TERRACE
IQ

The **Terrace IQ** Converged NextGen Platform is used to serve commercial bulk video locations from IP-delivered content. Terrace IQ also features local video insertion, electronic program guide capability, high channel capacity, integrated IP output, and modular components for QAM. This flexibility makes Terrace IQ an ideal solution for serving bulk video today with an easy path for migrating to IP for source content.

Terrace IQ Platform - Rear

Processor Module

IP Input
- RJ-45 Gigabit Ethernet
- SFP+ 10GbE
- MPEG-2 TS over UDP
- SRT
- ABR (HLS, MPEG-DASH)*

Decryption
- UDP BISS-1
- SRT AES-256
- Verimatrix VCAS*

Encryption
- Pro:Idiom

Video Processing
- 512 HD programs with full remultiplexing for customized channel lineups

Local Video Insertion*
- H.264 HD encoder
- 1 x HDMI input
- USB playback of MPEG-2 TS files

Scrolling Channel Guide Generation*
- HD and SD outputs, ROVI Cloud and Tribune datasources

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

*denotes roadmapped feature

Terrace IQ Specifications

Processor Module (TQ1008+)

Ethernet Connectivity	2 x 10GbE (SFP+)
	4 x 1GbE (RJ45)

Media Processing

TS Format	MPEG-2 TS
Video Format	MPEG-2 and h.264
Audio Format (passthrough)	AC-3, EAC-3, AAC, HE-AAC v1/v2,
	MPEG-2 Layer 2

Decryption

Encryption Type	BISS-1, Fixed AES-128, 256*

Encryption

Encryption Type	Pro:Idiom®

Management

Ethernet	

Local Insertion *

Connectors	1 x HDMI
	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, TFTP, HTTPS, SSH, REST API

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°C to 50°C
Humidity Range (non-condensing)	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

p: 1.306.955.7075
e: sales@vecima.com
w: www.vecima.com