

SUNNISKY ENC1004 4 in 1 MPEG-2 Video / Audio Compact Encoder

SUNNISKY ENC1004 is a real-time digital video/audio encoder and multiplexer that meets the MPEG-2 / DVB standard, it can digital sample 4 ways analog video and audio signal at the same time, then compress and encode them, then packing up and multiplexing them to convert into two same digital MPTS (transport stream) output with ASI BNC interface. Its outputs bit rate up to 1.5~15Mbps adjustable, and could be remote controlled, upgraded by 10/100BaseT Ethernet.

SUNNISKY ENC1004 is consisted of Video/Audio interface processing modules, Video/Audio encoding modules, program multiplexer (MUX) module, and data output interface processing module. Video/Audio interface processing module could convert input analog composite Video signal and stereo or two mono Audio signal into digital data format, then send it to the encoding module; Video encoding module uses MPEG-2 real-time encoding chipset to encode digital video data from video output interface by aid of MPEG-2 algorithm. After encoding, the Elementary Stream was sent to video packetizer, this Video PES (Packetized Elementary Stream) was sent to the program multiplexer (MUX) module; Also Audio encoding module encodes the input analog audio into audio Elementary Stream by the special audio encoding software, then send it to the audio packetizer, the Audio PES was sent to the program multiplexer (MUX) module; The program multiplexer (MUX) module has the function of program multiplexing (every ES signal into single program TS) and system multiplexing (among multi-programs TS), it will output MPTS(Multi-Program Transport Stream).

So, SUNNISKY ENC1004 is the best component for any CADTV/Terrestrial headend system, Monitoring by remote network, 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

- Integrated 4 ways Video / Audio encoding and multiplexing under 1U chassis
- 4 ways independent Video and Audio MPEG2 encoding
- 4 ways independent encoder cascade and multi-programs multiplexed MPTS stream which could output two same TS streams
- TS output Bit Rate from 1.5~15Mbps
- Coincident with the standard MPEG-2 MP@ML 4:2:0
- Adopting MPEG-2 frame / field moving estimate and DCT arithmetic
- Variable GOP (group of pictures) structure including I,IP,IPB,IPBB, in order to assure to obtain good picture quality under low code rate
- Adopting MPEG1 Layer I & Layer II arithmetic to compress audio signal
- Generate PSI/SI information, PID setup, modification of TV program's name and provider
- Automatically restored after power failure
- LCD display and user friendly operation
- 10/100BaseT Ethernet for TCP-IP remote control, upgrade and management (Optional)
- Low power consumption

Specification

Video Input and Compression	
Video compression and encoding	MPEG-2 4:2:0MP@ML encoding (ISO/IEC13818-2) standards
Frame processing	I, P, B
GOP structure	Variable or fixed, including I, IP, IPB, IPBB
Video input	Composite Video CVBS*2 per input, 75Ω (Non-balance) BNC
Video sampling	25Hz~5.75MHz

Video level	1.0V _{p-p}
Video A/D quantization	8bit
Video format	PAL or NTSC
Video Resolution	Support Full D1, Half D1, 2/3 D1, 3/4D1 Max. 720×576 for PAL; Max. 720×480 for NTSC
Audio Input and Compression	
Audio compression and encoding	MPEG-1 & MPEG-2 Layer I / II
Audio input	Stereo Audio or Dual track (left and right) per input, 600Ω BNC connector
Audio sampling	32, 44.1, 48KHz
Audio A/D quantization	16bit
Audio code rate	32~384Kbps
TS Stream Output	
TS output ports	DVB ASI*2, BNC connector
TS output Bit Rate	1.5~15Mbps adjustable
Package length	188 (or 204)
Operating and control	By the front panel and network management. The front panel: MENU, ENTER, Up, Down, Left and Right key; Network management: by aid of IEEE802.3 Ethernet with SNMP software
Warning way	LED on the front panel, and network management system by 10/100BaseT Ethernet
General	
Operating temperature	+5°C~45°C
Power requirement	AC 90V~250V, 50Hz±2Hz, 20W
Weight	6Kg
Diemension	483mm×360mm×45mm

Note: All specifications are subject to change without notice.



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