

ENC3740

HEVC H.265 4K High Definition
Multi-Service Encoder



ENC3740 Live multichannel H.265 & H.264 HDMI 4K Video Encoder, capable of up to max 3840*2160P. This HDMI Video encoder supports H.265 encoding, which is ideal choice for customers who need lower bit rate video transfer over LAN networks, whilst maintaining high quality video. It provides up to 12 channels of superior quality constant bit rate (CBR) or variable bit rate (VBR) HEVC/H.265, MPEG-4 AVC (H.264) with AAC, AC3 Bypass and MPEG-1 L2 audio. Very flexible configurable the number of channels inputs to plug-in HDMI board. The encoder provides IP output that meets DVB TS stream standard.

ENC3740 build from the ground up for broadcasting applications, this platform adds many new features to the DIBSYS encoder line. It provides many benefits in multi-channel encoding systems due to efficient performance.

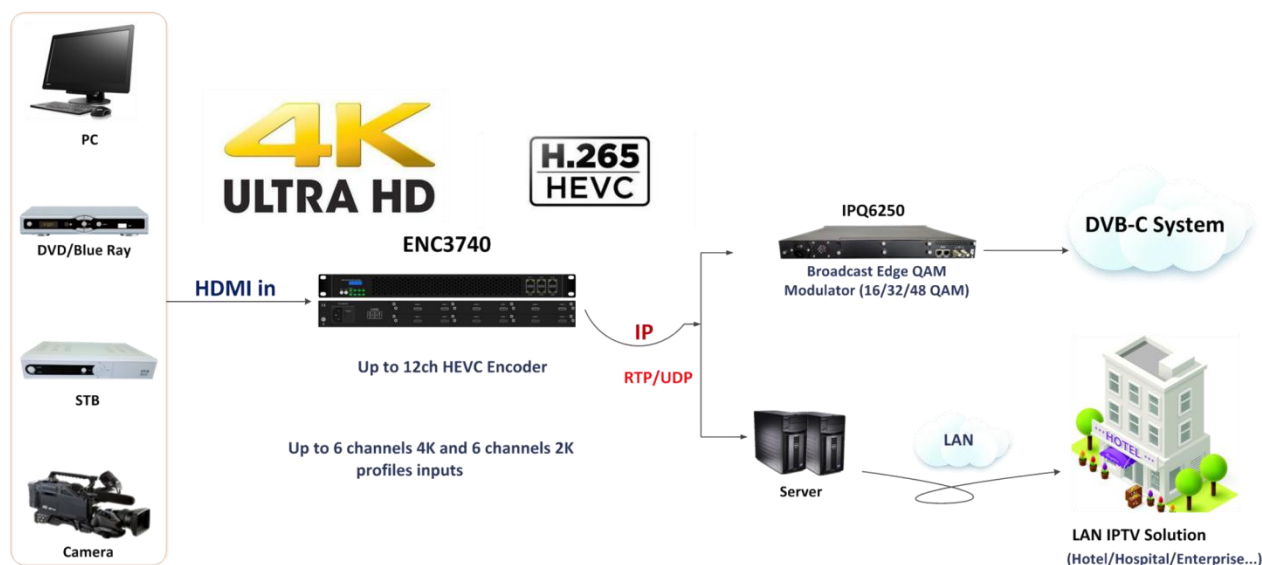
ENC3740 encoding device used to stream video and audio across any IP network. The unit can be used in CATV systems, security or hospitality applications where linear IP video is required. It allows users to configure, monitor and manage over the front panel, Web interface, which provide users flexible choices to control the encoder at anytime and anywhere.

Features

- Optional 2/4/6/8/10/12Channels encoding, 2 HDMI, GbE IP out per Module, 6 Modules per 1RU Chassis
- Up to 6 channels 4K and 6 channels 2K profiles inputs
- H.265/H.264 HD encoding video output rate range: 1 ~ 30Mbps (SPTS), 60Mbps (MPTS),
- Superior real-time HEVC/H.264 encoding
- Supports various common resolution formats
- CBR/VBR video bitrate mode supported
- Audio encoding mode support MPEG-1 L2, AC3 Bypass, AAC.
- MPEG-1 - L2/AAC audio bitrate support: 64Kbps, 968Kbps,
- 128Kbps, 192Kbps, 256Kbps, 384Kbps
- Audio sampling rate support: Auto, 32KHz, 44.1KHz, 48KHz
- Single board system output rate range: 2 ~ 60Mbps output bit rate encoding, multiplexing the output rate of 2 ~ 150Mbps
- Using LCD monitor, the system can monitor the state and set up the system parameters
- device parameter settings, upgrade with power down memory function through the WEB browser
- Automatic storage memory after power off

Main Application

- Digital TV head-end system
- IPTV, Over-the-air TV distance learning
- Remote live Rebroadcasts and real-time transmission
- UHD, HD or SD video via private IP networks
- Carrier-grade Cable TV, Satellite Up-link
- Video over Coax Cable solution in Hotel, Campus, Enterprise



TECHNICAL SPECIFICATIONS

Input

HDMI Input	2/4/6/8/10/12x HDMI inputs version14, compatible with S/PDIF (IEC90658), Impedance 100Ω
Up to 6 channels 4K and 6 channels 2K profiles inputs	
Inputs Bitrate	270Mbps~1485Mbps
Quantization	16bit
Video Format	Auto, 1920*1080P50, 1920*1080P59.94, 1920*1080P60, 920*1080I50, 1920*1080I59.94, 1920*1080I60, 1280*720P50, 1280*720P59.94, 1280*720P60, 720*576I, 720*480I

Output

IP Port	1
MPEG-TS/IP Output	Up to 100/1000M base-T, Full Duplex
Bit rate	1~30Mbps(SPTS), 60Mbps(MPTS)
Data Protocol	MPEG-2 TS over UDP, unicast, and multicast streaming
	7x188 bytes per packet
	Filter Null Packet

Video Coding

Resolution	Auto, 1920*1080P25, 1920*1080P30, 1920*1080P50, 1920*1080P59.94, 1920*1080P60, 1280*720P30, 1280*720P25, 1280*720P50, 1280*720P59.94, 1280*720P60, 576P25, 480P29.97
Comply to the International standard	HEVC/H.265, MPEG-4 AVC /H.264, H.264/AVC High Profile Level 4.0
Profiles and Levels	H.264 Main, High Up to L4.2
Output Rate	Each Encoder 2~20 Mbps (HD); 0.5~7 Mbps (SD)
Bit rate mode	VBR/CBR
Video screen ratio	4:3; 16:9
	Spatial preprocessing, Scene change Detection

Audio Coding

Sampling Rates	Auto, 32KHz, 44.1KHz, 48KHz
Bit rate	64, 96, 128, 192, 256, 384Kbps
Encoding Format	AC3 Bypass, MPEG-1 L2, AAC
Quantization	24bit
	HDMI embedded

Management

Management Port	Web-GUI, RJ45, 100/1000 Base-T, shared with data port
Each module has independent NMS port management.	
Language	English

Environment

	Comply to GB13837-92 & GB8898-88 standard
Power Supply	100V~240VAC 50/60Hz
Power consumption	≤75 W
Operation temperature	0°C ~45°C (32°F ~113°F)
Storage temperature	-25°C ~80°C (-13°F~176°F)
Dimensions	400 (L)x483(W)x44mm(H) (1RU)
Weight	5kg