37,6 dB
862 - 1000 MHz	– 37,6 dB – 37,6 dB
1000 - 1750 MHz	– 37,6 dB – 31,3 dB
1750 - 2200 MHz	– 31,3 dB – 29,5 dB
2200 - 3000 MHz	– 21,7 dB – 21.7 dB
2200 - 3000 MHZ	- 21,7 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3
Plating	
Body Parts	Nickel
Inner conductor	Silver
initer conductor	Sitvei
Temperature	
Installation	– 5° to + 50°C
Operation	– 40° to + 100°C
Storing	– 40° to + 100°C
EAN-13	
Code	5213009761604
General	
Dimensions	26*11mm
Net weight	6.4gr
Package gty	100pcs
	LUCIOLS

Technical Specifications

-	
Characteristics	
Туре	90 degree IEC male to IEC female adaptor
Compatible tool	No tool requirement
Electrical	
Frequency	0.3-3000MHz
Impedance	75Ω
Shielding Effectiveness	>115dB@1GHz
Insertion Loss	
5 - 42 MHz	< 0,12 dB
42 - 70 MHz	< 0,18 dB
70 - 300 MHz	< 0,25 dB
300 - 600 MHz	< 0,31 dB
600 - 862 MHz	< 0,39 dB
862 - 1000 MHz	< 0,45 dB
Return Loss	
5 - 42 MHz	- 30,8 dB
42 - 70 MHz	- 27,3 dB
70 - 300 MHz	– 25,6 Db
300 - 600 MHz	- 24,2 dB
600 - 862 MHz	– 18,5 dB
862 - 1000 MHz	- 16,1 dB
Base Material	
Body Parts	Brass CuZn 39Pb3
Inner conductor	Brass CuZn 39Pb3





Plating	
Body Parts	Nickel
Inner conductor	Nickel
T	
Temperature	
Installation	– 5° to + 50°C
Operation	- 40° to + 100°C
Storing	- 40° to + 100°C
EAN 40	
EAN-13	
Code	5213009760997
General	
Dimensions	24*21.5mm
Net weight	10gr
Package qty	100pcs



TOOLS

Complete tool series for mounting all the available Lemco connectors.



Technical Specifications

Characteristics Type	Compression tool
Compatible Connectors	LFC-003
EAN-13 Code	5213009761611
General Dimensions	14*5cm
Net weight	385gr



LTC-002

Technical Specifications

Characteristics Type	Compression tool Supreme
Compatible Connectors	LFC-002,LFC-003,LFC-005
EAN-13 Code	5213009761628
General	10.505
Dimensions	17.5*5cm
Net weight	500ar



LTC-003

Technical Specifications

Characteristics		
Type	Cable strip tool	
Compatible Connectors	NA	
EAN-13		
Code	5213009761635	
General		
Dimensions	12*7cm	
Net weight	82gr	



LTC-004

Characteristics		
Type	Cable strip tool	
Compatible Connectors	NA	
EAN-13		
Code	5213009761000	
General		
Dimensions	12*2.5cm	
Net weight	58gr	



Theron is hunting down the competition



Theron THE-100, is a high quality and reliable "home" terrestrial digital TV receiver with DVB-T/T2 signal reception support. Theron's THE-100 powerful decoder has the ability to decode video signals compressed by the MPEG-2 algorithm, H.264 and H.265 HEVC. It has, an HDMI digital output with a maximum output resolution of up to 1080-60p, an analog Audio/Video output (CVBS) as well as a digital audio output. The THE-100 has a built-in media player for playback of different video file types (i.e. mkv, avi etc.) and audio (i.e. mp3 etc.) as well as a PVR function for recordings, using a USB 2.0 port.











Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



CABLES

Coaxial · HDMI



Coaxial

Also known as TV cables or antenna cables, 75 ohm coaxial cables are present in every building in order to transfer TV signals to TV-sets.



CABLES

now.

LC-1200 75Ω Class A CuAl

LC-1200 is a coaxial cable with a copper core and a triple shield, class A.

