

ENC3281

24* HDMI MPEG4 AVC HD Encoder



ENC3281 This unit is designed especially for high channel density Distribution Video Engineering project which support rapid deployment, **OSD/Logo/QR code Insertion** and compatibility **Up to 24 HDMI inputs** Simultaneously. It's ideal encoder for anyone looking for an easy and affordable way to support a large number of HD channels in low cost deployment such as a Medium/Small-Scale digital Cable TV system, Hotel, Campus, Private TV station, LAN IPTV Network.

ENC3281 HD Encoder which is a professional HD Audio & Video encoding and multiplexing device encoder streams high-quality video and audio, and it uses the H.264 video compression standard and MPEG 1 Layer 2 audio encoding. Depending on the number of programs you have, you can very flexibly choose a different number of coding channels.

This encoder can simultaneously encode N channels HD Audio & Video (8/12/16/20/24chs), It can generate N Channels SPTS and one MPTS through data port.and DVB-ASI output simultaneously.

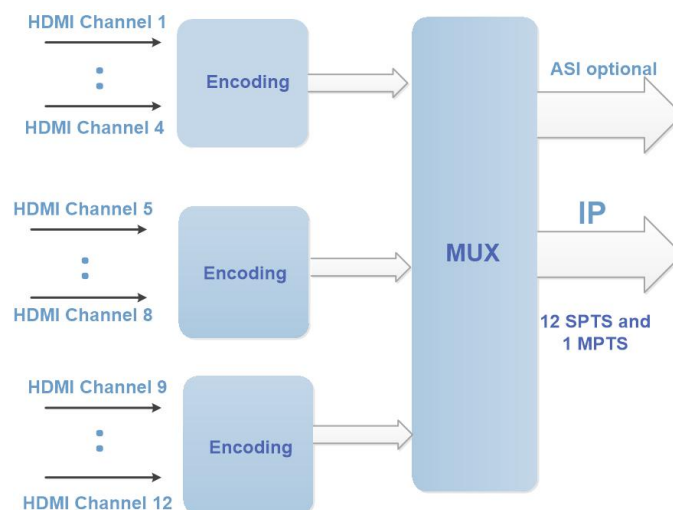
Main Features

- High density, modular 1-RU system capable of hosting up to Six HDMI Encoding input modules,each with quad HDMI channels
- MPEG-4 AVC HP@L4 video compression
- Feature to adjust the audio volume prior to encoding
- Simultaneous outputs via N* SPTS/1* MPTS over GbE IP Port
- MPEG-2 TS/UDP and RTP/RTSP over IP output
- Simultaneous outputs via IP, DVB-ASI(**Option**)
- PCR de-jittering and re-stamping
- Supports SD/HD formats and frames including 1080p, 720p, 576p, 480p@25/30fps
- Selectable the Value of PCR PID same as Video PID
- Support VBR and CBR bitrate mode
- PID Remapping & Filtering & CA Filter
- Selectable LOGO,QR code,OSD insertion for every, All or Each module of local channel
- One rack unit high density, low-power consumption, stackable
- Easy-to-use web GUI
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) \cong 87600 Hours
- Lowest cost per HD channe, breakthrough price

Application

- Huge Number of HD channels In limited budget
- Migrate analog to DTV project
- Hotel,Campus of Video engineering project
- Convert Video to IP Connected with Camera, PC, Satellite Set Top Box, Local layout
- Applications in Logo, OSD Insertion of Video picture

Principle Chart



TECHNICAL SPECIFICATIONS

Input Interfaces

Number of Channels	8 ports, 12 ports, 16 ports, 20 ports, 24 ports HDMI 1.4a HDCP Embedded in HDMI (1 pairs per video)
--------------------	---

Stream Output

DVB-ASI(Option)	1* ASI, 75Ω, BNC, 188Bytes MPEG-2 TS over DVB-ASI (EN 50083-9)
RJ45 Port	100/1000M GbE Port, 10/100M FE Port, RJ45 Simultaneous output with N*SPTS and 1*MPTS through Data1 or Data2 Port MPEG-2 TS over UDP, unicast, and multicast streaming MPEG-2 TS over RTP/RTSP Configurable packet size(2-7)x188Bytes Filter Null Packet
Total Bitrate	1-200Mbps (Should be More than Encoding bitrate)

