

FEATURES

TECHNICAL SPECIFICATIONS

- Real-time, high-quality encoding/decoding 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, TS/UDP, and Synchronous Serial Protocols
- Video/Audio/Data multiplexing IAW MPEG-2 Transport Standard
- MISB-Compliant
- Fully configurable network interface
- Encode/Decode Latency as low as 70ms
- Stereo/dual-channel audio inputs
- MPEG-1 Layer II and ADPCM Audio Compression
- IRIG Time Input
- Serial and Ethernet User Data
- RS-232 or Ethernet port



The Model 4480S HD/SD Video CODEC 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 or synchronous serial networks. The unit can also be configured as a decoder to convert back to composite, SDI, or DVI for display in ground stations, operations centers, or classrooms.

Utilizing industry-standard H.264 compression, along with flexible adjustments for video resolutions, compression parameters, and network settings, the 4480S 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 4480S is compliant with most off-the-shelf video players.

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

VIDEO INPUT/OUTPUT

Ports One/One
Format SDI/VESA/NTSC/PAL
Connector BNC/DVI

VIDEO COMPRESSION

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

STREAMING INTERFACE

Ports Two
Protocol MPEG-2 Transport Stream/UDP/IP
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
Protocol Synchronous Serial
Format RS-422 Clock/Data
Connector 9-Pin D-Sub

USER DATA INTERFACE

Ports Three
Protocol Clear/KLV/FLIR/Wescam
Format SDI/RS-232/RS-422/Ethernet
Serial Conn 9-pin D-Sub/RJ-45/BNC (SDI)

CONTROL

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

AUDIO INPUT/OUTPUT

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

AUDIO COMPRESSION

Algorithm Two
Format MPEG-1 Layer II/ADPCM
Sample Rates MPEG-1: 48Ksps
ADPCM: 8K/16Ksps
Bit Rates MPEG-1: 64Kbps/96Kbps/192Kbps
ADPCM: 32Kbps/64Kbps
Sync Lip synchronized with video

ENVIRONMENTAL

Temp (Op) -38°C to +78°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 1.2"H x 4.92"W x 6.5"D
Weight < 2lbs.



Optional 1RU Rackmount Adaptor

