Televes reserves the right to modify the product

IP Modulator Encoder A/V - IP or IP - DVBT/DVBC (QAM Annex A)

Two modules in one

Device with two operation modes: as an AV - IP / RF Encoder converting Audio/Video signals into an IP stream and multiple RF signals (DVB-T or DVB-C), or as an AV/IP - RF Encoder converting Audio/Video signals and IP streaming services into one multiple RF channel (DVB-T or DVB-C).

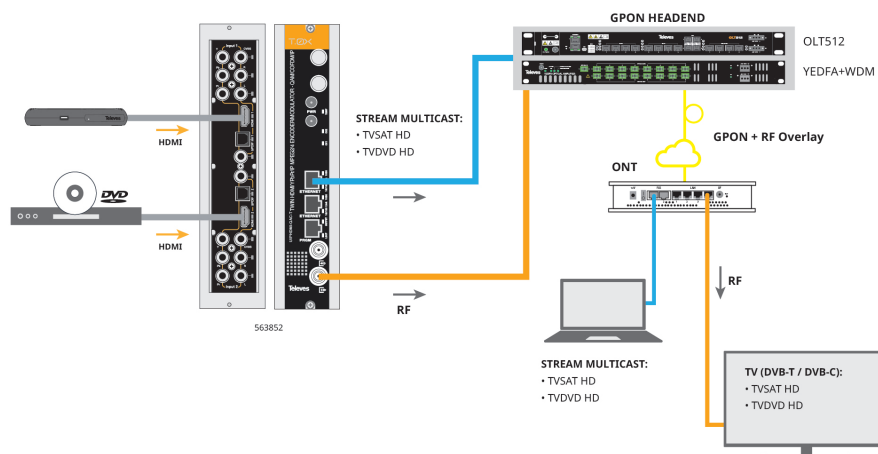| Ref.563852	
Art.Nr	UIPHDMI-QAC-T
EAN13	8424450180204

Highlights

- Perfect image and audio synchronization
- Compatible with multiple formats, resolutions, and TV set sizes
- Editing of all the modulation and encoding parameters
- Configurable via web interface or PCT5.0 programmer
- High output power without the need for extra amplification
- Multi-standard output format
- Excellent output quality (MER>40 dB)
- Device monitoring and signal status LED diodes
- Energy-efficient thanks to their low power consumption
- Integrated RF combiner and Ethernet switch
- Remote firmware update
- Configuration via a web interface embedded in the encoder

Main features

- Multiple input signal types: HDMI, CVBS, YPbPr, SPdIf audio (ref.563832), etc.
- HDCP (High-bandwidth Digital Content Protection) function, which can be disabled by the owner with the content provider's authorization

https://www.televes.com

Application example

STREAM MULTICAST:
• TVSAT HD
• TVDVD HD

GPON HEADEND
OLT512
YEDFA+WDM

GPON + RF Overlay

ONT

HDMI

HDMI

563852

RF

RF

STREAM MULTICAST:
• TVSAT HD
• TVDVD HD

TV (DVB-T / DVB-C):
• TVSAT HD
• TVDVD HD

AV - IP / RF MODE

The Encoder / Modulator generates a RF Mux and a Multicast stream with A/V signals.

The multicast stream with A/V services are distributed through the data network and they are recceived in devices and specific applications.

The RF Mux is received by the TV's with the same content.

This application is recommended in FibreData solutions which need an optimisation of the RF Overlay bandwidth (reallocation of A/V services between the data network and the TV network).

Technical specifications

INPUT		
Video		2 sets 3 x RCA (Y, Pb, Pr) 2 sets 1 x RCA (CVBS)
Audio		2 sets 2 x RCA (L, R) 2 sets 1 x RCA (Digital) 2 sets 1 x Toslink (Optical)
Video + Audio		2 sets 1 x HDMI
IP Multicast		2 ports RJ45 switch Gbe SPTS or MPTS (UDP/RTP)
VIDEO ENCODER		
Output format		MPEG-2 / H264
Resolution		480i, 480p, 576i, 576p, 720p, 1080i & 1080p Auto-scan of input resolution (1)
Aspect ratio		4:3, 16:9 y pass through
GOP		10, 12, 15, 16, 18, 20, 24 ó 30
AUDIO ENCODER		
Output format		Dolby Digital AC-3 only Digital Loop) or MPEG1 Layer2 (analogue input HDMI PCM)
Sampling rate	kHz	48
Output		
Frequency bands	MHz	46...862
Maximum output level	dBµV / dBmV	115/55 (103/43 with active loop-through)
MER	dB	>40
Spurious	dBc	-60
Annex A QAM	Modulation		16, 32, 64, 128, 256
	BaudRate	Mbaud	6,9
	Roll-off	%	15
	Code		Reed Solomon
	Spectrum mode		Normal / Inverted
	Frequency steps	kHz	250
COFDM	Modulation		QPSK, 16QAM, 64QAM
	Guard interval	µS	1/4, 1/8, 1/16, 1/32
	FEC		1/2, 2/3, 3/4, 5/6, 7/8
	Bandwidth	MHz	6, 7, 8
	Cell_id		Yes
	Frequency steps	kHz	125 / 166
IP	Transport Stream SP/MP		2 SPTS IP multicast outputs (UDP o RTP) / 1 MPTS output

PSI	Transport Stream ID		Editable
	Original Network ID		Editable
	Network ID		Editable
	LCN		Editable
	NIT		Editable
	SDT		Editable
	Tipo LCN		Generic / UK / NorDig V1 / NorDig V2
	Network Name		Editable
	Service PID		Editable
	Service Name		Editable
	Service ID		Editable
General			
Voltage		Vdc	24
Consumption		W	<20,4
Protection index		IP	20

(1) The output resolution is the same as the input signal source.