

ENC3311Plus

DIBSYS

Single Channel MPEG2 H.264 Full HD Encoder



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 MPEG-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.

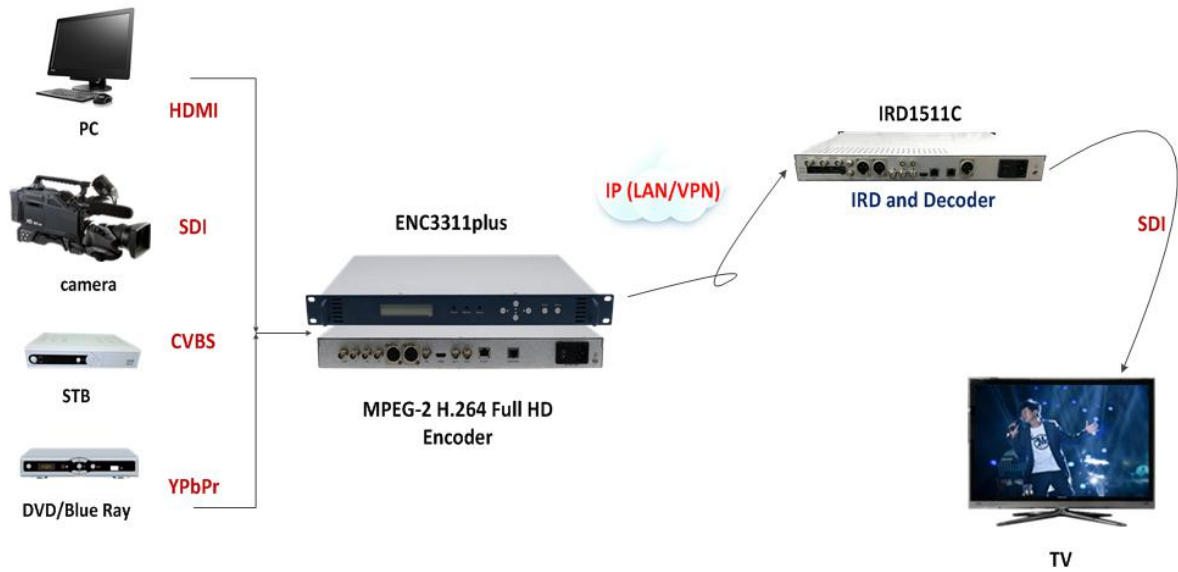
ENC3311Plus highly bandwidth efficient MPEG-2, H.264 VBR CBR encoding and native IP output make it possible to deliver exciting and competitive HD services to broadcast operators.

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 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: 1080p@50/59.94/60fps, 1080i@50/59.94/60fps, 720p@50/59.94/60fps, 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



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 x 1080p@50/59.94/60fps,
 1920 x 1080i@50/59.94/60fps
 1280x720p @50/59.94/60fps
 720x480,
 720x576,

In MPEG-2 encoding, only support SD output.

Bit rate mode VBR, CBR

GOP Structure IBBP, IPPP, IBP, IBrBBP

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

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

Power Supply Comply to GB13837-92 & GB8898-88 standard

Power consumption AC 100-250V 50/60Hz
 20 W

Operation temperature -10 - 50°C

Storage temperature -10 - 75°C

Dimensions 450*350*44mm (1RU)

Weight 5Kg

Ordering information

	Encoding format	Resolution
Version 1	H.264/MPEG-2	Up to 1920x1080i @50/59.94/60fps
Version 2	H.264	Up to 1920x1080p @50/59.94/60fps