TERRACE TC1200 MDU GATEWAY

The **Terrace TC1200 MDU** gateway is a multi channel QAM to analog RF converter. Demodulated MPEG-2 transport streams from multiple QAMs are decrypted, decoded to analog, then converted to the correct RF channel. The TC1200 can demodulate up to 16 QAM carriers, select the MPEG-2 transport streams and remap them to 82 standard definition MPEG-2 program streams which are NTSC modulated to analog video channels. The TC1200 is a flexible, compact and cost effective way to bring a digital lineup back into the analog realm for an MDU bulk account.

Features

- Highly integrated - Combines QAM demodulation, decryption, NTSC modulation and upconversion in a single product
- Flexibility - Offer both analog and high frequency digital bypass in the same chassis
- Compact - design saves space and power
- Demodulate up to 16 QAM channels and decrypt up to 72 SPTS streams
- Convert up to 82 SPTS to analog channels
- Supports up to 12 Multi-Channel CableCARDs ™ to decrypt streams
- Scalable - deploy additional units as needed
- Power Redundancy - two load sharing power supplies (one takes over if the other fails)
- Compatible with HITS QT+

NOTE: Multi-channel CableCARDs are not included with unit

CableCARD is a trademark of Cable Television Laboratories, Inc.

Terrace: TC1200 - Specifications

CATV Port

Connector	1 x 5/8"-24
Input Impedance	75 Ω
Modulation	64/256 QAM (Annex B)
Tuning Block Freq Range	54 - 1002 MHz (Band Edges)
Max. QAMs Demodulated	16 (per chassis)
Input Level (Downstream)	+21 to +31 dBmV (256 QAM)
Output Level (Upstream)	0 dB Gain ± 2dB (with 0 dB pad installed)**
CAS Type	DigiCipher II, PowerKEY, NDS
CAS Format	CableCARD
Return Loss	-13 dB (5 - 864 MHz) -12 dB (864 - 1002 MHz)

*** Pad value indicated is the shipping default value*

Mixed Services Port

Connector	1 x 5/8" - 24
Number of Analog RF Channels	82 x NTSC (2-78, 95-99) standard EIA channel plan
Impedance	75 Ω
Frequency Range	5 to 42 MHz (Upstream) 54 to 552 MHz (Analog)
Output Level (Downstream)	+22.5 dBmV per ch. ± 2.5 dB (typical)
Insertion Loss (564-1002 MHz)	3.5 dB ± 2 dB (with 3 dB pad installed)**
Input Level (Upstream)	10 to +35 dBmV
Return Loss	-10 dB (5 to 1002 MHz)
Inband Carrier to Noise	-55 dBc
Audio	Licensed BTSC/SAP
EAS Support	SCTE-18 Force Tune
VBI Support	SCTE-20,21
AC Power Passing	< 15A

*** Pad value indicated is the shipping default value*

Auxiliary Inputs

Connectors	3 x F-type, female
Impedance	75 Ω
Input Type	Channel 3 NTSC
Input Level	0 to +15 dBmV
Noise Figure	10 dB
Output Frequency	Each auxiliary channel can be placed on any channel between 54 and 552 MHz
Carrier-to-Noise Ratio (CNR)	51 dB at 0 dBmV - Continuous Wave Input

General

Dimensions	21.1" x 16" x 8.5" (53.6 cm x 40.6 cm x 21.6 cm)
Weight	43.5 lbs (19.7 kg)
Input Voltage	45 to 90 VAC Line Power
Power Consumption	< 150 W
Operational Temperature	32°F to 122°F (0°C to + 50°C) ambient*

** For Indoor Use Only*

Transport Stream Details

Video Format	MPEG-2, MP@ML 4:2:0 chroma sampling 4:3 aspect ratio
Video Resolution	720x480, 704x480, 544x480, 528x480, 352x489
Video Bitrate	Up to 15 Mbps
Audio Formats	Dolby* Digital (AC3)
Audio Bitrate	Dolby Audio 512 kbps max
Audio Sample Rates	32 kHz, 44.1 kHz, 48 kHz
Audio Downmix	Multichannel downmix to stereo or mono as necessary

Control & Management

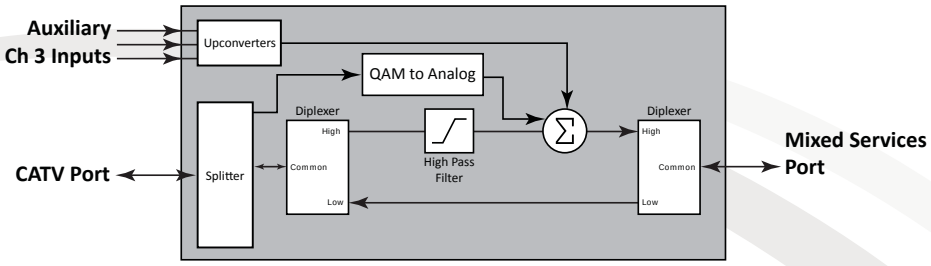
Console	Internal USB Type B
Protocols	SNMP, DHCP, TFTP
Embedded Cable Modem	DOCSIS 2.0
Ethernet Management (Option EMGMT)	RJ45, 10/100 (replaces cable modem)

Replaceable Components

HFCATVEQ0-02L	RPAD JXP0-02L
HFCATVEQ6-02L	RPAD JXP3-02L
ZMShunt-01	

**Dolby Digital is a registered trademark of Dolby Laboratories*

Terrace (TC1200) - High Level Functional Block Diagram



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