

The Terrace IQ™ Converged NextGen Platform converts IP-delivered content to clear or Pro:Idiom® encrypted QAM to serve bulk commercial video applications, including multi-dwelling units, hotels, and hospitals.

Terrace IQ also features an electronic program guide capability, high-channel capacity, integrated IP output, and modular components for QAM and transcoding. This flexibility makes Terrace IQ an ideal bridge from streaming content sources (HLS, DASH, SRT) and bulk video delivery.

**TERRACE**
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Product Features

IP Input

- 4 x RJ-45 gigabit Ethernet
- 2 x SFP+ 10GbE
- MPEG-2 TS over UDP
- SRT
- ABR (HLS, MPEG-DASH)

Decryption

- SRT AES-256
- Verimatrix VCAS™
- Widevine

Encryption

- Pro:Idiom (per QAM and per stream within a QAM)

Video Processing

- 512 HD programs with full re-multiplexing for customized channel lineups
- ABR or UDP-IP
- USB playback of MPEG-2 TS files

Channel Guide

- Static list
- Metadata from Gracenote

QAM Output Module

- 32 QAM carriers per module (TQ1035)
- Transcode 32 HD programs MPEG-4 AVC/H.264 to MPEG-2 for legacy TVs (TQ1035+ only)
- Up to four modules per chassis

Specifications

Processor Module	
Ethernet Connectivity	2 x 10 GbE (SFP+)
Media Processing	
TS Format	MPEG-2 TS
Video Format (passthrough)	MPEG-2 and H.264
Audio Format (passthrough)	AC-3, EAC-3, AAC, HE-AAC v1/v2, MPEG-2 Layer 2
Decryption	
Decryption Type	Fixed AES-128. Verimatrix, Widevine
Encryption	
Encryption Type	Pro:Idiom, AES**
Management	
Ethernet	Any Ethernet port
Local Insertion	
Connectors	Any IP input format 2 x USB (type A)
Resolution	720p/480p/480i
Video Format	H.264
Audio Format	AC-3
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
Number of Output QAM Channels	32 maximum (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
Number of Output QAM Channels	32 maximum (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, HTTPS, SSH
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)	TBD
Operating Temperature	0 to 50°C
Humidity Range (noncondensing)	10-90%
Input Frequency Range	47 to 63 Hz
Input Voltage Range	90 to 240 VAC
Power Cord	Polarized, double insulated, UL-approved
Power Consumption	<600W