

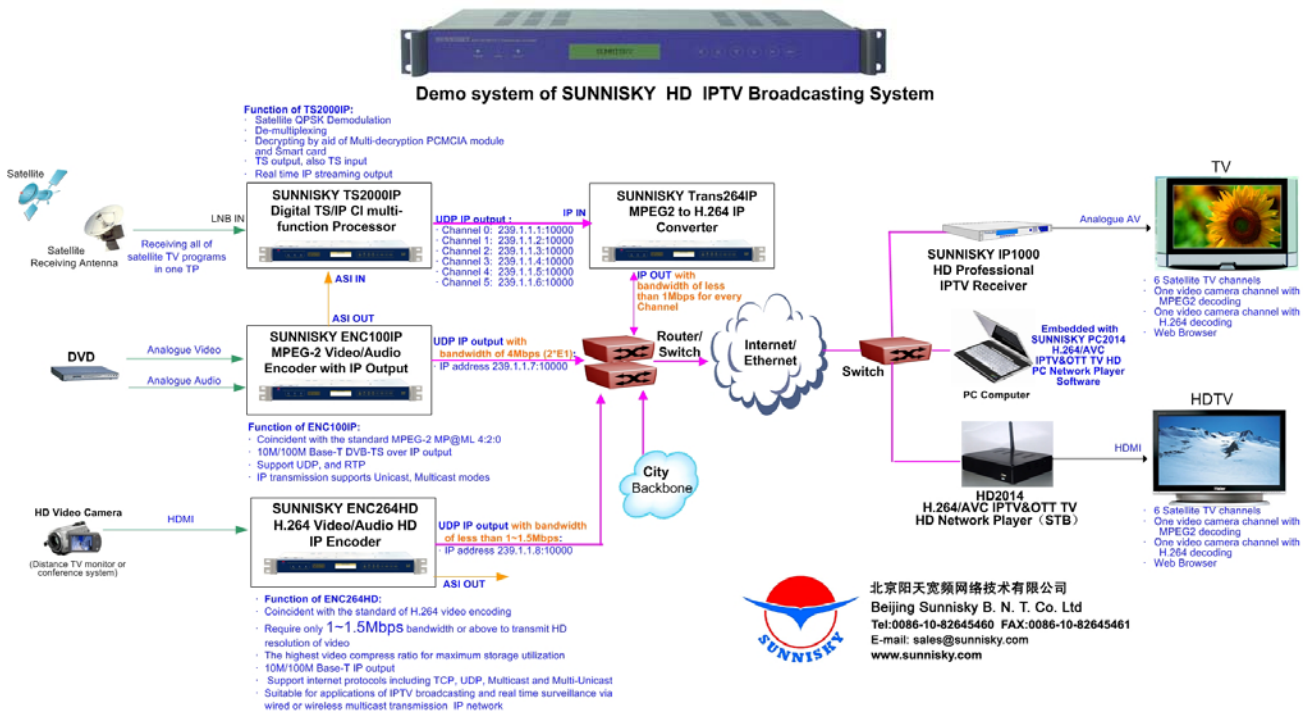
SUNNISKY ENC264HD H.264 Video / Audio HD Encoder with ASI-TS&IP output

SUNNISKY ENC264HD is one HD Encoder & Transcoder that meets the H.264 standard, it can digital sample input YPbPr signal, or HD/SD-SDI, HDMI or analog video and audio (CVBS) signal, H.264 compress and encode them to convert into IP signal and digital TS (transport stream) output with ASI-TS BNC interface at the same time. It also could realize the function to transcode one TV program from MPEG2 ASI-TS/IP signal to H.264 ASI-TS/IP signal. With advanced 4:2:0 MP@ML video encoding, it could output video compression code rate up to 0.128~20Mbps according to the bandwidth of transmission system.

Specially, by aid of its ASI-TS and IP Input interface it has cascade (simply Re-multiplexer) function, the encoded and generated TS signal by itself and the input ASI-TS or IP signal from its ASI-TS or IP input interface, which comes from the other equipment, will be multiplexed into only one MPTS TS signal output or IP output (If selecting IP input to transcode, only output ASI-TS signal) at the same time.

With 10/100BaseT Ethernet, the SUNNISKY ENC264HD supports TCP-IP remote control via Web browser or SNMP SYSTEM (Optional) and could realize PSI/SI injection via Ethernet RJ45 interface or ASI-TS input port, which make it more suitable for the demand of various applications.

So, SUNNISKY ENC264HD is the better equipment for any CADTV and IPTV HD headend system, HD Video On Demand, residential quarters or In-Hotel etc. digital television, video network application (for example, distance TV monitor or education or conference system), and any other widely broadcast and applications.



