

Blonder Tongue HDE-CSV-QAM/IP High Definition MPEG-2 Encoder Module

Component	3x RCA for Video (Y, Pb, Pr)
Connectors:	480i, 720p, & 1080i
Video Resolution:	4:3 & 16:9
Video Aspect Ratio:	2x RCA for Analog Audio (L, R)
Audio:	1x RCA for Digital Audio (PCM)
HD-SDI Connector:	1x BNC
Standard:	SMPTE 292M
Video Resolution:	480i, 720p, & 1080i
Audio:	Embedded PCM and pass-through Dolby® Digital only
HDMI Connector:	1x HDMI
Video Resolution:	480i, 720p, & 1080i
HDCP Encryption:	Not supported
Audio:	Embedded PCM & pass-through Dolby® Digital only
VGA Connectors:	2x Female VGA (Input + Loop-through Output)
Video Resolution:	640x480 @ 60 fps
Audio:	800x600 @ 60 fps
	1024x768 @ 60 fps
	2x RCA for Analog Audio (L, R)
	1x RCA for Digital Audio (PCM)
Composite Connectors:	1x RCA for Video (Y)
Video Resolution:	480i
Audio:	2x RCA for Analog Audio (L, R)
	1x RCA for Digital Audio (PCM)
Encoding Profile	
Video	
Output Format:	MPEG-2 HD MP@ML; ISO 13818-2
Chroma:	4:2:0
Resolution:	480i, 720p, & 1080i
Frame Rate:	29.97 fps (480i); 29.97 fps (1080i); 59.97 fps (720p)
Aspect Ratio:	4:3 & 16:9
GOP Structure:	I & P frames (user-selectable)
Video Bit Rate:	Variable (user-selectable)
Video Pre-filter:	Variable (user-selectable)
Color Space:	YCbCr and RGB
Audio	
Output Format:	Dolby® Digital
Sampling Rate:	48 kHz
Bit Rate:	Variable; 96 - 448 Kbps (user-selectable)
Local Monitoring:	1x Power LED
	1x Status LED
Local Control:	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)
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:	5 to 1002 MHz
Tuning:	CATV Channel Selectable (Ch. T7 to T14, 2 to 158)
Channels' Bandwidth:	6 MHz
RF Level:	+40 dBmV ±1 dB
RF Level Adjustment:	+35 to +42 dBmV, 1 dB increment

Frequency Tolerance:	± 0.5 kHz @ 77 °F (25 °C)
Frequency Stability:	± 5 kHz over 32 to 122 °F (0 to 50 °C)
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:	14 dB typical
Signal-to-Noise Ratio (SNR):	40 dB typical
MER:	40 dB typical
I/Q Phase Error:	Less than 1 degree
I/Q Amplitude Imbalance:	Less than 1%
ASI	
Connectors:	1x BNC (Front-panel)
Format:	DVB-ASI
Standard:	ETSI EN 50083-9
TS Bit Rate:	Variable (user-selectable)
IP Connector:	1x RJ45 (Front-panel)
Standard:	100/1000Base-T Ethernet
TS Bit Rate:	Variable (user-selectable)
UDP/RTP:	Supported (user-selectable)
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 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing