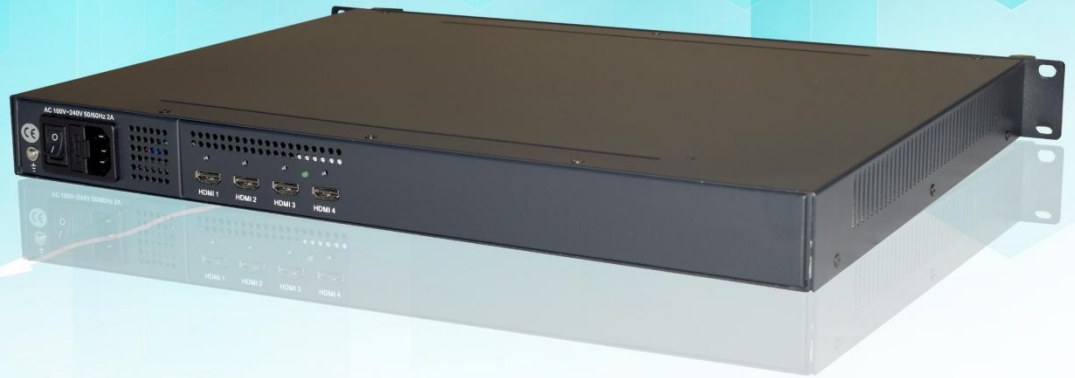


ENC3741

dibsys

Premium HEVC H.265 4K/FULL HD Encoder



ENC3741 content in a single slice in real-time via AVC (H.264) or HEVC (H.265), today's most advanced compression standards. Up to 12 HD video channels (4 channels in one module, up to 3 modules) can be encoded on the 1-RU chassis. It provides Simultaneous each or All encoding Channels IP outputs that meets MPEG2-TS stream standard.

ENC3741 with its wide range of encoding tools, HEVC offers incredible compression efficiency, making distribution and delivery of live HD/4K content available for satellite, cable, terrestrial and fiber networks. All in one MPTS to Next digital TV equipment as like Multiplexer, IPQAM Networks and Push SPTS Over UDP/IP to LAN IPTV Network Simultaneously.

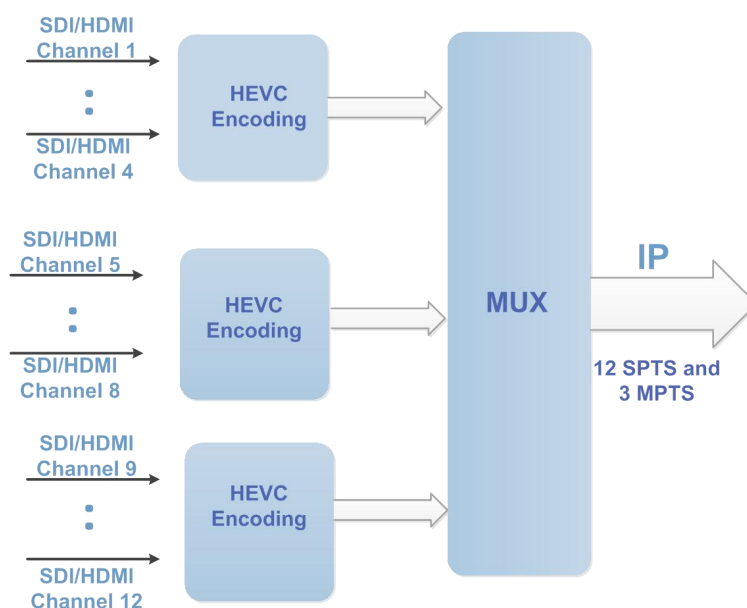
ENC3741 Power-efficient, Full-featured HEVC/H.265, AVC/H.264 SD/HD/4K Encoder is the best choice for any operator who wants to compress high-definition video using highly efficient HEVC compression. With high density, high reliability and advanced compress arithmetic, it is equipped with the latest advances in video compression technology to deliver unsurpassed video quality at low bitrates and low latency. For Telcos and other IP-based service providers, its highly bandwidth efficient HEVC encoding and native IP output make it possible to deliver exciting and competitive HD services to broadcast operators.

Features

- 12 HDMI video channels (4 channels in one module, up to 3 modules), SDI interface optional
- HDMI 1.4, HDCP 1.4
- HD single-slice encoding
- Superior real-time HEVC/H.264 420/422 10-bit encoding
- MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2 audio encoding
- Support 1080P @60fps input and output
- CBR/VBR video bitrate mode supported
- IP Output 3*MPTS & 12*SPTS (1 MPTS and 4 SPTS per module) over UDP and RTP
- Built-in time base correction and video pre-processing
- Supports SD/HD/4K formats and frames including 2160p@30/29.97p, 1080p, 1080i, 720p, 480i, 576i@50/59.94/60fps
- Real-time Transport Protocol (RTP), RTSP and User Datagram Protocol (UDP) support
- PID Remapping & Filtering
- Null Packet Filter & Insertion
- Real-time output bit-rate monitoring
- Web-based user interfaces
- Ethernet software & hardware upgrade supported
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) ≥ 87600 Hours

