Vecima
TERRACE QAM

The **Terrace QAM** Hospitality Gateway is a multi-channel QAM to QAM transcryptor for use in the hospitality industry. Demodulated MPEG transport streams are decrypted by CableCARD™ technology and then are either re-encrypted using Pro:Idiom® technology or left in the clear. The MPEG transport streams are re-modulated and then delivered to the desired RF channel.

The Terrace QAM can decrypt 24 programs if equipped with the TQ1007LT+ processor card or 60 programs if equipped with the TQ1007+ processor card and provides up to 64 Output QAM channels to allow a full line-up of customized programming. Local content can also be added to enhance value-added advertising within the hospitality CATV network and further personalize Free-to-Guest offerings.

Terrace QAM Front View

Features

- Provide reliable, secure HD programming in a hospitality environment

- Highly integrated - Combines QAM demodulation, decryption, demultiplexing, encryption, multiplexing, QAM modulation and upconversion in a single product

- Demodulate up to 64 QAM channels

- Supports 4 or 10 multi-channel CableCARDs to decrypt 24 or 60 programs for both SD and HD programming

- Flexibility - Offer both SD and HD programming in the same chassis

- Supports PSIP for Virtual Channel Numbers

- Supports MediaCipher® or PowerKEY® CableCARD decryption

- Pro:Idiom® or Clear QAM output

- Supports up to 4 HD inputs (2xComponent + 2xUSB) for delivery of local advertising and information

- Embedded DOCSIS® Cable Modem or Ethernet for remote configuration and management

- Supports MPEG-2 and MPEG-4 video

- Optional MPEG-4 to MPEG-2 transcoding with TransQAM (TQ1035+) module

- Optional SCTE-27 subtitling with TransQAM (TQ1035+) module

Terrace QAM Rear View

Terrace QAM Specifications

QAM Input Tuner (TQ1042+ / TQ1045+)

Connector	1 x F-type, female
Input Impedance	75 Ω
Modulation	ITU J.83 Annex B; 64, 256 QAM
Tuning Block Freq Range	54 - 1002 MHz (Band Edges)
Max. QAMs Demodulated	32 --> TQ1042+ QAM input tuner module 40 --> TQ1045+ QAM input tuner module
Input Level	-12 to +15 dBmV per QAM

Optional Auxiliary Input Module (TQ1050+)

Connector	2 sets of 5 x RCA Jack (Y,Pb,Pr,L,R) 2 x USB (Type A)	
	Video	**Audio**
Format	Analog component video (Y,Pb,Pr)	Left & Right Audio
Resolution	480i/480p/720p	-

Processor Module (TQ1007LT+ / TQ1007+)

TS Format	MPEG-2 TS
Video Format	MPEG-2 and H.264
Audio Format	AC-3
Encryption:	
Encryption Type	Pro:Idiom® or Clear QAM
Decryption:	
CableCARD Slots	4 " TQ1007LT+ processor module 10 " TQ1007+ processor module
CAS Type	MediaCipher®, PowerKEY®
CAS Decryption	CableCARD™
Packet Data Format	188 or 204 bytes/packet

Control & Management

Console Port	USB (Type B)
Protocols	SNMP, DHCP, TFTP, HTTPS

Mechanical

Chassis (H x W x D)	3.5" x 17.25" x 19.27" (8.89 cm x 43.82 cm x 48.95 cm)
Weight (fully loaded chassis)	30.33 lbs (13.76 kg)
Operating Temperature Range	10°C to 40°C
Humidity Range (non-condensing)	10-90%

Mechanical

Input Frequency Range	47 to 63 Hz
Input Voltage Range	90 to 240 VAC

* Worst case power consumption is 356 W

QAM RF Output (TQ1020+)

Connector	4 x F-type, female
Output Impedance	75 Ω
Number of QAM Channels	32 x QAM 8 channel blocks
Programs per QAM	Up to 16
Level	48 to 58 dBmV block power
Frequency Range	54 - 1002 MHz (Band Edges)
QAM Modulation	ITU J.83 Annex B; 64, 256 QAM

QAM RF Output (TQ1030+)

|	
Primary Output Connector	1 x F-type, female
Monitor Output (-20dB) Connector	1 x F-type, female
Output Impedance	75 Ω
Maximum Number of Output QAM Channels	32 (Configurable as 4 blocks of up to 8 channels each)
Programs per QAM	Up to 16
Output Level (all channels configured)	32 to 42 dBmV per channel
Output Level (single channel)	42 to 52 dBmV
Frequency Range	54 - 1002 MHz (Band Edges)
Output Channel Framing, Coding and Modulation	as per ITU J.83 Annex B (64 and 256-QAM)

TransQAM RF Output (TQ1035+)

Primary Output Connector	1 x F-type, female
Monitor Output (-20dB) Connector	1 x F-type, female
Output Impedance	75 Ω
Maximum Number of Output QAM Channels	32 (Configurable as 4 blocks of up to 8 channels each)
Programs per QAM	Up to 16
Output Level (all channels configured)	32 to 42 dBmV per channel
Output Level (single channel)	42 to 52 dBmV
Frequency Range	54 - 1002 MHz (Band Edges)
Output Channel Framing, Coding and Modulation	as per ITU J.83 Annex B (64 and 256-QAM)
Transcoding	H.264 to MPEG-2 Video 1080i and 720p resolution support AC-3 audio passthrough 32 programs per module

