

# HDMOD-5L,5S,5F

## “Home” modulator

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



Leading the signal  
all over the world

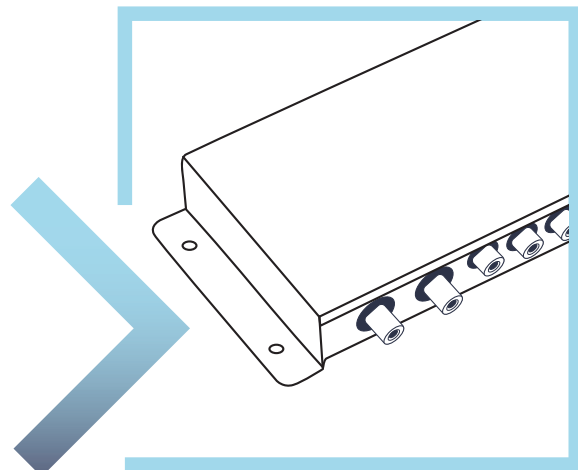


# HDMOD-5L

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 rigidity.



## 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



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

# HDMOD-5L

### Technical Specifications



#### Input Specifications

Type	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	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

#### RF Output

Type	RF DVB-T (COFDM)
Output frequencies	174...230 MHz & 470...862 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
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#### General

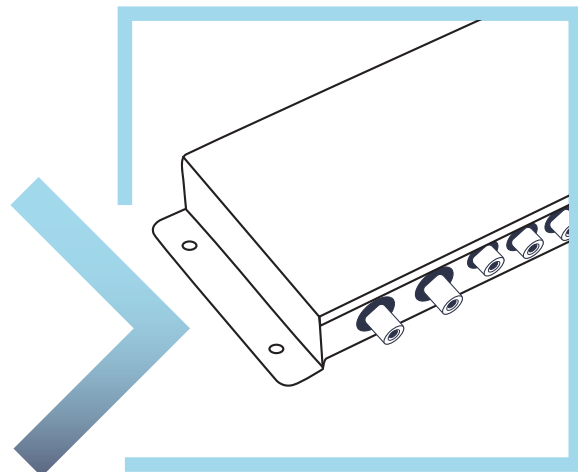
Power supply	+12VDC
Power supply consumption	290 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	160.0 x 89.3 x 28.4 mm
Weight	0.25 Kg

# HDMOD-5S

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 rigidity.



## 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



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

## HDMOD-5S

### Technical Specifications



#### Input Specifications

Type	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	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

#### RF Output

Type	RF DVB-T (COFDM)
Output frequencies	174...230 MHz & 470...862 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

#### IR Transmitter

Output frequency	10.7MHz
Working frequencies	5...862MHz
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	
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-13

Code	5213009760911
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#### General

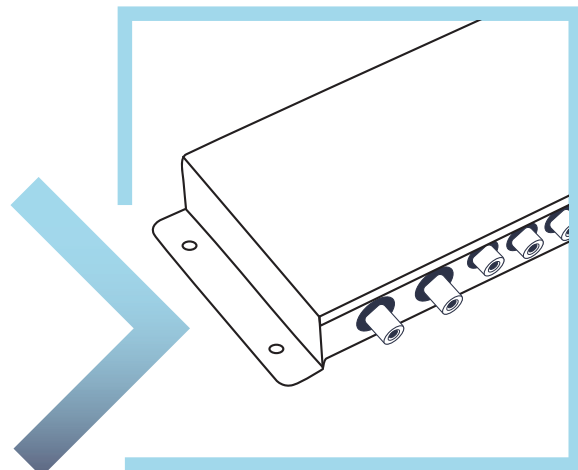
Power supply	+12VDC
Power supply consumption	290 mA max.
Operating temperature	0 °C to 50 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	160.0 x 89.3 x 28.4 mm
Weight	0.25 Kg

# HDMOD-5F

The HDMOD-5F 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 HDMOD-5F 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-5F's small size and metal case provides excellent electromagnetic shielding as well as great temperature dissipation and rigidity.



## 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



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

## HDMOD-5F

### Technical Specifications



#### 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

#### RF Output

Type	RF DVB-T (COFDM)
Output frequencies	174...230 MHz & 470...862 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

#### IR Transmitter

Output frequency	10.7MHz
Working frequencies	5...862MHz
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 STD-T66 (Japan)
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#### Platform support

Android version 5.1 and above	iOS version: 9.3 or above iPhone: 4S or newer iPad: 3rd gen or newer
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#### EAN-13

Code	5213009760928
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#### 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 Kg

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