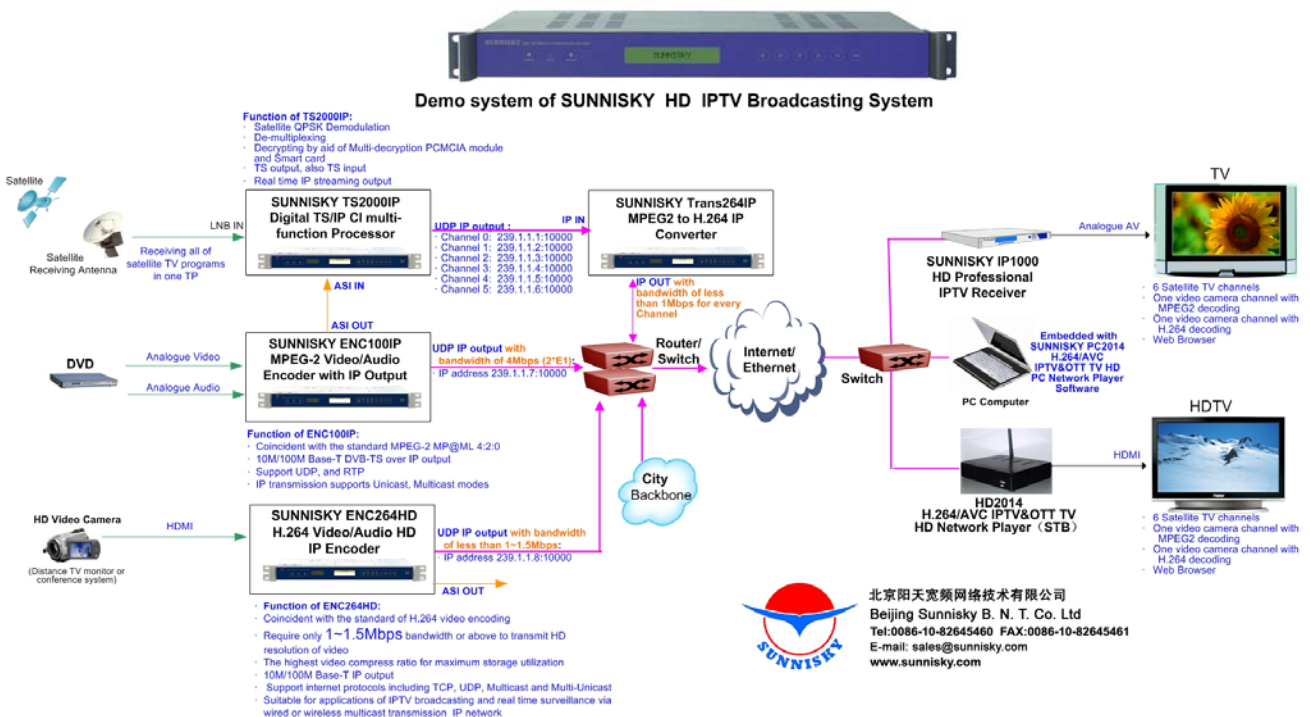# SUNNISKY ENC100IP MPEG-2 Video/Audio Encode with IP output

SUNNISKY ENC100IP is a real-time (time delay is less than 50ms) digital video/audio encoder that meets the MPEG-2 standard, it can digital sample analog video and audio signal, then compress and encode them to convert into IP signal and digital TS (transport stream) output with ASI BNC interface at the same time. With advanced 4:2:0 MP@ML video encoding, it could output video compression code rate up to 1~10Mbps according to the bandwidth of transmission system.

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

With 10/100BaseT Ethernet, the SUNNISKY ENC100IP supports TCP-IP remote control (Optional), and could realize PSI/SI injection via Ethernet RJ45 interface or ASI input port, which make it more suitable for the demand of various applications.

So, SUNNISKY ENC100IP is the better equipment for any CADTV and IPTV headend system, 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.

Demo system of SUNNISKY HD IPTV Broadcasting System

Feature

- Coincident with the standard MPEG-2 MP@ML 4:2:0
- TS stream signal cascade (simply Re-multiplexer) function, the encoded and generated TS signal by itself and the input TS signal from its ASI input interface, which comes from the other equipment, will be multiplexed into only one MPTS TS signal output and IP output at the same time
- PAT and PMT automatically are generated
- NIT and SDT could be edited and inserted by aid of its optional NMS (Network management software) system (Optional)
- SI table cycle rate is adjustable (Optional)
- Flexible GOP (group of pictures) format
- Analog S-Video and Composite Video signal input
- Supports SDI input embedded with digital audio
- Supports input PAL, SECAM and NTSC and analog video system format
- Full D1 and sub video resolutions to choose, for example, Half D1, SIF, QSIF
- Video compression code rate 1~10Mbps adjustable
- Dual track Audio (Left and Right) input

- One ASI input interface (Optional)
- One ASI output interface
- 10M/100M Base-T DVB-TS over IP output
- Support UDP (User Datagram protocol) , and RTP
- IP transmission supports Unicast, Multicast modes
- 188 or 204 bytes packet length is available
- Adopting MPEG-1 & MPEG-2 Layer I & Layer II arithmetic to compress audio signal
- Automatically restored after power failure
- LCD display and user friendly operation
- 10/100BaseT Ethernet for TCP-IP remote control and network management by aid of its NMS system (Optional)
- Low power consumption

Spefication

Video Input and Compression	
Video compression and encoding	MPEG-2 4:2:0MP@ML encoding (ISO/IEC13818-2)
Video input	CVBS*1, S-VIDEO*1, SDI*1
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	1~10Mbps, GOP frame adjustable
Video Resolution	Support Full D1, Half D1, SIF, QSIF
Video input impedance	75Ω
Audio Input and Compression	
Audio compression and encoding	MPEG-1 & MPEG-2 Layer I/II
Audio input	XLR-L, XLR-R
Audio sampling	32, 44.1, 48KHz
Audio code rate	32, 64, 128, 256, 384Kbps
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 adaptable
ASI Output (TS Stream Output)	
TS output ports	DVB ASI*1, BNC connector
TS output Bit Rate	20~70Mbps@MPTS
Package length	188 or 204 selectable
SDI embedded audio input	
Connector	BNC, 75Ω
General	
Operating temperature	0ºC~40ºC
Power requirement	AC 90~260V, 50/60Hz, 15W
Weight	3Kg
Size	483mm×450mm×44mm

Note: All specifications are subject to change without notice.