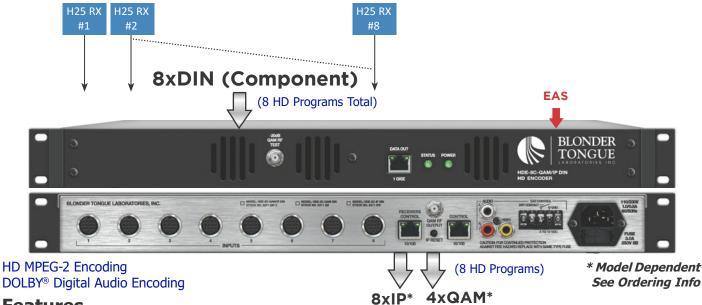
HDE-8C DIN Series w/Opt2 Blonder **MPEG-2 HD ENCODER** 8xDIN (Component) to 4xQAM/8xIP*

The HDE-8C DIN Series of encoders offers the ability to deliver eight (8) HD programs in just 1RU to preserve valuable rack space. The encoder is designed to be seamlessly interconnected to eight (8) DIRECTV H25 satellite receivers using factory supplied DIN cables (Quantity 8; Stock# 3703).

The unit 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 watermarked QAM* channels in the 54-1002 MHz range (CATV 2-158). Models equipped with an IP output provide 8xSPTS with watermarking.

The encoder supports Dolby[®] Digital audio encoding and Closed Captioning (EIA-608) for each of the eight encoded programs. An Emergency Alert System (EAS) interface consisting of a composite video and L+R audio program input is provided on all models. Comprehensive remote monitoring and control of the encoder, as well as the H25 receivers are accomplished using any standard Web browser via a rear-panel 10/100Base-T Ethernet connection.



Features

- Accepts 8 HD programs from DIN inputs (Receiver to encoder DIN cables are included)
- Digitizes, MPEG-2 encodes, and modulates up to 8 inputs into 4xQAM* output channels (2 programs per QAM channel)
- Configurable to ITU-T J.83 Annex A and B digital OAM formats
- Provides 8xSPTS outputs on IP equipped models
- · Provides comprehensive GUI-based monitoring and control via standard Web browsers
- Provides a front-panel -20dB RF test point (QAM models only)
- Equipped with EAS interface (Analog Video + L/R Audio) and triggering compatible with all EAS receivers
- Supports Real-time Dolby^(R) Digital audio encoding
- Supports Closed Captioning EIA-608 for each of the 8 encoded programs
- Supports user-defined PSIP configuration

Ordering Information

Blonder Tongue is ISO 9001:2008 Certified Dolby® is a registered trademark of Dolby Laboratories.

Model	Stock #	Description	
HDE-8C-QAM/IP DIN	6371 QIP 2	MPEG-2 HD Encoder for DIRECTV H25 Receivers; 4xQAM + 8xIP ou	Itputs
HDE-8C-QAM-DIN	6371 Q 2	MPEG-2 HD Encoder for DIRECTV H25 Receivers; 4xQAM outputs	
HDE-8C-IP DIN	6371 IP 2	MPEG-2 HD Encoder for DIRECTV H25 Receivers; 8xIP outputs	
H258C DIN CABLE	3703	DIN Cable; 13 to 10 Pin with Digital Audio RCA; 24" long	* Model Dependent

Specifications

Input

Component

Connectors:

8xDIN (13 pin); each DIN socket provides connections for component video, L/R audio, digital audio and Closed Captioning

Video Resolution: 480i, 720p. & 1080i Video Aspect Ratio: 4:3 & 16:9

EAS (Emergency Alert System)

Connectors: Trigger Mechanism: 3xRCA (Video, Audio L & R) 5-12 VDC & Dry Contact Closure (Terminal S trip)

Encoding Profile Video

Output Format: Chroma: Resolution: Frame rate:

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)

Aspect Ratio: GOP Structure: Transport Rate: Video Bit Rate: Video Pre-filter:

Audio

Output Format: Sampling rate: Bit rate:

Dolby[®] Digital 48 kHz Variable; 96-448 Kbps (user-selectable)

Variable (user-selectable)

via DIN

EIA- 608

Closed Captioning

Connector: Component:

Storage Humidity:

General

Power: Power Dissipation: ~ 60W Weight: Operating Temperature: 32 to 122°F (0 to 50 °C) Storage Temperature: Operating Humidity:

Related Products

Dimensions (W x D x H): 19.0 x 16.0 x 1.75 inches (483 x 406 x 45mm) 110-230 VAC, 50 /60 Hz (Fuse: 4.0 A, 250 VDC, Slo Blo) ~ 72 lbs (327 kg) -13 to 158 °F (-25 to 70 °C) 0 to 95% RH @ 35 °C max, non-condensing 0 to 95% RH @ 35 °C max, non-condensing

Output QAM *

Connector:

Modulation: Standards: **DVB Symbol Rate:** Frequency Range: Tuning: Channel Bandwidth: RF Level: RF Level Adj Range: Frequency Tolerance: Frequency Stability: Amplitude Flatness: Phase Noise: Spurious: Broadband Noise:

Impedance: Spectral Inversion: Carrier Suppression: Return Loss: SNR: MER: I/Q Phase Error: I/Q Amplitude Imbal.:

GigE *

Connector: 1xRJ45 (front panel) Standard: 1000Base-T Ethernet UDP/RTP: Supported (user-selectable) Address Assignment: 8xIP v4 Address and port numbers (user-selectable)

1x "F" Female (rear panel;

ITU-T J.83; Annex A and B

24 MHz (4x Adjacent 6 MHz)

±0 .5 kHz @ 77°F (25°C)

-98 dBc (@10 kHz)

5.5 MHz bandwidth)

Auto Recognition

14 dB typical

40 dB typical

39 dB typical

Less than 1%

Less than 1 degree

-60 dBc

750

45 dB

54 to 1002 MHz

up to 4x RF QAM CH. Combined)

Variable; up to 7 M Symbol/sec (M Baud)

CATV Channel Selectable (CH. 2 to 158)

+40 dBmV ± 1 dB (4 channels combined)

+35 to +42 dBmV, 1 dB increments

±5 kHz over 32 to 122°F (0 to 50°C)

-70 dBc (@ +40 dBmV output level,

±0.25 dB (over 6 MHz channel)

QAM 16, 32, 64, 128, and 256

Alarms/Monitoring/Control

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

* Model Dependent

Model	Description			
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.			
BT-HE-DASHBOARD	Headend Controller for HDE-8C-QAM encoders			
	(Future updates to include AQT8-QAM/IP transcoders, HDE-CSV-QAM/IP and HDE-CHV-QAM/IP encoders)			
HDE-8C-QAM	MPEG-2 HD Encoder; 8xComponent/Composite + 1xSpare inputs; 4xQAM + 1xASI outputs; EAS compatible			
AQT8-QAM/IP	ATSC/QAM Transcoder; 8xATSC/QAM inputs; IP + QAM outputs			
HDE-CSV-QAM/IP	MPEG-2 HD Encoder; 1xComponent/HD-SDI/HDMI/VGA/Composite inputs; 1xQAM + 1xASI + 1xIP outputs			
HDE-CHV-QAM/IP	MPEG-2 HD Encoder; 1xComponent/HDMI/VGA/Composite inputs; 1xQAM + 1xIP outputs			

NACE (800) 688-9282 sales@nace.tv www.nace.tv