

## SUNNISKY ENC1000 Professional MPEG-2 Video / Audio Encoder

SUNNISKY ENC1000 is a real-time (time delay is less than 200ms) Broadcast-Grade professional digital video / audio encoder that meets the MPEG-2 / DVB standard, it can digital sample analog video and audio signal, or digital SDI and AES / EBU signal, then compress and encode them to convert into digital TS (transport stream) output with ASI BNC interface.

With advanced 4:2:0 MP@ML video encoding, it could output video compression code rate up to 1.5~20Mbps according to the bandwidth of transmission system.

Adopting high efficient A/D conversion, including 12-bit quantization for video signal and 24-bit quantization for audio signal, also 27MHz over-sampling for video signal and 32, 44.1, 48KHz over-sampling for audio signal, as well as using high integrated digital encoding chip involving the ability of digital noise-reduction, so it could provide you a high quality video / audio encoding service with its flexibility and best efficiency of code rate utilization, and could realize the maximum bandwidth utilization rate. By its high efficient bit rate and buffer to control, whether high or low code rate, you could obtain the perfect picture quality.

With 10/100BaseT Ethernet to TCP-IP remote control, upgrade and management, SUNNISKY ENC1000 supports one digital video SDI input and digital audio AES/EBU input, two ASI TS outputs and 4 E1 outputs, which make it more suitable for the demand of various applications.

So, SUNNISKY ENC1000 is the perfect component for any CADTV headend system, MMDS digital 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 professional applications where good picture quality and easily control are required.



### Feature

- Coincident with the standard MPEG-2 MP@ML 4:2:0
- Complies with CCIR601 video compression standard
- Adopting MPEG-2 frame / field moving estimate and DCT arithmetic
- MPEG-2 Auto-Fit frame / field (AFF) encoding technology, largely improves the efficiency to encode
- 1.5~20Mbps Video compression code rate output
- Variable GOP (group of pictures) structure including I,IP,IPB,IPBB, in order to assure to obtain good picture quality under low code rate
- The ability of DNR (digital noise-reduction) for dynamic video
- Built-in the circuit of Time Base Check
- 188 or 204 packet length is available
- Two composite video input CVBS ports and dual track (left and right) audio input XLR ports
- Supports input both of NTSC and PAL analog video system format
- Full D1 and sub video resolutions to choose, for example, Half D1, SIF, QSIF, etc.
- One digital video SDI stream input port and one digital audio AES / EBU input port (Optional)
- Supports 27MHz over-sampling, 12-bit A/D quantization for video
- Adopting MPEG1 Layer I & Layer II arithmetic to compress audio signal
- Supports 32KHz, 44.1KHz, 48KHz over-sampling, 24-bit A/D quantization for audio
- 384Kbps audio output Bit Rate
- Two ASI TS stream output ports
- Four E1 output ports, flexible for combination (Optional)
- Automatically restored after power failure
- LCD display and user friendly operation
- 10/100BaseT Ethernet for TCP-IP remote control, upgrade and management
- Low power consumption

### Specification

Video Input and Compression	
Video compression and encoding	MPEG-2 4:2:0MP@ML encoding (ISO/IEC13818-2) and

	CCIR601 standards
Frame processing	I, P, B
GOP structure	Variable or fixed, including I, IP, IPB, IPBB
Video input	CVBS*2, SDI*1, BNC, and S-VIDEO*1
Video aspect	16:9, 4:3
Video compression code rate	1.5~20Mbps
Video sampling	27MHz
Video A/D quantization	12bit
Video format	PAL or NTSC
Video Resolution	Support Full D1, Half D1, SIF, QSIF Max. 720×576 for PAL; Max. 720×480 for NTSC
Video input impedance	75Ω
<b>Audio Input and Compression</b>	
Audio compression and encoding	MPEG-1 & MPEG-2 Layer I / II
Audio input	Dual track (left and right), and digital audio AES/EBU*1, XLR
Audio sampling	32, 44.1, 48KHz
Audio A/D quantization	24bit
Audio code rate	384Kbps
<b>TS Stream Output</b>	
TS output ports	DVB ASI*2, and E1*4 (Optional), BNC
TS output Bit Rate	1.5~20Mbps adjustable
Package length	188 or 204
Warning way	LED on the front panel, and network management system by 10/100BaseT Ethernet
<b>General</b>	
Operating temperature	0°C~60°C
Power requirement	AC 220V±10%, 50Hz±2Hz, 20W
Weight	4.5Kg
Operating temperature	483mm×350mm×44mm

Note: All specifications are subject to change without notice.



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