

T.OX HDMI ENCODER DUAL IP REF.563805



TWO MODULES IN ONE

CONTENT IP STREAMER OR IP/AV TO RF MODULATOR

- Two operating modes: AV to IP/RF or IP/AV to RF
 High output signal power without additional amplification
 Configurable output QAM Annex A or B and IP
 Energy efficient due to its low power consumption
 - HBIX









HDTV

MANAGEMENT

LOW CONSUMPTION

H.264 STANDARD DOLBY *







IP ENCODER MODULATOR

DESCRIPTION

An "Encoder / Modulator" is a device that generates a QAM channel which includes Audio / Video services from other devices like cameras, computers, TVSAT receivers, etc.

The Encoder / Modulator ref. 563805 also streams multicast IP.

The device has two operating modes:

AV - IP/RF Encoder

It transforms two Audio / Video signals into an IP stream or into a RF multiplex (QAM Annex A or Annex B). In this mode, the Audio / Video content (input from HDMI or YPbPr with CC* option) is available for a multicast stream in the IP output and also as a RF multiplex (QAM Annex A or B).

AV/IP - RF Encoder

It transforms two Audio / Video signals or IP streaming services into a RF multiplex (QAM Annex A or B). This configuration allows the creation of multiple RF (QAM Annex A or B) with content transmitted through IP multicast and Audio / Video signals (cameras, STB, DVD, computers, etc.) from an HDMI connection, YPbPr or with optional CC*.

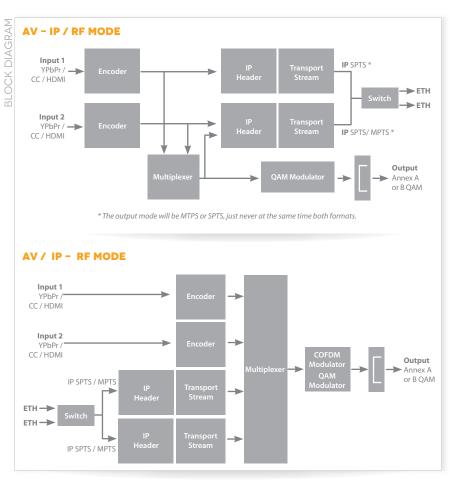
* CC: Closed Caption.

HIGHLIGHTS

- Easy and intuitive installation thanks to the built-in web server
- High output level with no need for extra amplification.
- Multi-standard output format.
- Monitorisation of the device and the signal through LFDs on the unit.
- The IP Encoder / Modulator has a MPTS mode (two input connections for the same IP) or **SPTS** (two input connections for two different IP's).



- Compatible with many formats, resolutions and TV screen dimensions.
- Different Audio/Video input types (HDMI, CC, YPbPr, audio SPdIf)
- Multiplexing 4 sets of services at the same time (2 IP and 2 A/V)
- Output video format: MPEG-2 or MPEG-4 (H.264)
- Annex A or B QAM output
- Integrated input loop through
- Excellent quality RF signal created (MER > 40dB)



 REF.
 DESCRIPTION
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 563805
 T.OX HDMI ENCODER/MODULATOR - DUAL HDMI COMPONENT/IP TO OAM/IP
 8424450186220



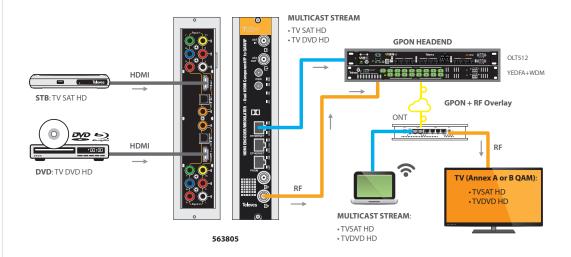
AV / IP - RF MODE ISP **HDMI** MULTICAST STREAM: • Service 1 STB: TV SAT HD • Service 2 • Service 3 Service 4 **HDMI** DVD: TV DVD HD TV (Annex A or B QAM): •TVSAT HD • TVDVD HD Service 2 563805

The Encoder / Modulator generates a RF Mux with services transmitted through IP Multicast, supplied by an operator and with A/V signals.

