

HDE-8C DIN (Opt 2)

MPEG-2 HD Encoder for DIRECTV

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.



HD MPEG-2 Encoding DOLBY® Digital Audio Encoding

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 1.83 Annex A and B digital OAM formats
- Provides a front-panel -20 dB RF test point
- Provides 8xSPTS outputs on QAM/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

Made in U.S.A.

Dolby® is a registered trademark of Dolby Laboratories.

Rev: 042418 Blonder Tongue is ISO 9001:2015 Certified

Input

Video Resolution:	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
	3x RCA (Video, Audio L & R) 5-12 VDC & Dry Contact Closure (Terminal Strip)

Encoding Profile		
R F Asj GOP Vide	ut Format: Chroma: Resolution: Forme rate: pect Ratio: Structure: o Bit Rate: o 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)
	ut Format: pling rate: Bit rate:	Dolby® Digital 48 kHz Variable; 96-448 Kbps (user-selectable)
Closed Captioning Connector: Component:		via DIN EIA- 608

Output

CAM	
Connector: Modulation: Standards: DVB Symbol Rate: Frequency Range: Tuning: Channel Bandwidth: RF Level: RF Level Adjustment Range: Frequency Tolerance: Frequency Stability: Amplitude Flatness: Phase Noise: Spurious: Broadband Noise: Impedance: Spectral Inversion: Carrier Suppression: Return Loss: Signal-to-Noise Ratio (SNR): MER:	54 to 1002 MHz CATV Channel Selectable (CH. 2 to 158) 24 MHz (4x Adjacent 6 MHz) +40 dBmV ± 1 dB (4 channels combined) +35 to +42 dBmV, 1 dB increments ± 0.5 kHz @ 77 °F (25 °C) ± 5 kHz over 32 to 122 °F (0 to 50 °C) ± 0.25 dB (over 6 MHz channel) -98 dBc (@ 10 kHz) -60 dBc -70 dBc (@ +40 dBmV output level, 5.5 MHz bandwidth) 75 Ω Auto Recognition 45 dB 14 dB typical 40 dB typical 39 dB typical
I/Q Phase Error: I/Q Amplitude Imbalance:	
GigE*	1.545
Connector: Standard: TS Bit Rate: UDP/RTP: Address Assignment:	1000Base-T Ethernet Variable (user-selectable)

^{*} Stock # 6371 QIP 2 Only

Alarms/Monitoring/Control

Local Monitoring:	1x Status LED 1x Power LED
Local Control:	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 ℃ 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.