Transmodulator equipped with remultiplexing DVBS/S2 - ISDBTb, equipped with CI

The multiplexer receives a satellite transponder in DVBS (QPSK) or DVBS2 (QPSK ó 8PSK) modulation and demodulates it, producing a transport stream. The transport stream is later modulated in ISDBTb and converted into the output channel using an agile up-converter. Equipped with a Common Interface slot for the insertion of a conditional access module (CAM), to allow the sorting out of the different services.

Ref.	564260
EAN13	8424450177419

Packaging info

Box	1 pcs.

Physical data

Net weight	1,114.00 g
Gross weight	1,150.00 g
Width	50.00 mm
Height	219.00 mm
Depth	174.00 mm
Main product weight	1,014.00 g

Highlights

- Total or selective removal of the services present in the received transponder, to avoid them

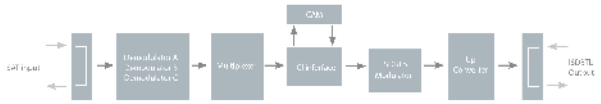
being detected (and memorized) by the receivers (STB)

- Editable TS_ID, which makes programme/service detection easier on the receiver (STB), since the channel scan is based on this identifier
- LCN (Logical Channel Number) allows the assignment of the services present in the output to an LCN, which makes the ordering of the channels easier on the receivers (STB)
- Provides information regarding both the occupation of each specific service and the global output occupation, which allows the optimization of the services being distributed
- Can be remotely controlled using CDC (Headend control)
- Device monitoring and signal status LEDs

Main features

- Null packet insertion (“Stuffing”) allows the receiver (STB) to perform a faster scanning
- The coded satellite channels are transformed into free terrestrial services through the CI interface and the appropriate CAM module. Depending on the CAM type used (standard/professional), one or several services may be opened for free visualization

Graphic documentation



Block diagram

Technical specifications

SAT INPUT	SAT	Input frequency range	MHz	950...2150
		Frequency steps		1
		Input level	dBµV	42...82
		Loop-through losses	dB	≤ 1,5
		LNB powering	Vdc	13V/17V/ OFF - 22KHz (ON/OFF)
		Input return losses (typ.)	dB	> 10
		Input impedance	Ω	75
	DVB-S	Symbol rate (Modulation)	Mbaud	2 - 42,5 (QPSK)
		FEC inner code		Viterbi (1/2, 2/3, 3/4, 5/6, 7/8)
		FEC outer code		RS (188/204)
		Roll-Off factor	%	35
	DVB-S2	Symbol rate (Modulation)	Mbaud	10 - 30 (QPSK, 8PSK)
		FEC inner code		1/2, 1/3, 1/4, 2/3, 2/5, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10
		FEC outer code		BCH (Bose-Chaudhuri-Hocquenghem)
		Roll-Off factor	%	20, 25, 35
DVB-T OUTPUT	ISDBTb	Modulation (Constellation)		QPSK, 16QAM, 64QAM
		Guard interval		1/4, 1/8, 1/16, 1/32
		Layers number		Layer A
		Interleaving		Modes 0, 1, 2 y 3
		FEC		Viterbi (1/2, 2/3, 3/4, 5/6, 7/8)
		PCR Correction		Sí
		Services deleting		Sí
		Network_ID		Sí
		Original Network_ID		Sí
		Cell_ID		Sí
		TS_ID		Sí
		S_ID		Sí
		LCN		Sí
		PID		Sí
		Spectral inversion		Normal, Inverted
		Channel bandwidth	Mhz	6
	RF	Output frequency		46...862
		Frequency steps	KHz	166 - 125 - 143
		Output level (max. typ.)	dBµV	> 80 ± 5
		Output level regulation margin	dB	>15
		Output loop-through losses		< 1,5
		Output return losses (typ.)		> 12
		Impedance	Ω	75

GENERAL	Powering voltage	Vdc	24
	Consumption	mA	570 (0 LNB - 0 CAM) 670 (0 LNB - 1 CAM) 920(1 LNB - 1 CAM) 1170 (2 LNBs - 1 CAM)
	Protection index	IP	20