

ENC3741S

Premium HEVC H.264 FULL HD Encoder



dibsys



ENC3741S 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.

ENC3741S with its wide range of encoding tools, HEVC offers incredible compression efficiency, making distribution and delivery of live SD/HD content available for satellite, cable, terrestrial and fiber networks. All in one MPTS to Next digital TV equipment as like Multiplexer, IPQAM and DVB-T2 Networks and Push SPTS Over UDP/IP to LAN IPTV Network Simultaneously.

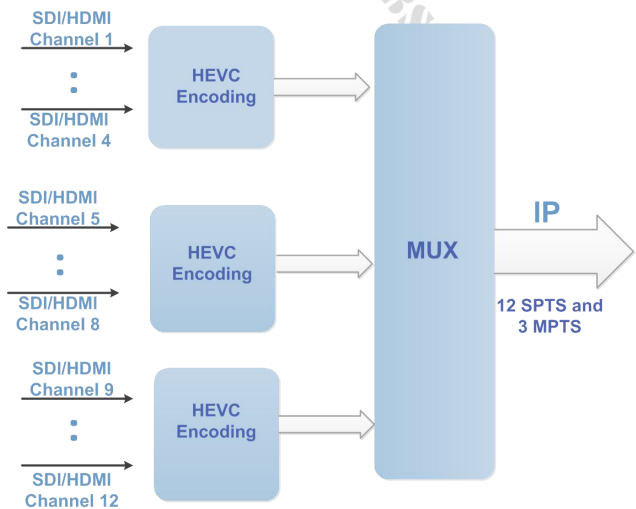
ENC3741S Ultra-low bitrate, Power-efficient, Full-featured HEVC/H.265, AVC/H.264 SD/HD Encoder is the best choice for any operator who wants to compress high-definition video using highly efficient HEVC compression. With high density, high reliability and advanced compress arithmetic, it is equipped with the latest advances in video compression technology to deliver unsurpassed video quality at low bitrates.

Features

- 12 HD-MI video channels (4 channels in one module, up to 3 modules), SDI interface optional
- HD-MI 1.4, HDCP 1.4
- HD single-slice encoding
- Superior real-time HEVC/H.264 encoding
- MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3 Passthrough 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
- LOGO,QR code,OSD insertion (optional per module)
- Ultra-low bitrate to save 75% Bandwidth
- Enhance picture Quality: Advanced Compressing Algorithm
- Built-in time base correction and video pre-processing
- 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

Main Application

- Carrier-grade Cable TV, Satellite Up-link
- Terrestrial DVB-T/T2 and ISDB-T/Tb
- TV studio station
- Low bitrate Live Streaming in limit Bandwidth
- 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 HD-MI 1.4, HDCP 1.4, SDI interface optional
Stream Output	
RJ45 Port	1 MPTS and 4 SPTS (per module) output over UDP/RTP, 1000M/100M Base-T Ethernet interface MPEG TS over UDP, unicast, and multicast streaming MPEG TS over RTP, RTSP 7x188Bytes Filter Null Packet
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---Version 1 HEVC/H.265---Version 2
Profiles and Levels	H.264 Main, High Up to L4.2
Chroma	4:2:0
Bit rate	0.5Mbps~20Mbps (HEVC/ H.265) 4 Mbps~20Mbps (MPEG 4 AVC/H.264)
Encoding Schemes	CBR/VBR
GOP Structure	IBBP, IPPP
Advanced Preprocessing	De-interlacing, Noise Reduction, Sharpening

Audio Encoding	
Sampling Rates	48KHz
Bit rate	48Kbps~384Kbps (MPEG-1 Layer 2 & LC-AAC) 24 Kbps~128 Kbps (HE-AAC) 18 Kbps~56 Kbps (HE-AAC V2)
Audio encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2, AC3 Passthrough
Audio gain	0-255
Resolution & Encoding Channels (per module)	
Input	1920x1080P@50/60 *4CHs 1920x1080I@50/60 *4CHs 1280x720P@50/60 *4CHs
Output	1920x1080P@50/60 *4CHs 1280x720P@50/60 *4CHs
Management	
Management Port	Web-GUI, RJ45, 100M
Each module has independent NMS port management.	
Language	English/Chinese
Environment	
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	5kg

Products Information

Models	Video encoding format
ENC3741S---Version 1	HEVC/H.265, MPEG-4 AVC /H.264
ENC3741S---Version 2	HEVC/H.265