CV HDMI2 QAM IP
2 CHANNEL HDMI TO SPTS / SRT / QAM ENCODER

KEY FEATURES

CUSTOMIZE A CHANNEL LINEUP FROM INSERTED LOCAL GENERATED CONTENT

» HDMI Ingest of Local Content

» Internal File Store and Player – Up to 512 MB video file with looping player (per output channel)

» NTSC Closed Caption input

» QAM modulates (2) HDMI inputs into (1) QAM channel

» Encodes video to MPEG-2, H.264, or HEVC and audio to Dolby® Digital AC3 and AAC

» IP output up to (2) SRT or Unicast/Multicast SPTS

PRODUCT OVERVIEW

The **CV HDMI2 QAM IP** is a dual channel encoder/player that accepts up to two (2) HD or SD programs from two (2) rear panel HDMI input connectors or it can loop a video file from its internal file store. The unit multiplexes and modulates both HDMI inputs into a single QAM output channel, including PSIP for direct digital TV display, which extends to digital signage applications.

The **CV HDMI2 QAM IP** offers encoding options for MPEG-2, H.264/MPEG-4 (AVC), or H.265 (HEVC) at all major resolutions ranging from 480i to 1080p60. The encoder has the capability to output two (2) SRT streams or Unicast/Multicast SPTS. In addition to its other features, the unit includes two (2) composite ports designed for NTSC Closed Caption input.

ORDERING INFORMATION

MADE IN USA

MODEL	STOCK#	DESCRIPTION
CV HDMI2 QAM IP	6569	2 Channel HDMI to SRT Backhaul / QAM Encoder

REV: 110323

CV HDMI2 QAM IP
SPECIFICATIONS

BLONDER TONGUE LABORATORIES

INPUT

Connectors	2x HDMI, "Type A" (HDMI In, Rear Panel)
Virtual	2x Video Files uploaded from HTTP UI; 512MB max per file; supports MP4 and TS file formats
Closed Caption	1x Composite (CC Ports, Rear Panel)

VIDEO

Video Resolution	480i (59.94, 60 FPS) 480p (29.97, 30, 59.94, 60 FPS) 720p (29.97, 30, 60 FPS) 1080i (59.94, 60 FPS) 1080p (29.97, 30, 59.94, 60 FPS)

AUDIO

Audio Format	PCM Raw (L-PCM, IEC-60958 @ up to 192 kHz)

ALARMS & MONITORING

Local Monitoring	1x Power and Status LED (bicolor) 2x Fan Control Status LED (bicolor) 2x Encoder Status LED (bicolor) 1x QAM Status LED (bicolor)
Local Control	1x IP Reset Button
Remote Control	1x RJ45 (1000Base-T GbE; Front Panel) GUI-Based Menu Via Internal Web Server

GENERAL

Dimensions (W x H x D)	19.0 x 1.75 x 8.5 in (483 x 45 x 216 mm)
Weight	9.5 lbs (4.31 kg)
Power	110/230VAC, 0.35/0.175A, 60/50 Hz
Power Consumption	35 W
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

OUTPUT

RF QAM MODULATION

QAM Connector	1x "F" Connector, Full Agile QAM
QAM Test Point	1x "F" Connector, -20 dB
Standards	ITU-T J.83; Annex B
Frequency Range	54 to 1002 MHz
Power	+45 dBmV
Channel Bandwidth	6 MHz
Return Loss	≥ 14 dB
Level Adjust. Range	15 dB
Level Accuracy	±1 dB
QAM MER	>40 dB
Impedance	75 Ω
Phase Noise	-95 dBc @ 10 kHz offset

IP OUTPUT

IP Connector	1x RJ45 Gigabit Ethernet Output
IP Protocols	UDP; RTP; SRT
Streaming Protocols	Unicast, Multicast (SPTS only)
SRT Protocols	Specifications - www.SRTalliance.org

SPTS STREAM PROTOCOLS

Standards	ISO/IEC 13818-1 Systems
TS Supported	2x SPTS
TS Packet Length	188 bytes
Sync Byte	0x47
Encoding Type	CBR or Capped VBR

ENCODED VIDEO AND AUDIO

Video Bitrate	2 Mbps to 19 Mbps (0.1 Mbps increments)
Video Resolution	1080p (30, 60 FPS); 1080i (60 FPS); 720p (30, 60 FPS); 480p (30, 60 FPS); 480i (60 FPS)
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC)
Audio Format	Dolby® AC3; AAC

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I/O OVERVIEW

1x IP OUT
(2x channel)

1x QAM OUT
(2x channel)

1x CC IN

1x CC IN

2x HDMI IN
(SD or HD Programs)

