

Data Sheet : H-4HD-EMS



4 HD-SDI Broadcast Encoder IPTV and ASI Out MPEG2 / H.264 / AC3/ 1080p / CC

H-4HD-EMS 4 Ch HD-SDI Program Encoder

Real Time Encoder for 4 HD-SDI to MPEG-2 or H.264 on ASI or IP with CC & AC/3

Designed as a companion encoder for the popular QAM-IP series of encoder modulators, **Thor H-4HD-EMS** series HD program encoders accept up to 4 channels of uncompressed HD-SDI digital video on 4 BNC connectors. Managed through any modern web browser, each encoder can be independently adjusted for bitrate, codecs, and video image qualities. Encoding support for the MPEG-2 codec along with Dolby AC/3 audio ensure that the programs generated by this encoder can be viewed by virtually every TV in the United States. All four program streams are multiplexed into an ASI MPTS output on mirrored BNC terminals. The ASI output can be directly connected to the ASI input on a QAM-IP digital TV channel modulator. This allows additional programs to be added to the QAM-IP output channels as additional "virtual" or "sub" channels. On a TV this will appear as channels 2.1, 2.2, etc. Each digital channel can carry as many as 20 programs, depending on resolution and encoded bit rate. In addition to the ASI output, the program streams are also available as UDP or RTP network video transport streams. This output is fully compliant with IGMP Multicast UDP MPEG-TS standards and can be easily injected into almost any IPTV system. The stream is a universally accepted format, and can easily be viewed in client applications such as VLC. In addition to network management on a dedicated NMS Ethernet port, all settings and menu configuration items can easily be viewed or adjusted from the front panel LCD and keypad. LEDs are also provided for alarm monitoring and input video detection.

Features:

- Real Time MPEG-2/H.264 Encoder with Low Latency option
- Independent control for encoding parameters on each channel
- Supports 608 & 708 Closed Captioning Standards
- Supports Dolby AC/3 audio codec for compliance with US TVs
- Designed to easily add 4 additional channels to a QAM-IP
- Stream IP Out : 1x MPTS and 4x SPTS over UDP, RTP/RTSP over (RJ45, 100M)
- Stream ASI Out; 2 x ASI mirrored Out

Model Selection:

Specifications:

Input	4x HD-SDI
Supported Output Resolutions	1080p60, 1080p59.94, 1080p50 1080i60, 1080i 59.94, 1080i50 720p60, 720p59.94, 720p50 720i60, 720i59.94, 720i50
Video Codecs	MPEG-2 HL MPEG-4 AVC/H.264
Audio Codecs	MPEG1 Layer 2 Dolby AC/3 LC-AAC (optional)
Bit Rate	0.8 - 19.0 Mbps CBR or VBR
Advanced Video Features	Input Deinterlacing, Noise Reduction, Sharpening Supports Closed Captioning 708 Standard with 608 legacy
Audio Sampling Rate	48 KHz, 24 bit resolution
Audio Bit Rate	64 - 384 Kbps Each Channel
IP Transport Stream Output	1x MPTS and 4x SPTS over UDP, RTP/RTSP our (RJ45, 100M)
ASI Transport Stream Output	2x Mirrored ASI Multiplexed Output
Managment Interface	Web Based Browser Interface Full Front Panel LCD Interface
Dimensions	480 x 455 x 45 mm
Weight	3.25 Kg
Operating Temperature	0 - 45 C
*All Specifications Subject to Change Without Notice	

DRAWING:

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HDMI HD ENCODER

