

MOD103T HDMI to COFDM Modulator

Article No.: 300128



The TRIAX MOD103T is an HDMI to COFDM modulator designed to convert a single HDMI input into a DVB-T (COFDM) RF output channel. The modulated signal can be distributed to multiple televisions over an existing coaxial network.

The unit supports integration with existing RF signals and enables remote control of the HDMI source via IR over coaxial infrastructure.

Key Features

- HDMI input with loop-through output for local display
- Conversion of HDMI signal to COFDM (DVB-T) RF output
- RF input pass-through with signal combining capability
- Dual RF outputs (RF Out 1 / RF Out 2)
- Adjustable RF output level control
- IR return path over coaxial cable for remote source control
- Compatible with multiple HDMI sources (e.g. set-top box, Blu-ray, CCTV)
- From production week **38/2025**:
 - o **Supports 1080p at 50/60 Hz**
 - o Increased **maximum video bit rate from 12 Mbps to 18 Mbps**
- Delivered with UK, EU and NZ/AU power plug

Technical specifications

Source input	
Input channel	1
video	HDMI 1.4
Video system	480i/576i/720p/1080i/p
Audio	HDMI
RF output	
Type	1 multiplex DVB-T with a digital service
Frequency	177-858 MHz
MER	30dB Min.
Output level	95dB μ V
RF Level adjustment	1dB per step
Attenuation step	0 - 30dB
Compression	
Video	H.264 baseline profile level 4.0
Video resolution	1080p 25/30 max
Video bit rate	12 Mbps. Max
Audio	MPEG-2 / AAC
Audio bit rate	192 Kbits/s
DVB insertion tables	SDT, NIT
Editable field	Service Name, Provider Name, Service ID, LCN, NIT Version, TS ID, Network name, Network ID, Original Network ID, Country
Connections	
HDMI IN	HDMI IN
HDMI OUT	HDMI pass through
RF output	2 RF outputs (one providing accessory power supply 9 Volts DC for IR pass)
DC switch	Power supply 9 Volts DC for IR pass
RF INPUT	RF combiner (with LTE filter)
USB	Firmware upgrade
IR OUT	IR emitter output
GENERAL	
Modulation	Standard DVB-T (ETSI EN 300 744) 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 FFT Carrier Mode: 2K, 8K Bandwidth: 6MHz, 7MHz, 8MHz
Power supply	12 VDC
Display	LCD panel, 2x16 characters
Dimensions	220 x x106 x 32mm
Environmental for operating	Temperature: 5°C - 40°C, Relative humidity: 80%@30°C