Technical Specifications

Construction	
Main Conduit	Φ C 1.00mm pure copper
Insulation	Φ 4.80mm skin-foam-skin
External Conductor	1st aluminum foil bonded to insula-
	tion
	+ copper tin wired mesh
	+ 2nd aluminum strip
External Investing	Φ 6.70mm PVC white lead-free
Electrical Features	
Advanced Resistance	75 ±3 0hm
Capacity	53 pF/m
Speed rate (v/c)	0.82
Investment control voltage	4 KV
Shielding (Zt)	Zt 5-30 MHz < 5 m0hm/m
Shielding (As 30-1000Mhz)	> 85 dB
Shielding (As 1000-2000 MHz)	> 75 dB
Shielding (As 2000-3000 MHz)	> 65 dB
Shielding Class (EN 50117)	A

Nominal losses (dB / 100m)	
100 MHz	6.3
400 MHz	12.5
860 MHz	19.2
1000 MHz	21.3
1500 MHz	26.2
1750 MHz	28.5
2150 MHz	32.5
2400 MHz	34
3000 MHz	38
EAN-13	
Code	5213009760607

Mechanical features	
Minimum Bending Radius	35 mm for a bend
	70 mm for repeated bends

LC-1401

LC-1401 75Ω Class A++ CuCu

LC-1401 is a coaxial cable with copper and triple shielded copper conductor that contains a wire mesh, bronze and tinned, class A++.

Technical Specifications

Construction	
Main Conduit	Φ 1.13mm pure copper
Insulation	Φ 4.80mm skin-foam-skin
External Conductor	1st aluminum strip
	+ aluminum wire mesh
	+ 2nd aluminum strip
External Investing	Φ 6.90mm PVC white lead-free
Electrical Features	
Advanced Resistance	75 ±3 0hm
Capacity	54 pF/m
Speed rate (v/c)	0.84
Investment control voltage	4 KV
Shielding (Zt)	Zt 5-30 MHz < 9 m0hm/m
Shielding (As 30-1000Mhz)	> 85 dB
Shielding (As 1000-2000 MHz)	> 95 dB
Shielding (As 2000-3000 MHz)	> 85 dB
Shielding Class (EN 50117)	A++

Nominal losses (dB / 100m)		
100 MHz	5.8	
400 MHz	11.8	
860 MHz	17.0	
1000 MHz	19.0	
1500 MHz	23.5	
1750 MHz	25.6	
2150 MHz	28.5	
2400 MHz	30.3	
3000 MHz	34.0	
EAN-13		
Code	5213009760614	
Mechanical features		
Minimum Bending Radius	35 mm for a bend	

70 mm for repeated bends

70 mm for repeated bends

LC-1411

LC-141175Ω Class A++ CuCu PET

LC-1411 is a coaxial cable with copper and triple shielded copper conductor that contains a wire mesh, bronze and tinned, class A++.

Construction	
Main Conduit	Φ 1.13mm pure copper
Insulation	Φ 4.80mm skin-foam-skin
External Conductor	1st aluminum strip
	+ aluminum wire mesh
	+ 2nd aluminum strip
External Investing	Φ 6.90mm PVC white lead-free
Electrical Features Advanced Resistance	75 ±3 0hm
Advanced Resistance	75 ±3 0hm
Capacity	54 pF/m
Speed rate (v/c)	0.84
Investment control voltage	4 KV
Shielding (Zt)	Zt 5-30 MHz < 9 m0hm/m
Shielding (As 30-1000Mhz)	10E ID
	> 105 dB
Shielding (As 1000-2000 MHz)	> 105 dB > 95 db

Shielding Class (EN 50117)	(A++)
Nominal losses (dB / 100m)	
100 MHz	5.8
400 MHz	11.8
860 MHz	17.0
1000 MHz	19.0
1500 MHz	23.5
1750 MHz	25.6
2150 MHz	28.5
2400 MHz	30.3
3000 MHz	34.0
EAN-13	
Code	5213009760621
M. J. alandard Communication	
Mechanical features	25
Minimum Bending Radius	35 mm for a bend



HDMI

Premium HDMI cables, v2.0, offering the best performance in cases we need to transfer a $4K\ HDMI\ signal.$





LHC-001

Technical Specifications

Characteristics	
Version	2.0
Max. resolution	4K @ 60Hz
Bandwidth	18 Gb/s
Encoding	8b / 10b
Audio channels	Up to 32
Electrical	
Insulation resistance	50ΜΩ
Withstanding voltage	500 VDC for 0.1s
Mechanical	
Connector	HDMI male(19pin) to HDMI male (19pin)
Material	24K Gold plated
Conductor	5C x 30AWG
Drain Wire	5C x 30AWG
Insulation	5C foamed PE
Mylar	Double AL/MY
Braid	16/4/0,11AI-MIG Tinned
Jacket	Φ 6.00mm BK PVC
EAN-13	
Code	5213009761253
Our cond	
General	0.001 /0.00
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Length	1m
Weight	0.07Kg