Power Cord	Polarized, double insulated, UL approved
Power Consumption	356 W (fully loaded chassis)*

		Output Module Slot	Input or Auxiliary Module Slot
Power Supply Slot	Power Supply Slot	Input or Output Module Slot	Input Module Slot
		Processor Module Slot	
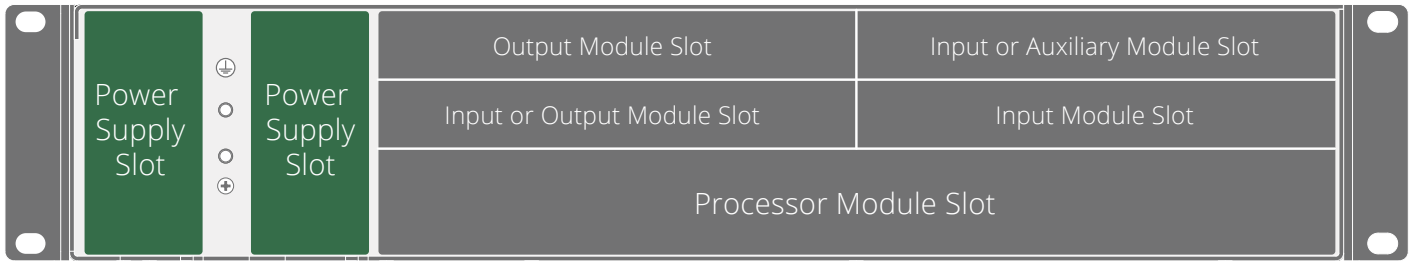
Chassis (TQ1002+)

- Accommodates up to two power supplies (TQ1011B+) for redundancy

- Accommodates one processor module (TQ1007LT+ or TQ1007+)

- TQ1002+ accommodates certain combinations of Input and Output Modules – Please inquire with a Vecima Sales Representative for details
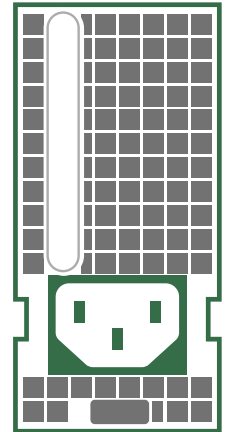
Power Suppy Module (TQ1011B+)

- If two power supplies are used, they will load share with one taking over the load should the other fail

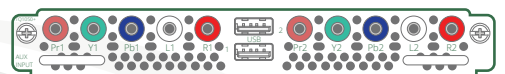# QAM Input Tuner Module (TQ1042+)

- Demodulate up to 32 QAMs

QAM Input Tuner Module (TQ1045+)

- Demodulate up to 40 QAMs

Auxiliary Input Module (TQ1050+)

- 2 sets of 5 x RCA Jack (Y,Pb,Pr,L,R) - SD and HD content capable

- 2 x USB (Type A) - SD and HD content capable

Auxiliary Input Module with EPG (TQ1055+)

- HD or SD Scrolling Electronic Program Guide

- Describes output channel line-up with incoming program names

- Banner image for custom branding

- 1 set of 5 x RCA Jack (Y,Pb,Pr,L,R) - SD and HD content capable
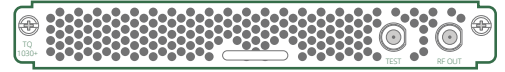
- 1 x USB (Type A) - SD and HD content capable

RF Output Module (TQ1020+)

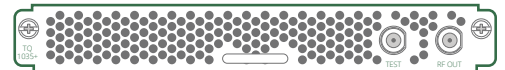- Output up to 32 QAMs (up to 8 QAMs per port)

RF Output Module (TQ1030+)

- Output up to 32 QAMs (Configurable as 4 blocks of up to 8 channels each)

TransQAM RF Output Module (TQ1035+)

- Output up to 32 QAMs (Configurable as 4 blocks of up to 8 channels each)
- MPEG-4 to MPEG-2 transcoding
- SCTE-27 subtitling

Processor Module (TQ1007LT+)

- Four CableCARD slots
- Decrypt up to 24 programs
- Encrypt outgoing programs with Pro:Idiom® technology
- One processor module per chassis
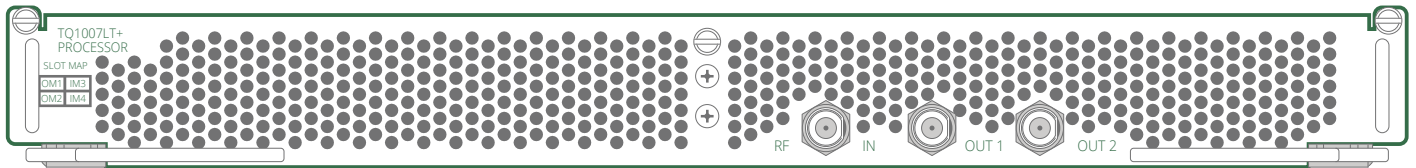
Processor Module (TQ1007+)

- Ten CableCARD slots
- Decrypt up to 60 programs
- Encrypt outgoing programs with Pro:Idiom® technology
- One processor module per chassis