ENC 335

Low Latency, RealTime HD Video over IP Encoder/Decoder



Description

ENC335 is our brand new complete HD video over IP solution. An SD/HD video signal is received by the ENC335|Encoder, compressed, and transmitted via an IP network. The ENC335|Decoder captures data from an IP network, decompresses it and plays it back in original form as SD/HD video. The product can be configured with either a 3G-SDI or a DVI/HDMI interface, as required. This means that the video interfaces between sources and sinks can be mixed (e.g. HD-SDI camera connected to encoder with playback on HDMI monitor connected to decoder). JPEG 2000 compression allows considerable reduction of the data rate in the network without visible loss of quality. Minimal delay makes it the perfect choice for use in the broadcasting range. With the HDMI and the HD-SDI interfaces, audio signals can be embedded and de-embedded using the optional audio interface card. With the additional USB 2.0 interfaces, the modules can also be used for KVM applications. The IP network may be localized or extended to cover several regions by means of optional WAN technology. Encoders and decoders are mounted standalone in a 19" 1U rack enclosure and powered by dual power supply. ENC335 can be configured via a web browser, SNMP or through the front LCD panel.



Main Features

Modular design for various video interfaces for HDMI / DVI / VGA and 3G-SDI Optional transmission of HDCP-protected signals Separate audio plug-in to enable audio embedding and de-embedding Video distribution through multicasting Without ventilator and therefore noiseless devices SNMP v1 and v2 interface for direct activation and control of the devices by any control software



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HEADEND SOLUTIONS



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Redundant Power Supply5Video InputDedicated Management Ethernet
Interface6Video Input Loop (Monitoring)Bidirectional USB ports7Dual Video OutputRedundant Traffic ports8Expansion Slot

ENCODERS/DECODERS Compression system : Video resolution : Delay per device : Delay, total : Frame rate : Pixel clock : Colour depth : Audio channels : Audio channels : Audio coding rate : Audio coding : Network interface : Data interface : Management :

G-SDI Card Max. resolution : Plug type : Connections :

HDMI/DVI/VGA Card Version : Plug type : Connections : HDMI interface : DVI interface : VGA Interface :

Analogue Audio Card Audio frequency range : Stereo phones : Mono microphone:

Stereo line output:

Stereo line input :

Sampling Rate : RS232 interface:

-1/N

JPEG2000 max. 1920 x 1080P, min.640 x 480 \approx 1.5 frames (= 25ms@60Hz) \approx 3 frames (= 50ms@60Hz) + network delay max. 60 Hz, min. 24 Hz max. 150 MHz, min. 25 MHz 12 bit / component 8 in the same direction as video** 8 in the opposite direction to video** 192 KHz 32 bit, uncompressed 1 x 10/100/1000 BaseTX, 1 x RJ45 USB 2.0 HID, 1 plug type A, 1 plug type B Internal web server, SNMP v1, v2

3G-SDI (SMPTE424M) BNC 1 x video in (for encoders), 1 x monitor out for monitoring, 2 x video out (for decoders)

HDMI 1.3 DVI-1 for encoder, DVI-D f. decoder 1 x video in (for encoders), 1 x video out (for decoders) Intermediate connector included Directly connectable VGA input only 3

20Hz – 20kHz 30mW / 320hm, adjustable 6 ... -73dB input 3,5mm jack asymmetric, 20mV / 14k0hm, adjustable 0 ... 20dB, THD at 1kHz, -1-dB input, 0-dB gain -80dB 3,5mm stereo jack asymmetric, 1V (RMS) / 10k0hm/50pF, 90-dB SNR (Aweighted at 48kHz), THD at 1kHz, 0-dB input -85dB 3,5mm stereo jack asymmetric, 1V (RMS) / 30k0hm/10pF, adjustable 12 ... -34dB, 80-dB SNR (A-weighted at 48kHz), THD at 1kHz, -1-dB input 0-dB gain -80dB 48kHz and 96kHz RS232 RX/TX at 3,5mm jack