LHC-002

Technical Specifications

Characteristics	
Version	2.0
Max. resolution	4K @ 60Hz
Bandwidth	18 Gb/s
Encoding	8b / 10b
Audio channels	Up to 32
Electrical	
	F0140
Insulation resistance	50ΜΩ
Withstanding voltage	500 VDC for 0.1s
Mechanical	
Connector	HDMI male(19pin) to HDMI male (19pin)
Material	24K Gold plated
Conductor	5C x 30AWG
Drain Wire	5C x 30AWG
Insulation	5C foamed PE
Mylar	Double AL/MY
Braid	16/4/0,11AI-MIG Tinned
Jacket	Φ 6.00mm BK PVC
E4N 40	
EAN-13	E0100007/10/0
Code	5213009761260
General	
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Length	2m
Weight	0.11Kg
	y

LHC-003

Technical Specifications

Characteristics	
Version	2.0
Max. resolution	4K @ 60Hz
Bandwidth	18 Gb/s
Encoding	8b / 10b
Audio channels	Up to 32
Electrical	
Insulation resistance	50ΜΩ
Withstanding voltage	500 VDC for 0.1s
Mechanical	
Connector	HDMI male(19pin) to HDMI male (19pin)
Material	24K Gold plated
Conductor	5C x 30AWG
Drain Wire	5C x 30AWG
Insulation	5C foamed PE
Mylar	Double AL/MY
Braid	16/4/0,11AI-MIG Tinned
Jacket	Φ 6.00mm BK PVC
EAN-13	
Code	5213009761277
General	
	0 °C to 40 °C
Operating temperature	-10 °C to +70 °C
Storage temperature	
Humidity	Up to 90%
Length	3m
Weight	0.15Kg

LHC-005

2.0
4K @ 60Hz
18 Gb/s
8b / 10b
Up to 32
50ΜΩ
500 VDC for 0.1s
HDMI male(19pin) to HDMI male (19pin)
24K Gold plated
5C x 30AWG
5C x 30AWG
5C foamed PE
Double AL/MY
16/4/0,11AI-MIG Tinned
Φ 6.00mm BK PVC
5213009761284
52.0000120.
0 °C to 40 °C
-10 °C to +70 °C
Up to 90%
5m
0.24Kg









Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



SET-TOP-BOX

 $\mathsf{DVB}\text{-}\mathsf{T}\cdot\mathsf{T2}\cdot\mathsf{S}\cdot\mathsf{S2}$



THE-100

T/T2 H.265 TV Receiver

Theron THE-100, is a high quality and reliable "home" terrestrial digital TV receiver with DVB-T/T2 signal reception support. Theron's THE-100 powerful decoder has the ability to decode video signals compressed by the MPEG-2 algorithm, H.264 and H.265 HEVC. It has, an HDMI digital output with a maximum output resolution of up to 1080-60p, an analog Audio/Video output (CVBS) as well as a digital audio output. The THE-100 has a built-in media player for playback of different video file types (i.e. mkv, avi etc.) and audio (i.e. mp3 etc.) as well as a PVR function for recordings, using a USB 2.0 port.

THE-100 has an external 12V/1A power supply that can be easily replaced in case of failure. Furthermore, the metal case of Theron THE-100 offers an excellent electromagnetic shielding as well as an excellent heat dissipation and robustness, while its small size makes it ideal for all installations especially when there is a limited space.



Features

- DVB-T/T2 receiver
- MPEG-2, H.264 and H.265 HEVC signals decoding
- HDMI & CVBS outputs
- Digital Audio output
- Resolution up to 1080-60p
- Built-in media player
- PVR
- Metal case
- Very small size
- External power supply
- USB port for PVR function & firmware upgrade
- 2 Years Warranty



Input	
Туре	RF DVB-T/T2
Frequencies	174230 MHz & 470862 MHz
Input level	3590dBuV
Connector	75Ω - IEC, female
Decoder	
Video coding	MPEG-2/H.264/H.265 HEVC
Profile	MPEG2 MP@HL, AVC/H.264 HP@
	L4.1, MPEG4 ASP, HEVC H 265
Resolution	Up to 1920x1080-60p
HDCP support	Yes
Audio	HDMI & Mono/Stereo
Audio encoding	MPEG2, ACC, AC3
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320, 384 kbps
Leve	0.5Vpp to 1.0Vpp adjustable
Media player	
Video playback format	avi, mkv, jpg
Audio playback format	MP3, wav,AAC
PVR function	Yes
USB support	Yes, USB 2.0
EPG support	Yes
OSD	Multilingual
LCN support	Yes
LCN Providers	Nordig, ITC/UK, EICTA/Europe, New Zealand

Output	
Туре	HDMI, CVBS
Connector	Type A Standard HDMI Female RCA for CVBS
Digital Audio Output	Yes
Connector	RCA
Display	
Number of digits	Four digits
Display segments	4x7
Display color	Green
Finish	Black Mate
Color	Black
General	
Power supply	+12VDC
Power supply consumption	300 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	165.0 x 110 x 40.0 mm
Weight	0.25 Kg



THE-200

DVB-S/S2 TV Receiver

The THE-200 is a very powerful satellite receiver, able to receive satellite (DVB-S/S2), terrestrial (DVB-T/T2). Its powerful decoder of THE-200 is able to decode Mpeg2 and H.264 signals. The THE-200 supports one HDMI output up to 1920*1080 -60p resolution as well as one SCART and one optical audio coax outputs. The embedded player is capable of playing any mkv, avi, mp3, mp4 and BMP files while the user is able to use a USB stick for recording purposes.

