

FEATURES

- Real-time, high-quality encoding of full motion video for video-over-IP applications
- Standards-based, H.264 algorithms (HP/MP/BP)
- Resolutions up to 1080p
- Supports HD/SD-SDI Formats
- Transmit video at rates as low as 64Kbps, up to 10Mbps
- RTP/UDP and TS/UDP Protocols
- Video/Audio/Data multiplexing IAW MPEG-2 Transport Standard
- MISB-Compliant
- Fully configurable network interface
- Latency <100ms
- Stereo/dual-channel audio inputs
- MPEG-1 Layer II Audio Compression
- Ethernet User Data
- IRIG-B Overlay
- Remote Set-up via Switch/Control Module
- Multi-channel Packaging



The Model VHE963 HD/SD-SDI Video Encoder Module is part of Delta's 9600 Series Video Processing Chassis. The module is a network appliance designed to compress HD/SD-SDI video for transmission over IP networks. The VHE963 provides a practical, cost-effective means to add High Definition (HD) and legacy Standard Definition (SD) sensors to new or existing IP networks. The module can be combined with other 9600 series modules in the video processing chassis to support video-over-IP applications with diverse video sources. Delta's Video Processing Chassis supports encoding and decoding of HD/SD-SDI, Composite, and DVI/HDMI video formats for 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 VHE963 can be configured to deliver high-quality video over any network. The unit is easily configured via the Ethernet port. Audio and user-data channel multiplexing provide for single-stream transmission. The VHE963 is compliant with most off-the-shelf video players.

A division of Delta Information Systems, Inc.

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MODEL VHE963

9600 SERIES: HD/SD-SDI VIDEO ENCODER MODULE

VIDEO INPUT

Ports One
Format HD/SD-SDI
Connector BNC

VIDEO COMPRESSION

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

TRANSPORT STREAM

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

USER DATA INTERFACE

Ports One
Protocol Clear/KLV
Format Ethernet

CONTROL

Ports One
Format TCP/IP
Protocol Delta's 3-character mnemonics/HTML

AUDIO INPUT

Ports One
Channels None, Left, Right, Stereo
Format Balanced (Line Level)
Levels 2.8Vp-p (1Vrms)
Impedance 10K Ohms
Connector 3.5mm

AUDIO COMPRESSION

Algorithm One
Format MPEG-1 Layer I/II
Sample Rates 8K/16Ksps
Sync Lip synchronized with video

ENVIRONMENTAL

Temp (Op) -20°C to +60°C
Temp (Storage) -55°C to +85°C
Humidity 5%-95% RH, non-condensing

POWER

Volts +12VDC
Watts 7W

SIZE

Chassis Compatible with 9600 VPC (16-Slot) & 9680 VPC (8-Slot)



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