

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

Replaceable Components

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

*Dolby Digital is a registered trademark of Dolby Laboratories

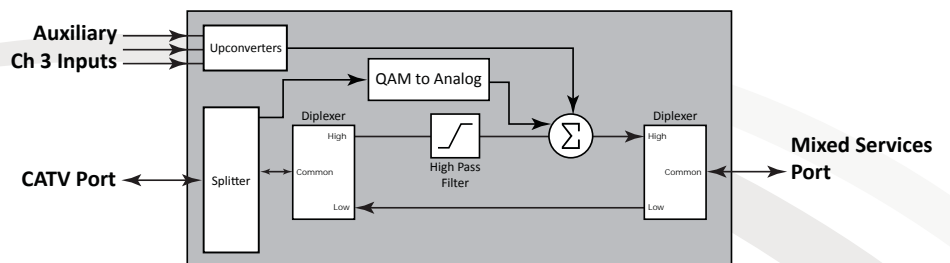
Transport Stream Details

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)

Terrace (TC1200) - High Level Functional Block Diagram



Copyright © Vecima Networks Inc. Vecima reserves the right to modify or discontinue any product or piece of literature at anytime without prior notice. All Trademarks are property of their respective owners. Compliance with export control laws: Various export control laws of Canada, the United States or other countries may restrict or prohibit the export to certain countries of products sold by Vecima. Vecima shall not be liable for anything arising from compliance, or efforts to comply, with export control laws.