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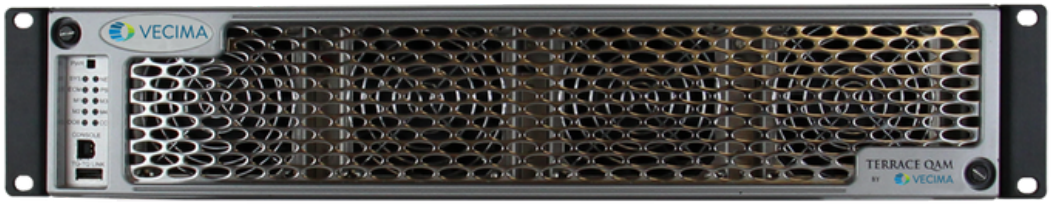
Terrace QAM™

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

The Terrace QAM can decrypt 24 programs, if equipped with the TQ1007LT+ processor card, and four CableCARDs or 60 programs, if equipped with the TQ1007+ processor card and 10 CableCARDs. The Terrace QAM provides up to 64 output QAM channels to allow a full lineup of customized programming. Local content can be added to enhance value-added advertising within the hospitality CATV network and further personalize free-to-guest offerings.



Product 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 four or 10 multi-channel CableCARDs to decrypt 24 or 60 programs for SD and HD programming
- Flexibility – Offer SD and HD programming in the same chassis
- Supports PSIP for virtual channel numbers
- Supports MediaCipher®, PowerKEY®, or NDS™ CableCARD decryption
- Pro:Idiom or clear QAM output
- TQ1050+ auxiliary input module supports four HD inputs (2 x component + 2 x USB) for delivery of local advertising and information
- TQ1055+ auxiliary input module supports HD or SD scrolling electronic program guide and two 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 TQ1035+ RF output module
- Optional SCTE-27 subtitling with TQ1035+ RF output module
- Compatible with Terrace View™ for global monitoring

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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	
Format	Analog component video (Y,Pb,Pr)
Resolution	480i/480p/720p
Audio	
Format	Left and right audio

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

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 8 block power 50 to 60 dBmV 1 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

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 to 40°C
Humidity Range (noncondensing)	10-90%

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

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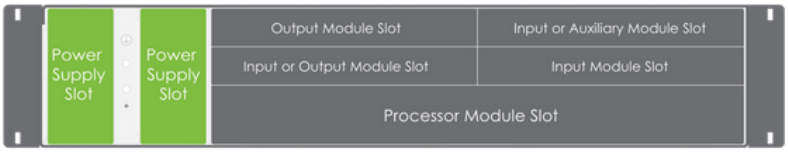
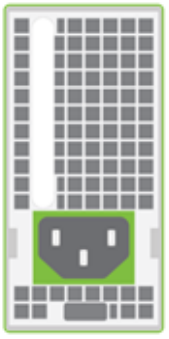
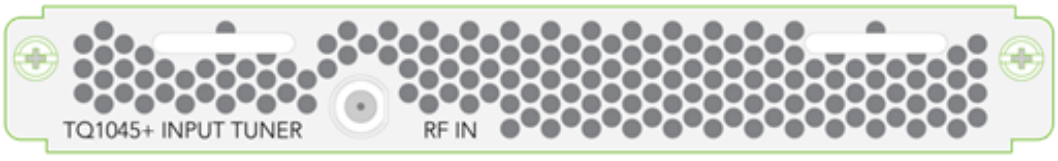
Chassis (TQ1002+)
- Accommodates up to two power supplies (TQ1011B+) for redundancy
- Accommodates one processor module (TQ1007LT+ or TQ1007+)
- TQ1002+ accommodates certain combinations of input and output modules – Please inquire with a Vecima sales representative for details



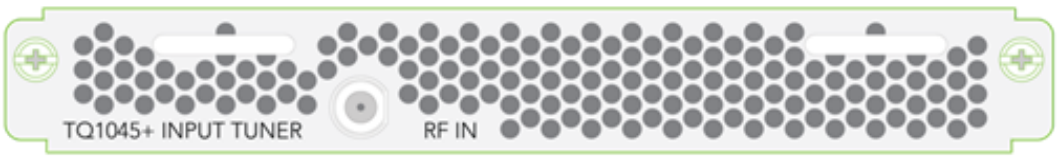
Power Supply Module (TQ1011B+)
- If two power supplies are used, they'll load-share, with one taking over the load should the other fail
- One processor module per chassis