Main Application

- Carrier-grade Cable TV, Satellite Up-link
- Terrestrial DVB-T/T2 and ISDB-T/Tb
- TV studio station
- Video over Coax Cable solution in Hotel, Campus, Enterprise
- 1080p@60fps FullHD Video encoding of IPTV



TECHNICAL SPECIFICATIONS

Input Interfaces

Number of Channels	4, 8, 12 Ports, 4 channels in one module, up to 3 modules HDMI 1.4, HDCP 1.4, SDI interface optional
4K (only for H.265/HEVC encoding, and supports two channels per module)	

Stream Output

RJ45 Port	1 MPTS and 4 SPTS (per module) output over UDP/RTP, 1000M/100M Base-T Ethernet interface MPEG-2 TS over UDP, unicast, and multicast streaming MPEG-2 TS over RTP, RTSP 7x188Bytes Filter Null Packet Null packet insert(SPTS setting) Bitrate 0.5-5Mbps
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TS Multiplexing

	Built-in multiplexer for encoder cascading 75 Ω, BNC type, 188Bytes, ≦ 150Mbps
PSI/SI	PID Remap, SDT Insertion Program Number, Program Name Video/Audio/PMT/PCR PID

Video Encoding

Video Compression	HEVC/H.265, MPEG-4 AVC /H.264
Profiles and Levels	H.264 Main, High Up to L4.2
Chroma	4:2:0
Bit rate	1Mbps~29Mbps
Encoding Schemes	CBR/VBR
GOP Structure	IBBP, IPPP Fixed/Adaptive GOP Hierarchical GOP Open/closed GOP
Advanced Preprocessing	Noise reduction, Sharpening
Pre-Processing	Deblocking filter Sample Adaptive Offset (SAO) Asynchronous Motion Partitioning (AMP) Coding Tree Block (CTB) from 16x16 to 64x64

Audio Encoding

Sampling Rates	48KHz
Bit rate	64,96,112,128,160,192,224, 256, 320,384kbps
Audio encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2
Audio gain	0-255
Audio delay	0~50

Resolution

Encoding Resolution	1920×1080_60P, 1920×1080_59.94P, 1920×1080_50P, 1280×720_60P, 1280×720_59.94P, 1280×720_50P
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Management

Management Port	Web-GUI, RJ45, 100M
Each module has independent NMS port management.	
Configuration	Save/Restore/Facture/Backup/Load Setting
Language	English

CONTROL & MONITORING

	Ethernet software & hardware upgrade
	Dual GbE interfaces for C&C
	Embedded web server

Environment

Electromagnetic Compliance	Comply to GB13837-92 & GB8898-88
Power Supply	AC 100-250V ± 10%, 50/60Hz
Power consumption	25W
Operation temperature	-10 - 50°C
Storage temperature	-10 - 75°C
Dimensions (H x W x D)	328 mm×482mm×44mm (1RU)
Weight	4kg

Products Information

Models	Description
ENC3741-4	4Channels HDMI Inputs, SDI interface optional
ENC3741-8	8Channels HDMI Inputs, SDI interface optional
ENC3741-12	12Channels HDMI Inputs, SDI interface optional

Ordering Information

Product category	Product Model	Detail Description	Application
Related Products	12* HDMI h.264 FullHD Encoder ENC3240	4* HDMI/2* ASI MUX inputs and 2*ASI/1GbE RJ45 Port output per Module, Up to 3 Modules, H.264 Up to 1080p@60/59.94 / 50fps, Mpeg1 L2, SPTS/MPTS 5 Years Warranty	-Cable TV Operator -DTH, Terrestrial, Satellite Uplink -TV Studio Station
	24*HDMI H.264 HD Encoder ENC3281	4* HDMI input per module, up to 6 Modules, GbE RJ45 port, H.264 Up To 1080p30/25fps, MPEG 1 L2, N*SPTS/1*MPTS	-Cable TV Operator -Hotel, Campus -Upgrade Analog to Digital TV -Breakthrough Price !
	8*HDMI FullHD Encoder ENC3381	8 HDMI/ASI MUX input ASI/IP out,H.264 Up To 1080p50/59.94/60fps, MPEG 1 L2/AAC 8*SPTS/1*MPTS UDP/RTP out 3Years Warranty	-Cable TV Operator -Hotel, Campus -Upgrade Analog to Digital TV -DTH, Terrestrial, Satellite Uplink
Companion Products	Carrier-grade IP QAM Modulator IPQ6250	16 QAM no-adjacent/Two GbE IP per Module, 3 Modules/48QAM per 1RU, Annex A/B/C, Multiplexer/Scrambling; 5 Years Warranty	-Cable TV operator -Distribute video to QAM Network
	8Chs MPEG-2/H.264 Magnun SD Encoder ENC3184	Low bitrate; 8*AV(PAL, NTSC, SECAM)/ASI inputs; ASI/IP out; MPEG-2/H.264; MPEG-1 L2/LC-AAC/ HE-AAC V1/HE-AAC	-Cable TV Operator -DTH, Terrestrial, Satellite Uplink -TV Studio Station -IPTV