

### FEATURES

- Real-time, high-quality encoding of full motion video for video-over-IP applications
- Standards-based, H.264 algorithm (HP/MP/BP)
- Resolutions up to:  
SDI: 1080p  
VESA: 1920 x 1200
- Supports HD/SD-SDI, DVI (HDMI/RGBHV/RGsb), and NTSC/PAL Formats
- Transmit video at rates as low as 64Kbps, and up to 20Mbps
- RTSP/RTP/UDP and TS/UDP Protocols
- MISB-Compliant
- Fully configurable network interface
- Encode Latency as low as 50ms
- Stereo/dual-channel audio inputs
- MPEG-1 Layer II and ADPCM Audio Compression
- GPS/IRIG Time Input
- Serial and Ethernet User Data
- RS-232 or Ethernet port configurable
- Compact, rugged packaging, including extended temperature (-38°C to +74°C)



The Model 4480E H.264 HD/SD Video Encoder is a network appliance designed to compress High Definition (HD) and Standard Definition (SD) video (HD/SD-SDI, HDMI, RGBHV, RGsb, NTSC, PAL) for transmission over IP networks. The unit converts cameras and A/V equipment to Ethernet compatible devices for any remote monitoring application including, security, surveillance, and distance learning.

Utilizing industry-standard H.264 compression, along with flexible adjustments for video resolutions, compression parameters, and network settings, the 4480E can be configured to deliver high-quality video over any network. The unit is easily configured via the Ethernet or serial port. Audio and user-data channel multiplexing provide for single-stream transmission. The 4480E is compliant with off-the-shelf video players and most decoding hardware.

This compact, rugged unit is capable of operation in harsh environments. Extended temperature operation makes it ideal for military, law enforcement, and traffic monitoring applications. An optional 1RU, multi-unit (up to 4) rack-mount adaptor is available to ease integration.

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### VIDEO INPUT

**Ports** Two  
**Format** SMPTE/VESA/NTSC/PAL  
**Connector** BNC/DVI

### VIDEO COMPRESSION

**Algorithm** H.264  
**Format** HP/MP/BP  
**Resolutions** 1080p/720p/1080i/480i/576i  
**Frame Rate** 25/29.97/30/50/59.94/60  
**GOP Structure** Inter/Intra; Variable Size  
**Scaling** HH/HV/CIF

### STREAMING INTERFACE

**Ports** One  
**Protocol** MPEG-2 Transport Stream  
RTSP/RTP  
**Data Rate** 64Kbps to 20Mbps  
**Format** 10/100/1000 Ethernet IP  
**Configuration** DHCP or Static Address  
Selectable Ports  
Auto Sense Full/Half Duplex  
Unicast/Multicast  
**Connector** RJ-45

### USER DATA INTERFACE

**Ports** Three  
**Protocol** Clear/KLV/FLIR/Wescam  
**Format** SDI/RS-232/RS-422/Ethernet  
**Connector** RJ-45/BNC (SDI)

### CONTROL

**Ports** Two  
**Format** RS-232/Telnet/Web Browser  
**Protocol** Delta's 3-character mnemonics/HTML  
**Connector** RJ-45

### TIME INPUT/OVERLAY

**Ports** One  
**Protocol** GPS/IRIG-B (DC)  
**Connector** RJ-45

### AUDIO INPUT

**Ports** Three  
**Format** Analog/SDI/DVI  
**Channels** None, Left, Right, Stereo  
**Analog Format** Single-Ended (Line Level)  
**Analog Level** 2.8Vp-p (1Vrms)  
**Analog Impedance** 10K Ohms  
**Connector** 3.5mm

### AUDIO COMPRESSION

**Algorithms** Two  
**Format** MPEG-1 Layer II/ADPCM  
**Sample Rates** MPEG-1: 48Ksps  
ADPCM: 16Ksps  
**Bit Rates** MPEG-1: 64Kbps/96Kbps/192Kbps  
ADPCM: 64Kbps  
**Sync** Lip synchronized with video

### ENVIRONMENTAL

**Temp (Op)** -38°C to +74°C  
**Temp (Storage)** -55°C to +85°C  
**Humidity** 5%-95% RH, non-condensing

### POWER

**Volts** +9-36VDC  
**Watts** 7W  
**Connector** 2.5mm Center Positive  
(Locking Option)

### SIZE

**Chassis** 1.12"H x 4.15"W x 4.5"D  
28.4mm x 105.4mm x 114.3mm  
**Weight** 0.75lbs. (340g)



Optional 1RU Rackmount Adaptor

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