The THE-200 uses an external 12VDC @ 1A power supply that can be easily replaced on the field without the need for returning back the receiver.

The embedded web server of the MLF-100 provides a very friendly user interface as well as the ability of remote or local control of the device via Ethernet.

Its small size and its powerful features renders the THE-200 the ideal solution in cases we want to receive satellite signal over DVB-S/S2 and display them over HDMI protocol.



Features

- DVB-S/S2 receiver
- BISS descrabling
- Mpeg-2, H.264 decoding
- HDMI & SCART outputs
- Digital Audio Output
- Resolution up to 1080-60p
- Built-in Media player
- Metal case
- Very small size
- External power supply
- USB port for PVR function & firmware upgrade



Input	
Туре	4 x DVB-S/S2/T/T2/C
Frequencies	9502150 MHz DVB-S/S2
	118900MHz DVB-T/T2/C
Connector	75Ω - F, female
LNB	
Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)
DVB-S	
Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)
DVB-S2	
Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)
Spectral inversion	Reverse, Non-reverse (automatic)

HDMI 1.4
Up to 1080 – 60p
Yes, support
Yes, support
mkv, mp4, mp3, avi, BMP
Yes
USB 2.0
1 x +12VDC
1.0A max.
0 °C to 40 °C
-10 °C to +70 ° C
Up to 90%
145 x 80 x 35 mm
0.25 Kg









Our products

Lemco specializes in the development and production of TV signal broadcasting devices as well as CATV applications. More specifically, our product lines span the following categories:



SOFTWARE

Fleex Prime · Fleex Embedded · Fleex DS · Fleex Streamer

· Fleex PBX · Fleex BMS





Fleex is a complete End-to-End IPTV and OTT middleware solution covering any need in the hospitality industry and more.



Advertise your needs and communicate your news.

Select and customize your Fleex to fit in your application and cover 100% of your needs. Controlling and setting up your Fleex platform has never been easier, all by incorporating one of the most user-friendly interfaces. Evaluate your customers' use of your services by accessing the usage data on viewed content and channels, the device statistics and peak hours.





Fleex Prime is a powerful and versatile software suite designed to cater to the specific needs of the hospitality industry. With a range of features and options, Fleex Prime provides a comprehensive solution for hotel management, including guest room management, billing and payment processing, and more. Enjoy seamless integration with your existing hardware, with Fleex Prime's advanced technology providing a user-friendly and intuitive interface. Streamline your hotel management processes with Fleex Prime, ensuring that your guests have an enjoyable and stress-free stay.

Why Fleex Prime?







Provides a centralized and easy-touse platform for managing various hotel systems and devices, offering hotel staff a comprehensive solution for hotel management. Allows hotels to automate different aspects of their property, creating a personalized guest experience while improving operational efficiency.

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Allows hotels to automate different aspects of their property, creating a personalized guest experience while improving operational efficiency.







Enhances the guest experience with interactive TV features, information, and multilingual support, providing guests with a personalized and immersive experience.

Supports leading hotel IPTV brands (LG, Samsung, Philips) and external set-top boxes for hardware flexibility, offering a range of options for hotel hardware.

Provides excellent support and training through Lemco Academy, ensuring hotels and integrators have access to the knowledge and resources they need to maximize the benefits of Fleex Prime.



Live TV / Radio

Experience endless entertainment possibilities with a state-of-the-art player for Live TV and Radio. Access a vast selection of global channels and stations, with exceptional video resolutions of up to 4K, ensuring top-notch streaming quality and compatibility with a range of devices. The intuitive interface and advanced search options make finding favorite programs easier. From catching up on the latest news to listening to favorite radio station, the player delivers a seamless and personalized viewing experience.





Pay TV

Fleex IPTV middleware offers guests access to premium pay-perview channels and movies, providing an exclusive entertainment experience right in the comfort of their own room. Guests can browse a wide selection of new releases and popular titles, from the latest blockbuster movies to popular TV shows.



Up to 8000 ready off-the-self logos!

