6×DVB-S2 to 4×QAM Trans-modulator

Overview

6×DVB-S2 to 4×QAM Trans-modulator support 6×DVB-S/S2 (QPSK/8PSK) transponders and 1xASI input, then multiplex and scramble the input signal to output selected programs through 4×QAM RF channels. It provides a cost-effective and stable solution for TV operators to re-distribute programs via HFC network. It suits 1U rack and can be configured by front panel LCD and NMS (network management software). Its high-integrated and cost-effective design makes it widely used in varieties of digital broadcasting distribution systems.

Features

◆ 6×DVB-S/S2 RF and ASI input

◆ Input frequency: 950~2150 MHz

◆ Input symbol rate: 1~45 Msps

◆ 4×QAM RF output

◆ Output frequency: 47~870 MHz

◆ Output symbol rate: 5~9 Msps

◆ Support 4×CAS/SMS

◆ LCD/Keyboard control by front panel and network management by Ethernet

Technical Specification

Input	**RF**	6×tuner (DVB-S/S2)
	ASI	1×ASI (BNC)
	Frequency Range	950~2150 MHz
	Symbol Rate	1~45 Msps
Output	**Interface**	F-head
	Impedance	75Ω
	Frequency Range	47~870Mhz, 1Khz step
	Constellation	16, 32, 64, 128, 256 QAM
	Standard	EN300429/ITU-T J.83A
	Symbol Rate	5.0~9.0Msps, 1ksps step
	Error-Correcting Codes	RS code188/204
	MER	≥40dB
	BER	0
	Output Level	85~105dBV
	Level Attenuation Range	-20dBm~0dBm (per carrier), 0.5dB step
	Scrambler	support 4×CAS/SMS; head-end implementation of DVB simulcrypt (ETSI TS 103 197 V1.4.1)
	Control	LCD/Keyboard, network management
		Ethernet software upgrade
General Features	**Size**	482mm×410mm×44mm
	Temperature Range	0~45°C (Operation); -20~80°C (Storage)
	Power	100-240VAC, 50Hz, 25W