

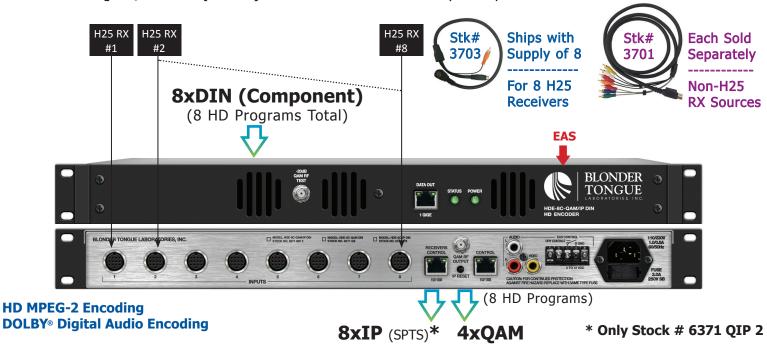
Blonder HDE-8C DIN (Opt 2) TONQUE MPEG-2 HD Encoder for DIRECTV

SOLUTIONS FOR ALL YOUR APPLICATIONS

The **HDE-8C DIN (OPT 2)** encoders are designed to be used with eight (8) DIRECTV H25 satellite receivers, or any non-H25 receiver source providing component/composite video outputs.

The **HDE-8C-QAM DIN (OPT 2)** encoder digitizes and MPEG-2 encodes each input into a high-definition stream. The eight (8) program streams are multiplexed and then modulated onto four adjacent QAM channels in the 54-1002 MHz range (CATV 2-158).

The HDE-8C-QAM/IP DIN (OPT 2) encoder includes an IP output to provide 8xSPTS.



Features

- Accepts 8 HD programs from DIN inputs
- Digitizes, MPEG-2 encodes, and modulates up to 8 inputs into 4xQAM output channels (2 Prog. per QAM Ch.)
- Configurable to ITU-T J.83 Annex A and B digital QAM formats
- Provides a front-panel -20 dB RF test point
- Provides 8xSPTS outputs on OAM/IP model
- Supports user-defined PSIP configuration
- Supports custom video and transport stream bit rate settings
- Supports Real-time Dolby[®] Digital audio encoding
- Supports Closed Captioning EIA-608 for each of the 8 encoded programs
- Equipped w/ EAS interface (Analog Video + L/R Audio) and triggering, compatible with all EAS receivers
- Provides comprehensive GUI-based monitoring and control via standard Web browsers

Ordering Information

Model	Stock #	Description
HDE-8C-QAM DIN (OPT 2)	6371 Q 2	HD Encoder for DIRECTV H25 RX Control; 4xQAM outputs
HDE-8C-QAM/IP DIN (OPT 2)	6371 QIP 2	HD Encoder for DIRECTV H25 RX Control; 4xQAM + 8xIP outputs
H258C DIN to RCA Cable	3701	13 Pin DIN to 7xRCA Cable; 72 inches
H258C DIN Cable	3703	10 Pin DIN + 1xRCA to 13 Pin DIN Cable; 24 inches

Input

	8xDIN (13 pin); each DIN socket provides connections for component video, L/R audio, digital audio (PCM and Dolby® Digital pass-through only) and Closed Captioning 480i, 720p, & 1080i 4:3 & 16:9
EAS (Emergency Alert System) Connectors: Trigger Mechanism:	, ,

Encoding Profile		
Video	Output Format: Chroma: Resolution: Frame rate: Aspect Ratio: GOP Structure: Video Bit Rate: Video Pre-filter:	MPEG-2 HD MP@ML; ISO 13818-2 4:2:0 480i, 720p, & 1080i 29.97 fps (480i); 59.97 fps (720p); 29.97 fps (1080i) 4:3 & 16:9 I & P frames (user-selectable) Variable (user-selectable) Variable (user-selectable)
Audio	Output Format: Sampling rate: Bit rate:	Dolby® Digital 48 kHz Variable; 96-448 Kbps (user-selectable)
		via DIN EIA- 608

Output

QAM	
Connector:	1x "F" Female (rear panel; up to 4x RF QAM ch. combined)
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:	54 to 1002 MHz
Tuning:	
Channel Bandwidth:	2 1 1 11 12 (17.7 14)400111 0 1 11 12/
RF Level:	· To ability = 1 ab (Talainies combined)
RF Level Adjustment Range:	+35 to +42 dBmV, 1 dB increments
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:	(C)
Spurious:	
Broadband Noise:	-70 dBc (@ +40 dBmV output level, 5.5 MHz bandwidth)
Impedance:	
Spectral Inversion:	Auto Recognition
Carrier Suppression:	45 dB
Return Loss:	1 1 45 4/5.54
Signal-to-Noise Ratio (SNR):	
MER:	39 dB typical
I/Q Phase Error:	Less than 1 degree
I/Q Amplitude Imbalance:	Less than 1%
GigE *	
Connector:	1xRJ45 (front panel)
Standard:	10000000 1 20000000
TS Bit Rate:	
UDP/RTP:	Supported (user-selectable)
Address Assignment:	8xIPv4 Address and port numbers (user-selectable)

^{*} Stock # 6371 QIP 2 Only

Alarms/Monitoring/Control

Local Monitoring: Local Control:	1x Status LED 1x Power LED 1x "F" Female RF Test Port (QAM Models Only) 1x IP Reset button
Remote Monitoring/Control:	GUI-based menu via Web browser (1x RJ45 connector; 10/100Base-T)

General

Dimensions (W x D x H):	19.0 x 16.0 x 1.75 inches (483 x 406 x 45 mm)
Power:	110 - 230 VAC, 50/60 Hz (Fuse: 4.0A, 250 VDC, Slo Blo)
Power Dissipation:	~60 W
Weight:	~7.2 lbs (3.27 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

Related Products

Model	Description
AQT8-QAM/IP	8xATSC/QAM inputs; IP + QAM outputs
HDE-CSV-QAM/IP	1xComponent/HD-SDI/HDMI/VGA/Composite inputs; 1xQAM + 1xASI + 1xIP outputs
HDE-CHV-QAM/IP	1xComponent/HDMI/VGA/Composite inputs; 1xQAM + 1xIP outputs
BT-HE-DASHBOARD	Headend Controller for up to 20 supported units including: HDE-8C-QAM w/Opt 2, HDE-8C-QAM DIN (Opt 2), AQT8-QAM/IP, and AQT8-IP
BaR GameChanger	Blonder Tongue's Free iOS/Android App provides personalized TV control service for

Bars & Restaurants allowing control all viewing locations with this easy-to-use, easy-to-

configure app that runs on wi-fi.