Enhance your viewing experience with Fleex's impressive internal logo library, containing up to 8000 off- the-shelf logos from the most well-known TV providers worldwide. Choose your preferred logo icon for TV programs effortlessly, adding a personalized touch to your viewing preferences. Fleex's extensive library ensures that you can easily navigate and access your favorite channels, with a wide range of logo options available.

Search a logo in our database:





Video on demand

Fleex IPTV middleware's Video On Demand (VOD) feature is not only a vast selection of movies and TV shows, but it also provides guests with valuable information about each title. With the integration of IMDb, guests can access information such as ratings, reviews, and cast lists for each movie or TV show available in the VOD library. This feature allows guests to make informed decisions about which titles to watch, ensuring a more satisfying entertainment experience. With Fleex IPTV middleware's VOD feature, guests can enjoy their favorite content with the convenience of IMDb information, making their stay even more enjoyable and memorable.



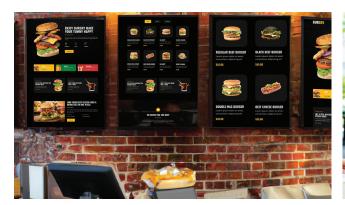
EPG Support

Experience the convenience of Fleex 's Electronic Program Guide (EPG) engine, displaying all the available information received from any live TV or radio channel in real-time. Stay informed with current and upcoming programming, program descriptions, participating actors or singers, and any other related information specific to each program. Fleex 's EPG feature provides an intuitive and user-friendly interface, allowing for easy navigation through channels and programs. Enhance your viewing experience with Fleex 's advanced EPG engine, providing you with up-to-date information and real-time program updates.



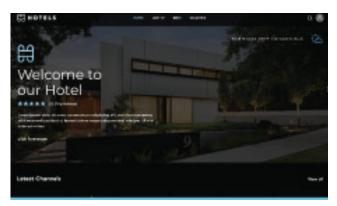
Over 120 PMS supported

This feature allows you to integrate your PMS with Fleex Prime to offer personalized information, such as room charges and checkout time, directly on your guests' in-room TV. By enabling this feature, you can automate different aspects of your property to create a personalized guest experience, such as providing room service ordering and booking amenities through Fleex Prime.



Digital Signage

Make a lasting impression on your guests and increase revenue with Fleex Prime's built-in digital signage feature. Display targeted and engaging content such as promotions, events, and news, and provide your guests with important information to enhance their experience at your hotel.



Welcome

Welcome your visitors with a personalized experience using Fleex IPTV middleware's "Welcome" feature. This powerful tool allows hotels to create custom welcome messages, videos, or photos that set the tone for the guest's stay.



Customize everything with Canvas

Experience endless entertainment possibilities with a state-of-theart player for Live TV and Radio. Access a vast selection of global channels and stations, with exceptional video resolutions of up to 4K, ensuring top-notch streaming quality and compatibility with a range of devices. The intuitive interface and advanced search options make finding favorite programs easier.



Ordering

Offer a convenient and contactless way to order food and beverage by using Fleex IPTV middleware's Ordering feature. Enable your guests to place orders directly from their in-room TV, enhancing their experience while promoting your hotel's services.



Ordering

Improve your guest experience by using Fleex IPTV middleware's Questionnaires feature to gather valuable feedback. Create custom questionnaires to gain insight into what guests like and dislike and make informed decisions to improve your services.





Housekeeping

Streamline your hotel's housekeeping operations and provide your guests with a more efficient and comfortable stay using Fleex IPTV middleware's Housekeeping feature. The feature allows your housekeeping staff to manage the status of rooms, create cleaning schedules, and prioritize tasks using a centralized and easy-to-use platform. With Fleex IPTV middleware's Housekeeping feature, you can improve your hotel's efficiency and offer your guests a more comfortable and seamless stay.

Advertisements

Generate revenue for your hotel and promote your services using Fleex IPTV middleware's Advertisements feature. This feature allows you to display targeted advertisements on your in-room TV, providing a valuable marketing opportunity for local businesses while creating an additional revenue stream for your hotel.





Points of Interest (POI)

Enhance your guests' experience and promote local attractions and events using Fleex IPTV middleware's Points of Interest (POI) feature. This feature allows you to create customized lists of nearby points of interest, including restaurants, shops, tourist attractions, and more, giving your guests easy access to valuable information about the local area.

Mobile guest app

Enhance your guests' experience and provide them with convenient access to hotel services using Fleex IPTV middleware's Guest Mobile App feature. This feature allows your guests to use their mobile devices to access various hotel services, including room service, housekeeping, watch Live TV over local Wifi and more.







Enjoy all Fleex Prime's features also including:

 BMS integration 	Media Library	Quick request
• Emergency	• Customers	• e-Forms
• Analytics	Multi-corporate	• Weather & time / date
Plane / Train Itineraries	Messages	Cloud or Local option





Introducing Fleex Embedded, the innovative solution for hotels aiming to provide their guests with a seamless and engaging experience. Our state-of-the-art platform allows you to create up to 10 customizable information pages to showcase your hotel's facilities, terms and conditions, WiFi credentials, and more. Enhance your guests' stay with visually stunning Full HD images and tailored content in multiple languages, ensuring a personalized touch for every visitor. Upgrade your hotel's communication and promotional efforts with Fleex Embedded, and watch your guest satisfaction soar!

Why Fleex Embedded?







Enhances the guest experience with interactive TV features, information and multilingual support

Features an intuitive, user-friendly interface that is easy for both hotel staff and guests to use, saving time and resources on training and support while enhancing the overall guest experience.

Operates directly from the Lemco headend, without the need for any external server, providing a simple and efficient solution for hotels to manage their TV and other systems.







Supports leading hotel IPTV brands (LG, Samsung, Philips) and external set-top boxes for hardware flexibility

Provides an affordable and transparent pricing model with one-time fee licenses

Provides free continuous updates to ensure hotels have access to the latest features and improvements without any additional costs, helping hotels enhance their guests' experience with new features and improvements.





Provides excellent support and training through Lemco Academy, helping hotels and integrators maximize the benefits of Fleex Embedded and ensuring a seamless quest experience.

Offers a scalable solution for hotels of all sizes, supporting up to 500 TVs



Live TV / Radio

Experience endless entertainment possibilities with a state-of-the-art player for Live TV and Radio. Access a vast selection of global channels and stations, with exceptional video resolutions of up to 4K, ensuring top-notch streaming quality and compatibility with a range of devices. The intuitive interface and advanced search options make finding favorite programs easier. From catching up on the latest news to listening to favorite radio station, the player delivers a seamless and personalized viewing experience.





Up to 10 Info pages

Customize your info pages with relevant content and information, such as hotel services and facilities, promotions, local attractions, and more. Fleex Embedded's info pages provide a seamless and personalized experience, allowing you to tailor your viewing preferences to your needs. Enjoy easy navigation through channels and programs, with the option to access relevant information at your fingertips.



Up to 8000 ready off-the-self logos!

Enhance your viewing experience with Fleex's impressive internal logo library, containing up to 8000 off- the-shelf logos from the most well-known TV providers worldwide. Choose your preferred logo icon for TV programs effortlessly, adding a personalized touch to your viewing preferences. Fleex's extensive library ensures that you can easily navigate and access your favorite channels, with a wide range of logo options available.

Search a logo in our database:





Unlimited languages

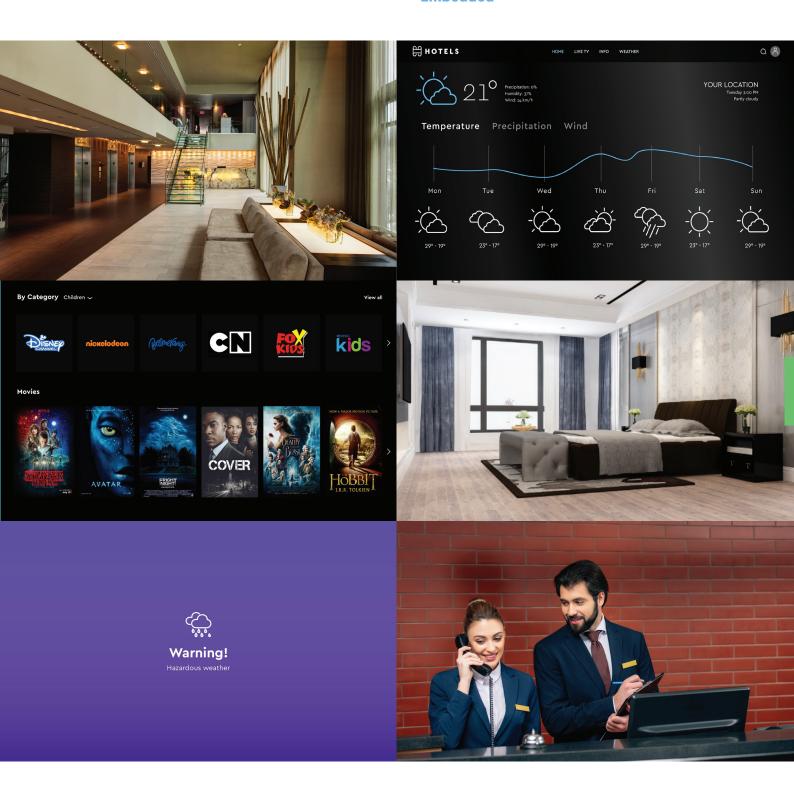
Experience the convenience of unlimited language support with Fleex. Whether you prefer to browse in your native language or need to access content in multiple languages, Fleex's unlimited language support ensures that you can enjoy your viewing experience in your preferred language. With a vast selection of languages to choose from, Fleex makes it easy to access content in multiple languages, providing a seamless and personalized viewing experience for all users. Enjoy easy navigation through channels and programs, with the option to access content in the language of your choice.