Feature

- Coincident with the standard of MPEG-4 AVC (H.264) High Profile 4.0 and Main Profile 4.0
- Supports HD/SD SDI input embedded with digital audio
- Besides HDMI, Y/Pb/Pr signal input, and Composite Video signal input
- Support CBR and VBR
- HD H.264 encoding for HD-SDI, HDMI, YPbPr input signal
- SD H.264 encoding for analogue AV or SD-SDI input signal
- ASI-TS stream signal cascade (simply Re-multiplexer) function, the encoded and generated TS signal by itself and the input ASI-TS or input IP signal which comes from the other equipment, will be multiplexed into only one MPTS ASI-TS signal output and IP output at the same time
- ASI-TS input to ASI-TS /IP Transcoding output or IP input to ASI-TS Transcoding output one TV program from MPEG-2 HD to H.264 HD/SD, or MPEG-2 SD to H.264 SD with lower delay time design

- Pre-process for low noise
- PAT and PMT automatically are generated
- Supports input PAL, SECAM and NTSC,etc. analog video system format
- Full HD 1080i/P video resolutions
- Video compression code rate 0.128~20Mbps adjustable
- Analog balance or unbalance audio interface
- One ASI input interface
- Two ASI output interfaces
- 10M/100M Base-T ASI-TS over IP output/input
- Support UDP (User Datagram protocol) , and RTP
- IP transmission supports Unicast, Multicast modes
- 188 or 204 bytes packet length is available
- MPEG-1 Layer2, MPEG-2 AAC audio transcoding, AC3 audio transcoding (Optional)
- LCD display and user friendly operation
- 10/100BaseT Ethernet for TCP-IP remote control and network management by aid of Web browser or SNMP system (Optional)
- Automatically restored after power failure
- Low power consumption

H.264 Video Compression International Standard

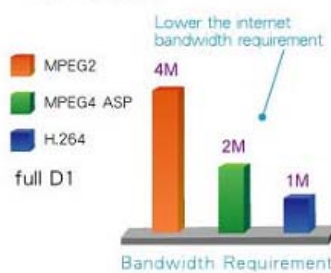
H.264/MPEG4 AVC is the latest video compression standard established by Joint Video Team (ISO&ITU) in 2004. which boasts the highest video compression ratio and smooth wireless transmission capability, It is compatible with various applications.

Standards	H.264	MPEG4	MPEG2	MJPEG
Established in/by	2004, ISO & ITU	2000, ISO	1995, ISO & ITU	1989
Standard Application	Surveillance, Computer, Communication	Surveillance & Computer	Surveillance, Computer, Communication	Surveillance only
Encoding Technology Complexity (Complexity of Encoder)	High	Middle	Middle	Low (Static-Picture Compression Technology)
Compression Ratio	102:1	50:1	30:1	7:1
Minimal Bandwidth Requirement (Full D1)	1 Mbps	2 Mbps	4 Mbps	14 Mbps

Saves Storage Space



Bandwidth



Video Quality Comparison



Specification

Video Input and Compression	
Video compression and encoding	MPEG-4 AVC (H.264) High Profile 4.0 and Main Profile 4.0
Video input	HD/SD SDI*1, HDMI*1, YPbPr*1, CVBS*1 video interface
Video format	PAL BG HIN/NTSC 4.43M 50Hz/PAL N/NTSC N/SECAM/NTSC M/PAL 4.43M 60Hz /NTSC 4.43M 60Hz/PAL M
Video compression code rate	0.5~20Mbps
Video Resolution	Support HD 1920*1080i/P, Full D1, Half D1, SIF, QSIF
Video input impedance	75Ω
Audio Input and Compression	
Audio compression and encoding	MPEG1 Layer2, MPEG-2 AAC audio transcoding, AC3 audio transcoding (Optional)

Audio input	analog balance or unbalance audio interface, digital audio (HD/SD-SDI, HDMI)
Audio sampling	32, 44.1, 48KHz
Audio code rate	32~256Kbps, 64~448Kbps (AC3)
DVB-TS over IP Output	
Connector	RJ45, 10M/100Mbps Base-T
Output bit rate	70Mbits/s (Max.)
UDP/RTP mode	Multicast or Unicast
Multicast control protocol	IGMP V2
ASI Input (TS Stream input)	
TS input ports	DVB ASI*1, BNC connector
TS input Bit Rate	<20Mbps@SPTS
Package length	188 or 204 Bytes adaptable
ASI Output (TS Stream Output)	
TS output ports	DVB ASI*2, BNC connector
TS output Bit Rate	1.5~70Mbps@MPTS
Package length	188 Bytes
SDI embedded audio output	
Connector	BNC, 75Ω
General	
Operating temperature	0°C~40°C
Power requirement	AC 90~260V, 50/60Hz, 20W
Weight	3Kg
Size	483mm×450mm×44mm

Note: All specifications are subject to change without notice.



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