

ST-7632

HDMI to RF Modulator - DVB-T, ISDB-T & DVB-C

- Distribute HDMI source videos from set-top box, DVD player, surveillance camera, or video streaming device to TVs over coax network
- Compact, reliable, durable, expandable and cost-effective HDMI to RF modulator for home and business applications
- Convert any HDMI or AV source in 576i(PAL)/480i(NTSC), 720p/1080i/1080p resolution to TV channel in DVB-C, DVB-T or ISDB-T signal
- Add extra High-Definition quality H.264 (MPEG-4) video with AC3 Dolby audio to the existing Broadcasting or Cable TV channel
- HD video resolution up to 1080p/i @ 30 fps
- Adjustable output power from 10 to 40 dBmV
- Intuitive on-panel 2.4" LCD and keypad operation
- HDMI loop out port
- Software upgrade and file transfer via USB
- Output frequency 100 to 860MHz with 6MHz, 7MHz or 8MHz channel bandwidth
- DVB-T/ISDB-T antenna, CVBS AV and HDMI input interfaces

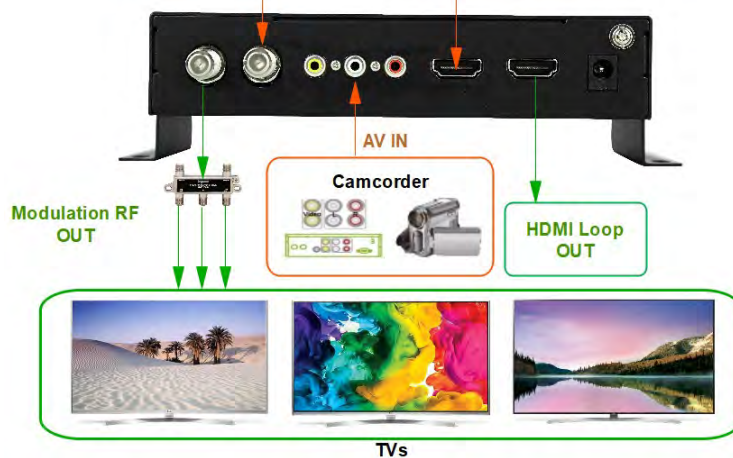


ST-7632 HDMI to RF Modulator Delivers 1080p HDMI Video to TVs as Cable TV or Terrestrial Channel over Coax Network

- **Input**
 - HDMI
 - Antenna 75Ω F
 - RCA AV Jack



- **Output**
 - 75Ω F DVB-C J.83A or DVB-T or ISDB-T



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LCD Configuration Menu

Modulation (Quick Install)

- ◆ Country press ◀▶ to show the country list, ▲▼ to select country.
- ◆ Channel Plan press ◀▶ to show the channel table to select, ▲▼ to traverse; press OK to select HDMI output frequency from channel table.
- ◆ Frequency press OK to edit HDMI output frequency, ◀▶ to move cursor and ▲▼ to change frequency in modulation range; press RETURN to save and escape.
- ◆ RF Output Level press ◀▶ to change RF output level between 70 and 100 dBμV.
- ◆ Bandwidth press ◀▶ to change modulation channel bandwidth.
- ◆ Signal Source press ◀▶ to select HDMI (digital) or CVBS (optional composite analog) signal source.
- ◆ LCN press OK to edit LCN, ◀▶ to move cursor and ▲▼ to change LCN; press RETURN to save and escape.
- ◆ Channel No. press OK to edit HDMI channel number, ◀▶ to move cursor and ▲▼ to change channel number; press RETURN to save and escape.
- ◆ Subchannel No. press OK to edit HDMI subchannel number, ◀▶ to move cursor and ▲▼ to change subchannel number; press RETURN to save and escape.
- ◆ Program Name press OK to edit program name with alphanumeric soft keypad; press RETURN to save and escape.
- ◆ Remote Key ID Press ◀▶ to edit ID number for sorting of TV program in ISDB-T modulation.
- ◆ Area Code Press ◀▶ to edit the area code in ISDB-T modulation.

DVB Settings

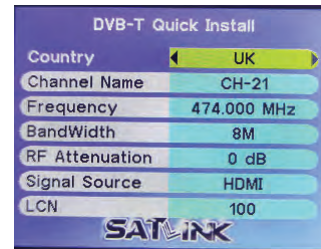
- ◆ Technique Press ◀▶ to change modulation technique.
- ◆ Symbol Rate press OK to edit symbol rate in MHz, ◀▶ to move cursor and ▲▼ to change symbol rate.
- ◆ Code Rate Press ◀▶ to change code rate.
- ◆ Carrier Type Press ◀▶ to change carrier type.
- ◆ Guard Interval Press ◀▶ to change guard band interval.
- ◆ Interleaving Press ◀▶ to change interleaving.

