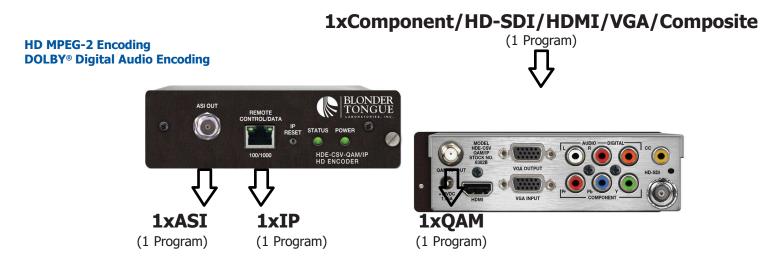


HDE-CSV-QAM/IP Single Channel HD Encoder

The **HDE-CSV-QAM/IP** accepts one **HD** program from any of the following inputs: 1xComponent, 1xHD-SDI, 1xHDMI (unencrypted), 1xVGA, and 1xComposite. The MPEG-2 encoded outputs are available in the following formats simultaneously: 1xQAM, 1xASI, and 1xIP (100/1000Base-T Ethernet).

The 1xQAM RF output is frequency agile over the entire CATV frequency range of 5-1002 MHz, including sub channels T7-T14, and 2-158, with an output level of +40 dBmV.

Comprehensive remote monitoring and control is accomplished using any standard Web browser via a frontpanel 100/1000 Ethernet connection. A rear-panel VGA output port is available for loop-through applications.



Features

- Accepts one program from any of the following inputs:
- 1xComponent, 1xHD-SDI, 1xHDMI (unencrypted), 1xVGA, and 1xComposite
- Simultaneously delivers 1xQAM, 1xIP, and 1xASI
- Provides +40 dBmV QAM RF output level
- Provides full QAM output coverage from 5 to 1002 MHz (sub channels T7-T14, and 2-158)
- Supports custom video and transport stream bit rate settings
- Supports user-defined PSIP configuration
- Supports Real-time Dolby[®] Digital audio encoding
- Supports Closed Captioning EIA-608 and EIA-708
- Provides comprehensive GUI-based monitoring and control via standard Web browsers
- Compact design permits installation of up to 3 Encoder modules in 1RU

Ordering Information

Model	Stock #	Description
HDE-CSV-QAM/IP	6382B	MPEG-2 HD Encoder; 1xComponent/HD-SDI/HDMI/VGA/Composite inputs;
		1xQAM + 1xIP + 1xASI outputs
HDE-3MCH	6389	1RU Rack mount chassis; holds 3 modules

Made in U.S.A.

 $\operatorname{\mathsf{Dolby}}\nolimits \ensuremath{\mathbb{R}}$ is a registered trademark of Dolby Laboratories.

Rev: 030818 Blonder Tongue is ISO 9001:2015 Certified

Call Us: 954.427.5711 Toll Free: <u>888.293.5856</u>

Specifications

Input

Component Connectors: Video Resolution: Video Aspect Ratio: Audio:	480i, 720p, & 1080i
HD-SDI Connector: Standard: Video Resolution: Audio:	1x BNC SMPTE 292M 480i, 720p, & 1080i Embedded PCM and Dolby® Digital pass-through only
HDMI Connector: Video Resolution: HDCP Encryption: Audio:	1x HDMI 480i, 720p, & 1080i Not supported Embedded PCM and Dolby® Digital pass-through only
VGA Connectors: Video Resolution: Audio:	2x Female VGA (Input + Loop-through Output) 640x480 @ 60 fps 800x600 @ 60 fps 1024x768 @ 60 fps 2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM and Dolby® Digital pass-through only)
Composite Connectors: Video Resolution: Audio:	1x RCA for Video (Y) 480i 2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM and Dolby® Digital pass-through only)
Encoding Profile	
Video Bit Rate:	480i, 720p, & 1080i
Output Format: Sampling Rate: Bit Rate:	Dolby® Digital 48 kHz Variable; 96 - 448 Kbps (user-selectable)
Closed Captioning Component: HD-SDI: HDMI: VGA: Composite:	EIA-608; 1x RCA(CC) EIA-708; Embedded in HD-SDI input EIA-608; 1x RCA(CC) EIA-608; 1x RCA(CC) EIA-608

Output

QAM	
Connector:	1x "F" Female (Rear-panel)
Modulation:	QAM 16, 32, 64, 128, and 256
Standards:	ITU-T J.83; Annex A and B
DVB Symbol Rate:	Variable; up to 7 MSymbol/sec (MBaud)
Frequency Range:	
Tuning:	
Channels' Bandwidth:	
RF Level:	+40 dBmV ±1 dB
RF Level Adjustment:	+35 to +42 dBmV, 1 dB increment
Frequency Tolerance:	
Frequency Stability:	
Amplitude Flatness:	± 0.25 dB (over 6 MHz channel)
Phase Noise:	-98 dBc (@ 10 kHz)
Spurious:	-60 dBc
Broadband Noise:	-70 dBc (@ +40 dBmV output level, 5.5 MHz bandwidth)
Impedance:	75 Ω
Spectral Inversion:	Auto Recognition
Carrier Suppression:	45 dB
Return Loss:	
Signal-to-Noise Ratio (SNR):	40 dB typical
MER:	
I/Q Phase Error:	Less than 1 degree
I/Q Amplitude Imbalance:	
ASI	
Connectors:	1x BNC (Front-panel)
Format:	
Standard:	2.2.1.0.
TS Bit Rate:	
IP Ourseter	
Connector:	
Standard:	
TS Bit Rate:	
UDP/RTP:	Supported (user-selectable)

General

Dimensions (W x D x H):	5.65 x 14.10 x 1.72 inches (143.5 x 358.1 x 43.7 mm)
Power:	External Power Supply (Input 120 VAC/ output 12 VDC@ 3 Amps)
Power Dissipation:	20 W
Weight (one module):	1.75 lbs (0.795 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 ℃ max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 ℃ max, non-condensing

Alarms/Monitoring/Control

Local Monitoring: Local Control:	1x Power LED 1x Status LED 1x IP Reset button
Remote Monitoring and Control:	GUI-based menu via standard Web browser (1x RJ45 connector; 100/1000Base-T, also used for IP output)



Related Products

Model

Description

HDE-CHV-QAM/IP HDE-1C-QAM MPEG-2 HD Encoder; 1xComponent/HDMI/VGA/Composite to 1xQAM + 1xIP MPEG-2 HD Encoder; 1xComponent/Composite inputs to 1xQAM + 1xIP

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