Cast

Experience endless entertainment possibilities with Fleex's advanced cast feature. Connect all your mobile devices, including Android smartphones and tablets, iPhones, iPads, and laptops, using wireless technology to share your screen on any TV monitor. With Fleex's cast feature, you can easily cast movies, TV shows, photos, entire websites, or tabs from a Chrome browser on various devices, such as Windows computers, Macs, Chromebooks, and more. Enjoy personalized and convenient viewing, with the option to access popular streaming apps such as Netflix, Spotify, Disney+, Amazon Prime, and Apple TV, among others, directly from your TV monitor. With Fleex's advanced cast feature, the entertainment possibilities are endless.





Enjoy all Fleex Embedded's features also including:

EPG Support	Weather	• Time / Date info
• Alarm	No need of external server	





Experience the power of Fleex Digital Signage (DS), a versatile software solution designed to promote and enhance your products and services. With Fleex DS, you can create dynamic and engaging content that captures the attention of your audience and communicates your message effectively. Whether you're looking to promote special offers, display product information, or provide wayfinding directions, Fleex DS provides a comprehensive and intuitive platform to meet your needs. With easy content management and distribution, Fleex DS can seamlessly integrate with your existing hardware and software, providing a hassle-free solution for all your digital signage needs. With Fleex DS, take your business to the next level with engaging and impactful digital signage.

Why Fleex DS?







Create dynamic and engaging content to capture the attention of your audience

Promote your products and services effectively with Fleex DS

Enjoy a versatile platform that can meet a range of digital signage needs even the most sophisticated scenario







Effortlessly manage and distribute content with Fleex DS's intuitive interface

Cloud interface for access from everywhere

Take your business to the next level with impactful digital signage





No tech skills required

Easy to manage and schedule



Lots of possibilities and options

Experience the unlimited possibilities and options of Fleex DS. With advanced customization tools and a wide range of features, you can create digital signage that truly reflects your brand and messaging. From dynamic video walls to interactive touchscreens, Fleex DS provides the tools you need to engage your audience and deliver impactful messaging.





Very friendly interface

Enjoy the simplicity and flexibility of Fleex DS's user-friendly interface. With intuitive controls and easy-to-use scheduling tools, you can manage your digital signage with ease. Whether you're updating your messaging or scheduling content in advance, Fleex DS's interface makes the process seamless and stress-free.

Works on any screen

Display your content on any screen with Fleex DS's versatile compatibility. Whether you're using a large-format display or a small-screen device, Fleex DS provides the flexibility to adapt to your needs. With support for a wide range of media formats and display options, Fleex DS is the ultimate solution for any digital signage installation.