Video Processing

Input Resolution	1920×1080@60P, 1920×1080@60i, 1920×1080@50P, 1920×1080@50i, 1280×720@60P, 1280×720@50P 720×576@50i,720×480@60i
Output Resolution	1920×1080@30P, 1920×1080@25P, 1280×720@30P, 1280×720@25P, 720×576@25P,720×480@30P
Encoding	MPEG-4 AVC/H.264
Profiles and Levels	H.264 Main,High Up to L4.2
Bit-rate	1Mbps~13Mbps
Encoding Schemesl	CBR, VBR
GOP Structure	IPPPP (P Frame adjustment, without B Frame)

Select to configure Logo,Caption and QRCocder in any Position of Video Picture

Audio Processing

Encoding	MPEG-1 Layer 2
Sampling rate	48KHz
Resolution	24-bit
Bit-rate	64kbps, 128Kbps, 192kbps, 224kbps, 256kbps, 320kbps, 384kbps
Audio Gain	0-255

Multiplexing

PID Processing	Max.180 input per channel PID remapping PID Filtering CA Filter
PSI/SI Editing	Service Name, Program Number, Service Type, Service Provider, PMT/PCR/Video/Audio PID PMT descriptor Tag, PMT Descriptor Data
PCR Re-Jitter	Accurate PCR adjusting Configurable PCR Interval

System function

Web Network management	English language
Ethernet software upgrade	Save/Restore/Facure Set/Backup/Load Setting
Log information printing in time	

Environment

Dimension(W×L×H)	482mm×410mm×44mm
Approx weight	7.8kg
Temperature	0~45℃(Operation); -20~80℃(Storage)
Voltage range	100 to 120/200 to 240V AC ±10%; 50/60Hz
Power consumption	65W

Product Information

Models	Description
ENC3281A	8Chs HDMI Input, 8 SPTS and 1 MPTS output
ENC3281B	12Chs HDMI Input,12 SPTS and 1 MPTS output
ENC3281C	16Chs HDMI Input,16 SPTS and 1 MPTS output
ENC3281D	20Chs HDMI Input,20 SPTS and 1 MPTS output
ENC3281E	24Chs HDMI Input,24SPTS or 1 MPTS output

ORDER INFORMATION

Product category	Product Model	Detail Description	Application
Broadcast HD Encoder	12*HDMI FullHD Encoder ENC3240	4 HDMI/2 ASI MUX inputs and 2ASI/1GbE RJ45 Port output per Module, Up to 3 Modules, H.264 Up to 1080p@60/59.94 / 50fps, Mpeg1 L2, SPTS/MPTS, 5Years Warranty	-Cable TV Operator -DTH, Terrestrial,Satellite Uplink -TV Studio Station
Broadcast HD Encoder	8*HDMI FullHD Encoder ENC3381	8 HDMI/ASI MUX input ASI/IP out,H.264 Up To 1080p50/59.94/60fps, MPEG 1 L2/AAC 8*SPTS/1*MPTS UDP/RTP out 3Years Warranty	-Cable TV Operator -Hotel, Campus -Upgrade Analog to Digital TV -DTH, Terrestrial, Satellite Uplink
Cable TV Modulator	Carrier-grade IP QAM modulator IPQ6250	16 QAM no-adjacent/Two GbE IP per Module, 3 Modules/48QAM per 1RU, Annex A/B/C, Multiplexer/Scrambling; 5Year Warranty	-Cable TV operator -Distribute video to QAM Network
IP to RF Modulator	16/32Ch IP QAM Modulator IPM6000	2GbE port/1024 IP inputs. 16/32*QAM(Annex A/B/C, Scrambling)/8 *DVB-T /8*ATSC/6* ISDBT RF and MPTS over UDP/RTP out	-DVB/ATSC/ISDBT/DVB-T -Upgrade Analog to Digital TV -Hotel, Campus -Cable TV operator -Breakthrough Price !
DVB-S2 to RF Transmodulator	High Density Digital TV Transmodulator MSM628	16DVB-S2 FTA/2ASI/512IP Input, 16*DVB-C (Scrambling, Annex A/B) /8 DVB-T RF/MPTS over UDP/RTP out	-Distribute video over DVB-T -Upgrade Analog to Digital TV -Hotel, Campus -Cable TV operator -Breakthrough Price !
Broadcast SD Encoder	8Chs MPEG-2/H.264 Magnun SD Encoder ENC3184	Low bitrate ; 8*AV(PAL,NTSC,SECAM)/ASI inputs; ASI/IP out; MPEG2/H.264; MPEG-1 L2/LC-AAC/ HE-AAC V1/HE-AAC	-Cable TV Operator -DTH, Terrestrial, Satellite Uplink -TV Studio Station -IPTV