ENC3311Plus

Single Channel MPEG2 H.264 Full HD Encoder

SDI HDMI CVBS

H.264 MPEG-4/AVC MPEG2



ENC3311Plus, a single channel MPEG-2/ H.264 encoder, this new professional FULL HD video encoder for a solution to address the needs of early adopters of the premium TV standard. With high-quality MPEG-2 H.264 encoding, ENC3311Plus delivers FULL HD for an immersive experience with high-resolution and high-framerate.

ENC3311Plus encoder platform is available for both SD and HD MEPG-2 MPEG4 AVC encoding. It is equipped with the latest advances in video compression technology to deliver unsurpassed video quality at lowest bitrates, and low latency to achieve high image quality video and audio transmission, fully support for SDI/ HD-SDI, CVBS, HD-MI, YPbPr interface inputs encoding, both IP and two identical ASI data outputs.

ENC3311Plus highly bandwidth efficient MPEG-2, H.264 VBR CBR encoding and native IP output make it possible to deliver exciting and competitive HD services to broadcast operators.

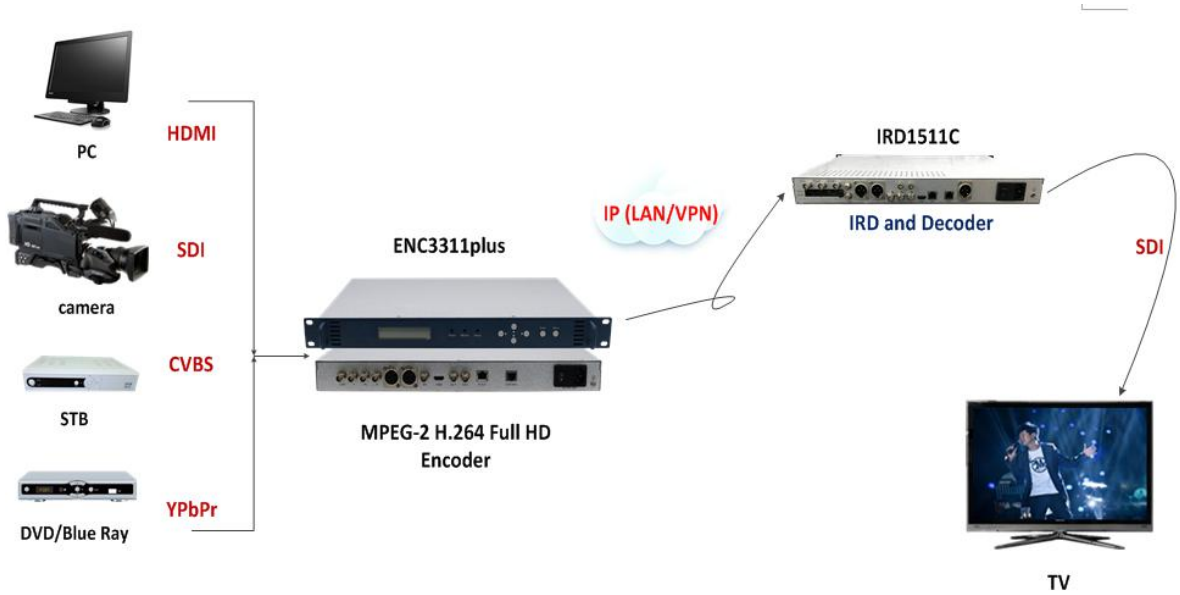
Features

- Advanced MPEG-2 MP@ML4:2:0 and MPEG-4 AVC 4:2:0 (H.264) video encoding
- ASIC technologies which offer broadcast, video quality, generally video bitrate advised: SD about 1.2mbps, 720p about 2mbps, 1080 about 6-8mbps for lowest bitrates
- HD-MI 1.3a interface, Auto detect the HD-MI input of resolutions
- Support the importation of SDI/HD-SDI, HD-MI, CVBS, YPbPr encoding
- Audio sampling Rates: 44.1 khz, 32khz, 48KHz
- MPEG-1 Layer II, MPEG-2 AAC-LC, MPEG-4 AAC-LC, MPEG-2 HE-AAC, MPEG-4 HE-AAC, Dolby Digital AC-3 (optional) audio encoding
- Supports unicast and multicast IP output UDP protocol as well as two identical ASI outputs
- WEB Management and local front panel
- Supports resolution: 1080i@50/60Hz, 720p@50/60Hz, 480i, 576i
- Built-in time base correction and video pre-processing
- Easy-to-Use System Management

Main Application

- Digital TV and IPTV headend system
- Point to Point video and audio over IP
- Remote live Rebroadcasts and real-time transmission
- Building, campus or metropolitan-area

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TECHNICAL SPECIFICATIONS

Input

Video Input	1 x CVBS, 75Ω, BNC 1 x Digital SMPTE 292M (HD-SDI) digital video, BNC 1 x HD-MI 1.3a 1 x YPbPr component video interface, Connector: BNC
Audio Input	analog stereo audio, XLR interface (balanced) HD-MI/SDI embedded audio

Output

DVB Interface	Two identical ASI, Comply to EN 50083-9 ASI Standard, BNC, 75Ω
IP output	100/1000M Base-T Ethernet UDP/RTP output, Multicast/Unicast supported
Output Format	188 /204 bytes per UDP packet
Output Rate	2Mbps~20Mbps

Video Encoding

H.264/MPEG-2 encoding format

H.264	High profile/Level 4.0
MPEG-2	Main profile
Resolution	1920×1080i @50/60fps, 1280×720p@50/60fps, 720X576I@50/60fps, 720X480I @50/60fps
In MPEG-2 encoding, only support SD output.	
Bit rate mode	VBR, CBR
GOP Structure	IBBP, IPPP, IBP, IBrBBP

Audio Encoding

Sampling Rates	48KHz, 44.1Khz, 32Khz
Bit rate	64, 128, 192, 256, 320 384kbps
Audio encoding	MPEG-1 Layer II, MPEG-2 AAC-LC, MPEG-4 AAC-LC, MPEG-2 HE-AAC, MPEG-4 HE-AAC, Dolby Digital AC-3 (optional)
Quantization	24bit
Audio Gain	0 ,+-6db, +-12db

Data Processing

PSI/SI Edition	PMT PID, Video Audio, PCR PID, Service ID Program Name, Service Provider TS id PCR Interval

Management

Interface	1*RJ-45, 10/100 Base-T, for equipment IP Control
Remote Control	Web management
Local Control	LCD display and keypad

Environment

	Comply to GB13837-92 & GB8898-88 standard
Power Supply	AC 100-250V 50/60Hz
Power consumption	20 W
Operation temperature	-10 - 50°C
Storage temperature	-10 - 75°C
Dimensions	450*350*44mm (1RU)
Weight	5Kg

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