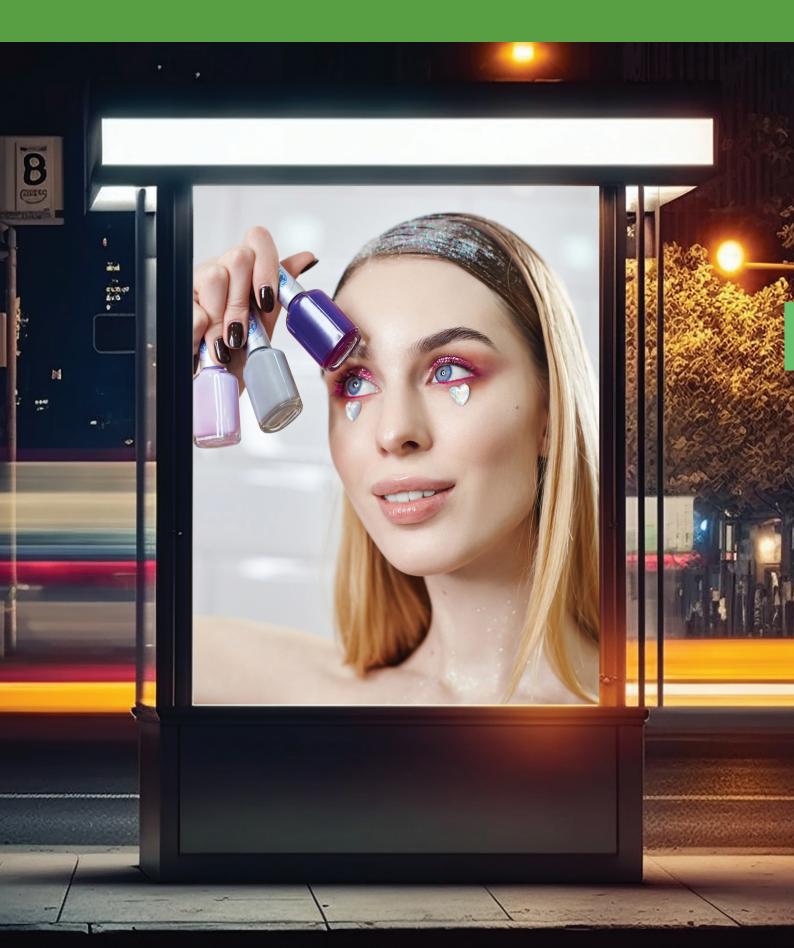


Easy scheduling

Schedule your content with ease using Fleex DS's intuitive scheduling tools. With advanced scheduling options, you can create a customized content calendar that reflects your specific messaging needs. From single displays to multiple locations, Fleex DS provides the tools you need to manage your digital signage with ease.

Cloud based

Enjoy the ultimate convenience and security of Fleex DS's cloud-based infrastructure. With Microsoft Azure hosting, Fleex DS provides top-of-the-line security and performance for your digital signage needs. From advanced encryption to real-time monitoring, Fleex DS's cloud-based solution provides a hassle-free solution for all your digital signage needs.







Fleex Streamer is the perfect solution for seamless real-time streaming of video and audio content in various formats and protocols. With its ability to transmux, transrate, transize, and transcode, it offers unparalleled flexibility in converting video and audio streams in real-time. Its support for a wide range of protocols, including UDP, RTP, RTMP, RTSP, RTCP, WebRTC, HLS, LHLS, MPEG-DASH, FLV, SRT, and HTTP, means that you can stream your content over any network, no matter the conditions.

Fleex Streamer supports all major video and audio codecs, including MPEG-2, MPEG-4, H.264/AVC, HEVC/H.265, VP8, VP9, MPEG-2, AAC, AC-3, MP3, and NDI, making it the perfect tool for delivering high-quality, high-definition content to your audience. Its ability to work with a variety of containers, including .mp4, .mkv, .mov, .avi, .ts, .m2ts, and .flv, ensures that your content is easily accessible and compatible with any device.

Whether you're a hotel, a hospital, an airport, or any business that relies on real-time streaming of video and audio content, Fleex Streamer is the ultimate solution for your needs. With its advanced capabilities and support for a wide range of protocols and codecs, it offers unparalleled flexibility, reliability, and performance that will exceed your expectations.

Why Fleex Streamer?



Transmuxing (Change the container using the same format)



Transrate (Change the bitrate using the same format)



Transize (Change the resolution using the same format)



Transcode (change the codec)

Input protocols

Fleex streamer is able to receive and support the following protocols:

- UDP (MPEG-TS)
- RTP
- RTMP
- RTSP
- RTCP
- WebRTC
- HLS

- LHLS
- Mpeg-DASH
- FLV
- SRT
- HTTP
- Local file

Transcoder - Supported CODECS

Fleex streamer is able to do real-time transcoding using Nvidia GPU (Cuda cores) supporting the following:

Video

- Mpeg2
- H.264/AVC
- HEVC/H.265
- VP8 and VP9
- Audio
- Mpeg2
- AAC • AC-3
- Mp3
- NDI

Containers

Fleex streamer supports the following containers:

.mp4 .ts .mkv .m2ts .flv

.mov .avi

Output protocols

Fleex streamer is able to convert any stream at the following protocols:

- UDP (MPEG-TS)
- RTP
- RTMP
- RTSP
- RTCP WebRTC

- LHLS
- Mpeg-DASH
- FLV
- SRT
- HTTP • Local file
- HLS

NVIDIA Cuda cores

Fleex Streamer leverages the powerful performance of Nvidia CUDA cores for lightning-fast real-time transcoding of video and audio streams. This advanced technology allows for seamless conversion of various video and audio formats, ensuring smooth delivery of content to viewers across multiple platforms. With Fleex Streamer and Nvidia CUDA cores, you can enjoy highquality video streaming with reduced latency and improved overall performance.

Multiple Outputs

Fleex Streamer is an advanced real-time application developed by Lemco that allows for the simultaneous reception of a single streams and its conversion to multiple output formats in realtime. With the ability to transmux, transrate, transcode, and transize, this powerful software can change the container, bitrate, resolution, and codec of a stream to ensure compatibility with a wide range of devices and platforms.







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