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



QAM Input Tuner Module (TQ1045+)
- Demodulate up to 40 QAMs



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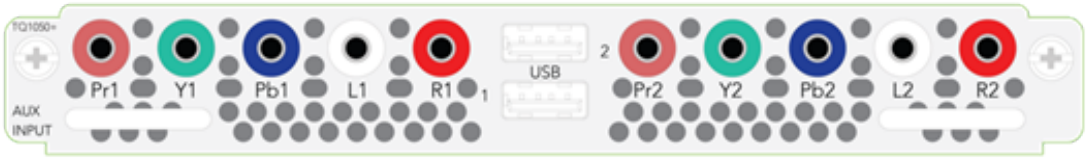
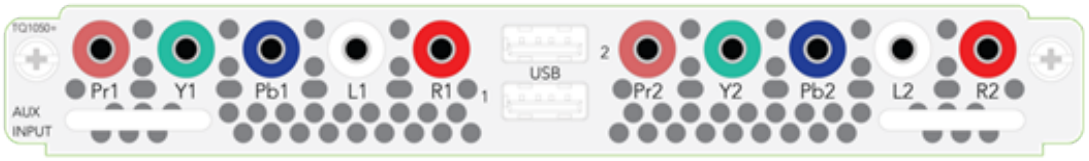
Auxiliary Input Tuner Module (TQ1050+)

- Two sets of 5 x RCA jacks (Y,Pb,Pr,L,R) – SD and HD content-capable
- Two x USB (type A) – SD and HD content-capable



Auxiliary Input Module with EPG (TQ1055+)

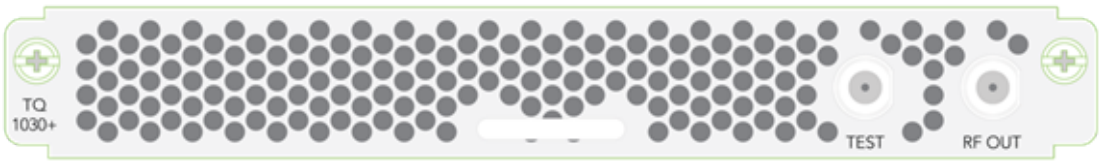
- HD or SD scrolling electronic program guide
- Describes output channel lineup with incoming program names
- Banner image for custom branding
- One set of 5 x RCA jacks (Y,Pb,Pr,L,R) – SD and HD content-capable
- One x USB (type A) – SD and HD content-capable



QAM RF Output Module (TQ1030+)

- Output up to 32 QAMs

(Configurable as four blocks of up to eight channels each)



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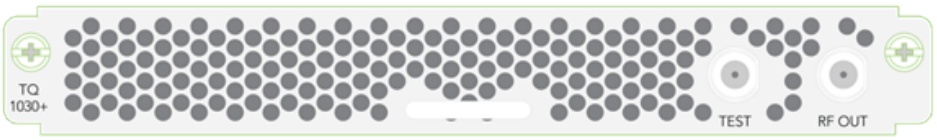
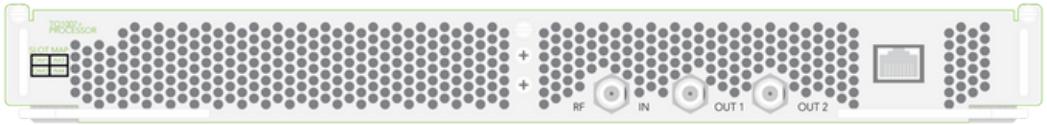
TransQAM RF Output Module (TQ1035+)

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



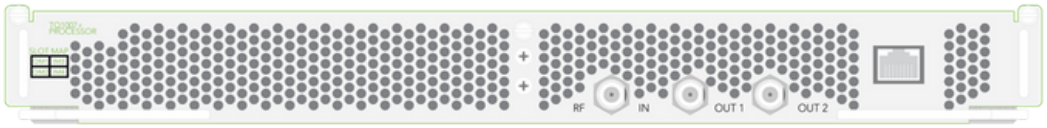
Processor Module (TQ1007LTNCC+ or TQ1007LTENCC+)

- Four CableCARD slots
- Decrypt up to 24 programs
- Encrypt outgoing programs with Pro:Idiom technology
- One processor module per chassis
- TQ1007LTNCC+ is managed remotely via embedded DOCSIS® 2.0 cable modem
- TQ1007LTENCC+ is managed remotely via Ethernet port (replaces embedded cable modem)



Processor Module (TQ1007NCC+ or TQ1007ENCC+)

- 10 CableCARD slots
- Decrypt up to 60 programs
- Encrypt outgoing programs with Pro:Idiom technology
- One processor module per chassis
- TQ1007NCC+ is managed remotely via embedded DOCSIS 2.0 cable modem
- TQ1007ENCC+ is managed remotely via Ethernet port (replaces embedded cable modem)



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