ORDERING INFORMATION

MADE IN USA

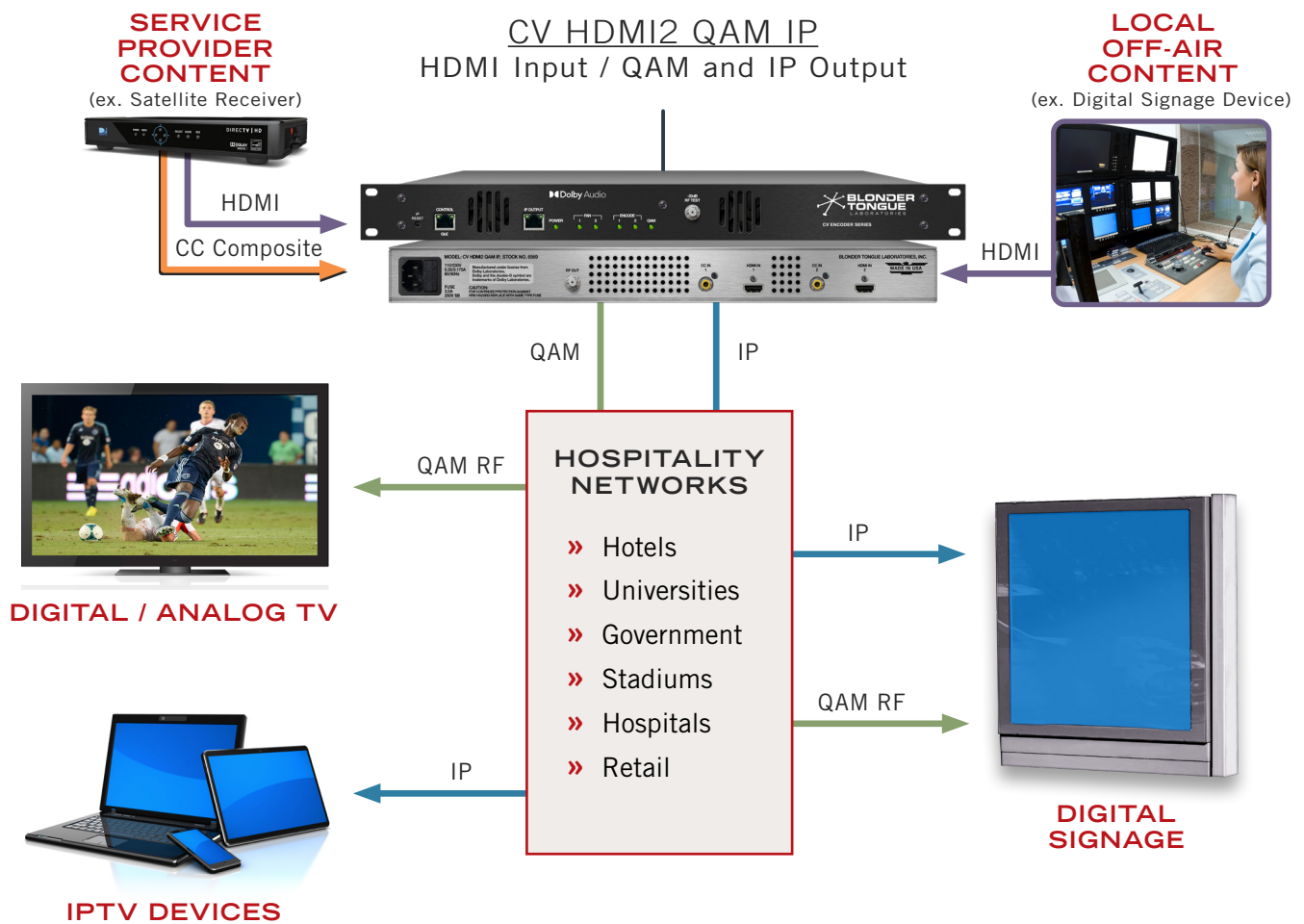| MODEL	STOCK#	DESCRIPTION
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IP VIDEO CONTENT DELIVERY TO HOSPITALITY NETWORKS

SERVICE PROVIDER CONTENT
(ex. Satellite Receiver)

CV HDMI2 QAM IP
HDMI Input / QAM and IP Output

LOCAL OFF-AIR CONTENT
(ex. Digital Signage Device)

HDMI

CC Composite

HDMI

QAM

IP

QAM RF

DIGITAL / ANALOG TV

HOSPITALITY NETWORKS

» Hotels
» Universities
» Government
» Stadiums
» Hospitals
» Retail

IP

QAM RF

IP

DIGITAL SIGNAGE

IPTV DEVICES

ORDERING INFORMATION

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