

TERRACE

Terrace IQ™

The Terrace IQ Converged NextGen Platform converts IP-delivered content to clear or Pro:Idiom® encrypted QAM, to serve bulk commercial video applications, including multidwelling units, hotels, and hospitals. Terrace IQ also features local video insertion, 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) to bulk video delivery.



Product Features

IIP Input

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

Decryption

- UDP BISS-1
- SRT AES-256
- Verimatrix VCAST™
- Widevine

Encryption

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

Video Processing

- 512 HD programs with full remultiplexing for customized channel lineups
- Local video insertion
- ABR or UDP-IP
- USB playback of MPEG-2 TS files
- 1 x HDMI input, H.264 HD encoder*

Channel Guide

- Static list
- HD and SD outputs, ROVI Cloud and Tribune data sources*

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

*Denotes road mapped feature

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Specifications

| Processor Module (TQ1008+) | |
|--|---|
| Ethernet Connectivity | 2 x 10 GbE (SFP+) 4 x 1 GbE (RJ45) |
| 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 | BISS-1, fixed AES-128, Verimatrix, Widevine |
| Encryption | |
| Encryption Type | Pro:Idiom, Samsung LYNK**, Verimatrix**, AES** |
| Management | |
| Ethernet | Any Ethernet port |
| Local Insertion | |
| Connectors | Any IP input format 2 x USB (type A) 1 x HDMI* |
| 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, TFTP, 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 Range | 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 |

* Denotes road mapped feature

** Denotes potential future feature