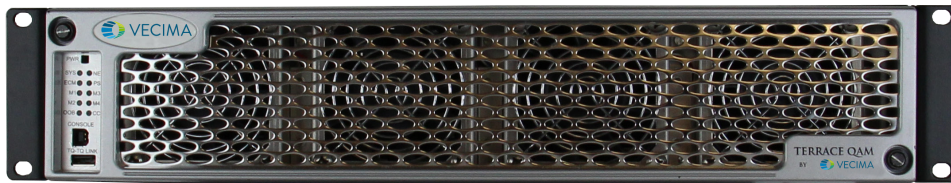**TERRACE**
QAM

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

- TQ1050+ Auxiliary Input Module supports 4 HD inputs (2xComponent + 2xUSB) for delivery of local advertising and information

- TQ1055+ Auxiliary Input Module supports HD or SD Scrolling Electronic Program Guide plus 2 HD inputs (Component and/or USB) 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

- Compatible with Terrace View for Global Monitoring

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 (TQ1007LTNCC+ / TQ1007NCC+)

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%

QAM RF Output (TQ1030+)

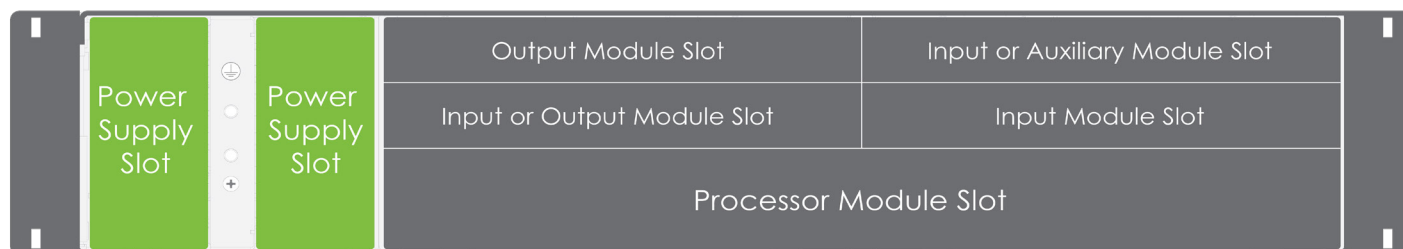|	
Primary Output Connector	1 x F-type, female
Monitor Output (-20dB) Connector	1 x F-type, female
Output Impedance	75 Ω
Maximum Number of Output QAM Channels	32 (Configurable as 4 blocks of up to 8 channels each)
Programs per QAM	Up to 16
Output Level (all channels configured)	32 to 42 dBmV per channel
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

Electrical

Input Frequency Range	47 to 63 Hz
Input Voltage Range	90 to 240 VAC
Power Cord	Polarized, double insulated, UL approved
Power Consumption	356 W (fully loaded chassis)*

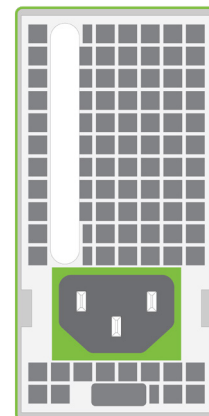** Worst case power consumption is 356 W*

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 failEncrypt outgoing programs with Pro:Idiom® technology
- One processor module per chassis

QAM Input Tuner Module (TQ1042+)
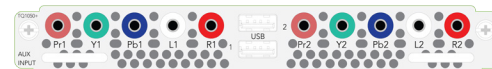
- Demodulate up to 32 QAMs

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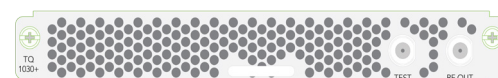- 2 x USB (Type A) - SD and HD content capable

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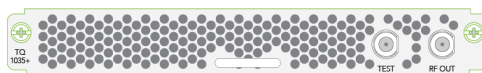- 1 x USB (Type A) - SD and HD content capable

RF Output Module (TQ1030+)

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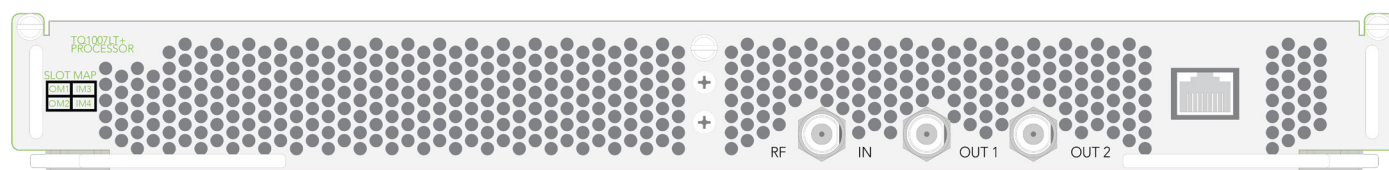 (Configurable as 4 blocks of up to 8 channels each)

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 (TQ1007LTNCC+ or TQ1007LTENCC+)

- Four CableCARD slots

- Decrypt up to 24 programs

- Encrypt outgoing programs with Pro:Idiom® technology

- One processor module per chassis

- TQ1007LTNCC+ is remotely managed via embedded DOCSIS® 2.0 cable modem

- TQ1007LTENCC+ is remotely managed via Ethernet port (replaces embedded cable modem)

Processor Module (TQ1007NCC+ or TQ1007ENCC+)

- Ten CableCARD slots

- Decrypt up to 60 programs

- Encrypt outgoing programs with Pro:Idiom® technology

- One processor module per chassis

- TQ1007NCC+ is remotely managed via embedded DOCSIS® 2.0 cable modem

- TQ1007ENCC+ is remotely managed via Ethernet port (replaces embedded cable modem)