Transport Stream (TS) Settings

- ◆ NID Network ID between 1 and 65535.
- ◆ ONID Organization Network ID between 1 and 65535.
- ◆ TSID Transport Stream ID between 1 and 65535.
- ◆ SID Service Stream ID between 1 and 65535.
- ◆ PMT PID Program Map Table (PMT) Packet ID (PID) between 1 and 8191.
- ◆ Video PID Video Packet ID (PID) between 1 and 8191.
- ◆ Audio PID Audio Packet ID (PID) between 1 and 8191; press OK to edit IDs, ◀▶ to move cursor and ▲▼ to change values; press RETURN to save and escape.
- ◆ Service Provider press OK to edit service provider name with alphanumeric soft keypad; press RETURN to save and escape.
- ◆ Network Name press OK to edit network name with alphanumeric soft keypad; press RETURN to save and escape.

System Setup

- ◆ OSD Language press ◀▶ to change on-screen-display language.
- ◆ Modulator Type press ◀▶ to change modulator type.
- ◆ Key Tone press ◀▶ to toggle keypad beep sound between ON and OFF.
- ◆ Factory Reset press OK to reset and restore factory defaults.



ST-7632 Specification (subject to change without notice)

Modulation Attributes

DVB-T

- ◆ Frequency Range 50 MHz to 860 MHz
- ◆ Channel Bandwidth 6 MHz (Colombia/Panama), 7 MHz (Australia), 8 MHz (Europe, New Zealand)
- ◆ Technique 16QAM, 64QAM, QPSK
- ◆ Carrier Type 2K, 8K
- ◆ Code Rate 1/2, 2/3, 3/4, 5/6, 7/8
- ◆ Guard Interval 1/4, 1/8, 1/16, 1/32

DVB-C

- ◆ Frequency Range 50 MHz to 860 MHz
- ◆ Channel Bandwidth 8 MHz
- ◆ Symbol Rate *editable*, 6.875 kbps
- ◆ Technique 16QAM, 32QAM, 64QAM, 128QAM, 256QAM

ISDB-T(b)

- ◆ Frequency Range 50 MHz to 860 MHz
- ◆ Channel Bandwidth 8 MHz
- ◆ Technique 16QAM, 64QAM, DQPSK, QPSK
- ◆ Carrier Type 2K, 4K, 8K
- ◆ Code Rate 1/2, 2/3, 3/4, 5/6, 7/8
- ◆ Guard Interval 1/4, 1/8, 1/16, 1/32
- ◆ Interleave Mode 1, Mode 3, Disabled. Used for robustness of Forward Error Correction (FEC).

Video Quality

Video quality is optimized by determining the size and the speed to transmit MPEG packets to the TV.

The packet latency and delay variation are adjusted automatically by the Modulator to reach the best video quality and performance on the TV.

- H.264 encoding support is required by the DVB-T service.
- No HDCP (High-bandwidth Digital Content Protection) agreement (e.g. Blue-Ray Disc) is not supported.

Audio Codec

Audio encoding is automatically selected by the Modulator to reach the best quality according to local modulation technique.

MPEG MPEG-2 Layer 1 audio coding applies to DVB-T broadcasting in Europe and South America.

ACC Advanced Audio Coding for MPEG-4 applies to ISDB-T broadcasting in South America.

Safety Instructions

Basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement; only clean with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.
- Do not remove the cover of the modulator, cover the modulator with thick or heavy objects.
- Use only the power cord indicated in this manual if applicable.

Warranty

This device has two-year Limited Hardware Warranty and 90-day free software updates after purchase. This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from State to State in the United States, from province to province in Canada, and from country to country elsewhere in the world. To the extent that this Limited Warranty Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.

Modulation			
Output Frequency	50 to 860 MHz, 1 kHz Step		
Output Level	70 to 100 dBmV, 1 dB Step		
Encoding	H.264 MPEG-4/AVC; 1 to 20 Mb/s compression bitrate		
Interface	HDMI x 2, 75Ω F x 2, RCA AV x 1		
Video	CVBS (Optional)		
	Resolution	576i PAL 480i NTSC	
	HDMI		
	Resolution MPEG-2 CVBS (PAL, NTSC)	Input	Output
		1920 x 1080_60p	1920 x 1080_30p
		1920 x 1080_50p	1920 x 1080_25p
		1920 x 1080_60i	1920 x 1080_30i
		1920 x 1080_50i	1920 x 1080_25i
	1280 x 720_60p	1280 x 720_30p	
	1280 x 720_50p	1280 x 720_25p	
Aspect Ratio	16:9; 4:3		
Audio	Encoding	MPEG-2 AAC	
	Sampling Rate	48 kHz	
	Bit Rate	64, 96, 128, 192, 256, 320 kbps	
General			
Power Supply	12 VDC, 1.5A		
Dimensions with Rack	8" x 5.35" x 2" (204 x 136 x 51 mm)		
Weight	1 lb (0.45 kg)		
Temperature	0 to 50 °C (Operation) -20 to 80 °C (Storage)		