Modulator Encoder ISDB-Tb or DVBT

Generate your own DTT content in High Definition

The contents of a Multiplex generated by the ref.563833 Encoder/Modulator consists in two services; each of them may come from up to three types of input signals (HDMI, YPbPr components or CVBS composite video). The contents of a Multiplex generated by ref.563823 consists in up to four services, since it is equipped with four analogue composite video (CVBS) inputs. Both modules can encode video in MPEG-2 or H.264 (HDTV) formats, and their output signal format may be either DVB-T or ISDB-Tb.

Ref.	563833
EAN13	8424450177358

Packaging info

Box	1 pcs.

Physical data

Net weight	1,242.00 g
Gross weight	1,500.00 g
Width	50.00 mm
Height	219.00 mm
Depth	191.00 mm
Main product weight	1,194.00 g

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

Technical specifications

References			563823	563833
INPUTS	VIDEO	Connectors	4 sets - 1x RCA for Video (CVBS)	2 sets - 3x RCA for Video (Y, Pb, Pr)
				2 sets - 1x RCA for Video (CVBS)
	AUDIO	Connectors	4 sets - 2x RCA for Analog Audio (L, R)	2 sets - 2x RCA for Analog Audio (L, R)
				2 sets - 1x RCA for Digital Audio
				2 sets - 1x Toslink for Digital Audio (Optical)
	VIDEO + AUDIO	Connectors	-	2 sets - 1x HDMI
	OUTPUT	Connectors	"F" Female (loop-through combiner input)	
ENCODING PROFILE	VIDEO	Output Format	MPEG-2 / H.264	
		Resolution	480i & 576i Supports auto-scan for input resolution	
		Aspect Ratio	4:3, 16:9 and pass through	
		GOP	10, 12, 15, 16, 18, 20, 24 ó 30	
		Transport rate	Variable	
		Video bit rate	Variable	
	AUDIO	Output format	MPEG1 Layer 2	
		Sampling rate	kHz	48	
		Output bitrate	Variable	

OUTPUT	**RF**	Connectors		1x "F" Female
		Frequency Range	MHz	46 - 862
		Max output level	dBμV	+115 (+103 with loop-through)
		MER	dB	>40 (typ)
		Spurious	dBc	-60
		Impedance	Ω	75
		I/Q Phase Error	º	< 1
		I/Q Amplitude Imbalance	%	< 1
	ISDBT	Modulation format		QPSK, 16 QAM, 64 QAM
		Layer available		Layer A
		OFDM Mode		Mode 1 = 2K, Mode 2 =4K, Mode 3=8K
		Interleaving		Mode 0, 1, 2 y 3
		Bandwidth		6 MHz
		Guard Interval		1/4, 1/8, 1/16, 1/32
		FEC		1/2, 2/3, 3/4, 5/6, 7/8
		Spectrum Mode		Nomal/inverted
		Frequency Step	KHz	250, 166, 143
		Frequency Offset	KHz	143
	COFDM	Modulation format		QPSK, 16QAM, 64QAM
		Guard Interval		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		Sí
		Frequency Step	kHz	125 / 166
PSI PARAMETERS		Transport Stream ID		Yes
		Original Network ID/Network ID		Yes
		NIT Version		Manual / Automatic
		SDT Version		Manual / Automatic
		Network Name		Yes
		Service PID		Yes
		PMT PID		Yes
		Service Name		Yes
		Service ID		Yes
MONITORING / CONTROL		Local control		Full configuration with LCD handheld programmer
		Local monitoring		LOOP status LED
				OUTPUT status LED
				TEMP status LED
			CH1/CH2 - CH3/CH4 status LEDs	CH1/CH2 status LEDs
				Ethernet status LEDs
		Remote monitoring		Centralized web based remote control, management, alarms, and software upgrades
		Control		Daisy-chain integrated ethernet switch

GENERAL	Power supply	Vdc	24	
	Power disipation	W	< 16	< 20.6
	Protection index	IP	20	