ENC3143

Multi-channel SD MPEG-2 H.264 Encoder

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CE

MPEG2 H.264 MPEG-4/AVC SDI CVBS



ENC3143 multi-channel Encoder video/audio feeds as MPEG-2 SD and MPEG-4 AVC (H.264) SD, using MPEG-1 Layer-II, LC AAC, HE AAC audio compression. It adopts the slot structure with one device supporting maximum 3 encoder modules. Each module can work standalone. Designed to address this ever increasing demand for more video and audio services.

With high reliability and advanced compress arithmetic, it possible to transmit high quality video content at the lowest possible bandwidth.

Equipped with 4/8/12 CVBS or SDI inputs, ENC3143 is ideal for reducing the rack space required for SD program encoding for content source origination and distribution.. Additionally, single program transport stream (SPTS) outputs are provided for all inputs on the IP network output.

Key Features

- Modular design, 1U chassis support up to 3 modules
- 4/8/12*CVBS or SDI video inputs
- PAL and NTSC SD video formats (Only for CVBS input)
- MPEG-2 and MPEG4 AVC/H.264 Video encoding
- MPEG1 Layer 2, LC-AAC, HE-AAC and support audio gain adjustment
- IP output over UDP and RTP/RTSP
- support Null PKT Filter
- Support Logo, Caption, QR Code insertion, Language Supported: 中文, English, اردو, for more languages please consult us…
- support IPPP, IBPBP, IBBPB, IBBB GOP Structure
- Control via web management, and easy updates via web

Application

- Digital TV, OTT/IPTV head-end system
- Remote live Rebroadcasts and real-time transmission
- SD video via private IP networks
- Carrier-grade Cable TV, Satellite Up-link
- Video over Coax Cable solution in Hotel, Campus, Enterprise

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TECHNICAL SPECIFICATIONS

Input

Interface	RCA interface
Input	4/8/12CVBS
Optional Input	4/8/12 SDI input BNC interface

Output

IP Output Port	over UDP/RTP/RTSP IP (1*MPTS and 4*SPTS) per module 100M/1000M self-adaption

Video Coding

Encoding mode	MPEG-2, MPEG4 AVC/H.264
Bit rate	0.5～5 Mbps

	Input	Output
Resolution	720*576 @50i	720*576/352*288/320*240/320*180/ 176*144/160*120/160*90@50Hz
	720*480@60i	720*480/352*288/320*240/320*180/ 176*144/160*120/160*90@60Hz

Bit rate mode	CBR/VBR
GOP Structure	IPPP, IBPBP, IBBPB, IBBBP
Aspect Ratio	4:3, 16:9

Audio Coding

Sampling Rates	48KHz
Bit rate	64Kbps~384Kbps (each channel)
Bits per sample	32-bit
Encoding Format	MPEG1 Layer 2, LC-AAC, HE-AAC
Audio Gain	-20~+12 adjustable

Multiplexing

PID remapping (automatically or manually)
Accurate PCR adjusting
Generate PSI/ SI table automatically

Management

Remote Control	Web management
Language	Chinese/English
upgrade	Ethernet software upgrade

Environment

Power Supply	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz
Operation temperature	0°C ~45°C (32°F ~113°F)
Storage temperature	-20°C ~80°C (-4°F~176°F)
Dimensions	482mm×328mm×44mm

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