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Hexa Transmodulator

DVBS/S2 - DVBC (QAM Annex A)

Transmodulator that generates six QAM (DVB-C) Multiplex from the services available in six TV SAT transponders. Inputs may either be in loop or independent from each other. In the latter case, each TVSAT demodulator may be connected to any of the two inputs.

An outstanding optimized power consumption allows the building of compact small-size headends with multiple services.

Ref.564501

Art.Nr

UQQA-S2-6

EAN13

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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 scan
- PID filtering allows the removal of undesired services inside a Multiplex (enhanced occupation use)

- Editable Network_ID and Original Network_ID allow the control of network identifiers
- Its outputs can be configured with loopmode either activate or deactivate

Technical specifications

SAT INPUT	SAT	Input frequency range	MHz	950...2150
		Frequency steps		1
		Input level	dB μ V	49 - 84
		Loop-through losses	dB	$\leq 1,5$
		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	LDPC (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-C OUTPUT	QAM	Modulation (Constellation)	16, 32, 64, 128, 256QAM	
		Symbol rate	Mbaud	1 - 7,2
		Scrambling	DVB EN 300429	
		Interleaving	DVB EN 300429	
		FEC outer code	RS (188, 204)	
		Roll-Off factor	%	15
		PCR correction	Yes	
		Spectral inversion	Normal, Inverted	
	RF	Channel bandwidth (max.)	MHz	8,3
		Output frequency	MHz	46...999
		Frequency steps	KHz	250
		Output level (max.)	dB μ V	90
		Output level regulation margin	dB	>15
		Output loop-through losses		$\leq 1,5$
Output return losses (typ.)		> 12 típ.		
Output impedance	Ω	75		
GENERAL	Powering voltage	Vdc	24	
	Consumption	mA	1000 (0 LNB); 1300 (1 LNB)	
	Protection index	IP	20	