The Mux with all the services is distributed through the coaxial network and is received by the TV's.

In the example, the amount of services in the output RF MUX will vary depending on the modulator's configuration and the capacity available on the MUX.

AV - IP / RF MODE



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

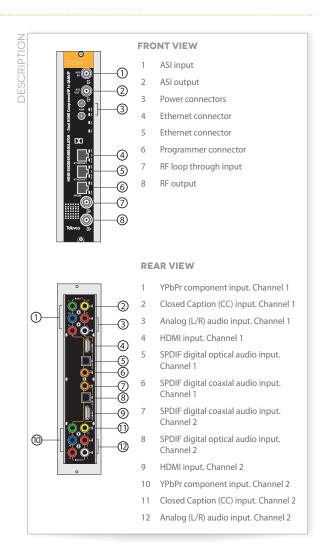
The multicast stream with A/V services are distributed through the data network and they are received in devices and specific applications.

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).

IP ENCODER MODULATOR

SN	INPUTS			
ECHNICAL SPECIFICATIONS	Video	Connectors		2 sets - 3x RCA for Video (Y, Pb, Pr)
X		Connectors		2 sets - 2x RCA for Analog Audio (L, R)
Ĕ	Audio			2 sets - 1x RCA for Digital Audio
Ш				2 sets - 1x Toslink for Digital Audio (Optical)
S	Video + Audio	Connectors		2 sets - 1xHDMI
Ä	Closed Captioning	Connectors		2 sets - 1x RCA (CC in)
$\frac{1}{2}$	Connectors			1x BNC
프	ASI	Format		DVB-ASI
Ĭ		Standard		ETSI EN 50083-9
		Connectors		2x RJ45 (Switch Gigabit)
	IP	Formats		SPTS or MPTS (UDP/RTP)
	ENCODING PROFIL	E		
		Output Format		MPEG-2 / H.264(4.0, 4.1, 4.2, 5.1, 5.2)
	Video	Input Resolution		480i, 480p, 576i, 576p, 720p, 1080i &1080p Supports auto-scan for input resolution (1)
		Input Framerate		50Hz, 60Hz (all input Resolutions), 24Hz (only 1080p Input Resolution)
		Output Resolution		Same as input (Auto) or maximum selected output resolution
		Output Aspect Ratio		4:3, 16:9, and pass through
		Output GOP		10, 12, 15, 16, 18, 20, 24 or 30
		Output format		Dolby® Digital AC-3 or MPEG1 Layer 2
	Audio	Output Sampling rate	kHz	48, 44.1
		Output bitrate		Variable
	Closed Captioning	Format	_	EIA-608, EIA-708
	OUTPUT			
	QAM	Connectors		1x "F" Female
		Modulation standards		ITU-A: 16, 32, 64, 128, 256, 512, 1024 QAM
				ITU-B: 64, 256 QAM
		Frecuency Range	MHz	5 - 1002 (supports return path applications)
		Channel plans		CATV STD, T_CHANNELS, Broadcast, Frequency
		Max output level	dBmV	+55 (+43 with loop-through)
		MER	dB	>40 (typ)
		Spurious	dBc	-60
	ASI	Connectors		1x BNC
		Format		DVB-ASI
		Connectors		2x RJ45 (Switch Gigabit)
		Format		SPTS or MPTS (UDP/RTP)
	PSI PARAMETERS			
	Transport Stream ID			Editable
	Original Network ID			Editable
	Network ID Virtual Channel Number			Editable
				Editable
	NIT Version			Manual / Automatic
	SDT Version		Manual / Automatic	
	Network Name			Editable
	Service PID			Editable
	Service Name			Editable
	Service ID			Editable
	GENERAL			
	Power supply		Vdc	24
	Power disipation W			<20.4
	Operating Temperature °F / °C			32 to 95 / 0 to 35



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 $[\]ensuremath{^{(1)}}$ The output resolution is the same as the input signal source.