

ENC3311Plus

DIBVISION | 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.

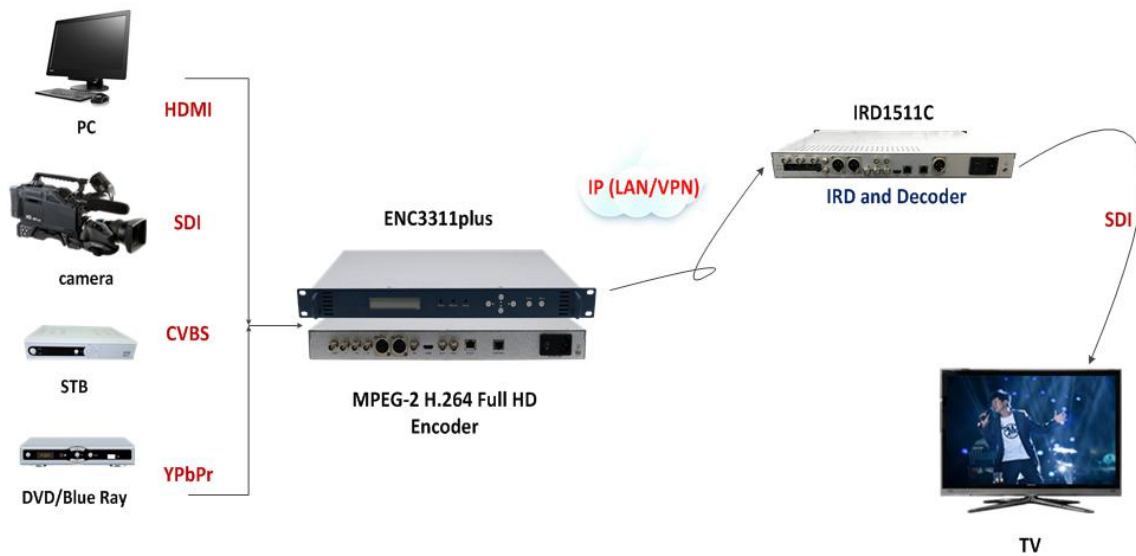
ENC3311Plus highly bandwidth efficient MPEG-2, H.264 VBR CBR encoding and native IP output make it possible to deliver exciting and competitive HD services to broadcast operators.

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: 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

Video format MPEG-2/H.264 MP@ML 4:2:0
 Resolution 1920 x 1080i @60/50fps,
 1280 x 720P@60/50fps,
 720 x 480i @60fps, 720x576i @50fps
 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
 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
 Operation temperature 20 W
 Storage temperature -10 - 50°C
 Dimensions -10 - 75°C
 Weight 450*350*44mm (1RU)
 5Kg

Related Products

	ENC3311Plus	ENC3411	ENC3311
video interface	1×SDI, 1×CVBS, 1×YPbPr, 1×HDMI	1×SDI, 1×CVBS, 1×YPbPr, 1×HDMI	1×SDI, 1×CVBS, 1×YPbPr, 1×HDMI
Video Encoding	MPEG-2/H.264	MPEG-2 HD/SD; MPEG-4 AVC/H.264 HD/SD	H.264 HD/SD
Rate Control	CBR/VBR	CBR/VBR	CBR/VBR
GOP	IBBP, IPPP, IBP, IBrBBP	IP, IPB, IPBB, IPBBB, IPBBBB, IPBBBBB	IBBP, IPPP, IBP, IBrBBP
Bit Rate	2-20Mbps	0.25Mbps~60.5Mbps	0.25-20Mbps
Resolution	1920 x 1080i @60/50fps, 1280 x 720P@60/50fps, 720 x 480i @60fps, 720x576i @50fps In MPEG-2 encoding, only support SD output	1920×1080i 1280x720p 720x576i 720x480i One SEG/PIP: 96×96, 128×96, 128×128, 192×192, 352×240, 352×288, 416×240	1920 x 1080p@50/59.94/60fps, 1920 x 1080i@50/59.94/60fps 1280x720p @50/59.94/60fps 720x480, 720x576
Audio Interface	2*XLR(balanced) SDI/HDMI embed audio	1*Digital (AES3/EBU), 2*Analog R /L and 2*XLR (balanced/unbalanced)	2*XLR(balanced) SDI/HDMI embed audio
Audio Encode	MPEG-1Layer2/MPEG2/AAC Audio	MPEG-1 Layer II,HE-AAC (v1&v2), LC-AAC; DD AC3 passthrough	MPEG-1Layer2/MPEG2/AAC Audio/AC3 pass through
Audio Channel	1 Stereos	Up to 2 stereos	1 Stereos
Chroma	4:2:0	4:2:0	4:2:0
ASI output	YES	YES	YES
IP out	MPTS/SPTS over UDP/RTP	MPTS/8*SPTS over UDP/RTP	MPTS/SPTS over UDP/RTP