

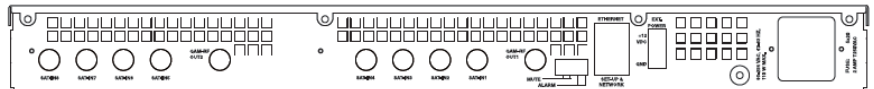


XTC Series

QPSK / 8PSK to QAM Turbo Transmodulator

Features

- Tunes and demodulates QPSK/8PSK satellite signals in DVB-S, DVB-S2 modulation including DISH Turbo FEC
- Outputs 4 or 8 transponders of SD or HD video in 4 or 8 QAM-RF channels
- Superior QAM performance with unequalized MER at 39dB, high output levels, and return loss >15dB
- Internal web server allows any PC to access web pages for easy configuration and simple local and remote operation
- DISH quick start wizard searches for DISH signals for a quick install
- Dense with up to 8 channels in 1 RU, low power for low heat and long life



Rear View of XTC-8

SPECIFICATIONS

SATELLITE INPUTS (FROM LNB)

Frequency Range	950-2150 MHz
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MODULATION RATES

DVB-S	1 to 45 Msps
	1/2, 2/3, 3/4, 5/6, 7/8
DVB-S2	5-33 Msps
	QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
	8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
8PSK Turbo, Turbo FEC QPSK	2 to 30 Msps
	2/3, 3/4, 4/5, 5/6, 8/9
Input Level Per Carrier	-20 to -65 dBm
Acquisition Range	±5 MHz
Tuner Step Size	100 kHz
Return Loss	>9 dB
Impedance	75Ω
Connector	F-Female
LNB Power and Control Output	11.5 to 14.0, 16.0 to 19.0 Volts, or Off/Blocked and 22kHz/Off

QAM-RF OUTPUTS

Output Frequency	50-1002 MHz
Channel Bandwidth	Four Channels, 6 to 8 MHz
QAM Modulation Modes	16, 32, 64, 128, 256
QAM Types	ITU-A (DISH/DVB)
QAM Symbol Rate	2.24~2.98, 4.48~7.0 Msps
PCR Re-Stamping	Auto
Channel Plans	EIA, HRC, IRC, Manual

Output Frequency Step Size	>10 Hz
Baud Rate Step Size	<1 Hz
Output Level (effective, per channel)	>45 dBmV
(combined, 4 channels)	>38 dBmV
Output Attenuation	0-10 dB (0.5 dB step)
Output Level Flatness (50-1002 MHz)	±0.75 dB
Spurious	> 60 dBc
Output Impedance	75Ω
Output Return Loss	>15 dB
Output Connector	F Female

GENERAL

Ethernet	10/100Base-T
Ethernet Connector	(1) RJ-45
Dimensions (WxDxH)	19x19x1.75"
Operating Temperature	0°-40°C (32°-104°F)
Operating Humidity	5-100% (non-condensing)

POWER

AC Input	93-254 VAC, 47-63Hz
AC Power (4 QAM outputs)	22 W
(8 QAM outputs)	44 W
DC Input (varies with LNBs)	12V±5%, 4-8A

ORDERING INFORMATION

XTC-4	QPSK/8PSK to QAM Turbo Transmodulator - 4 Channel
XTC-8	QPSK/8PSK to QAM Turbo Transmodulator - 8 Channel
X-PS	External Redundant Power Supply