

FEATURES

- Real-time streaming of up to two HD and SD video channels
- H.264/MPEG-4 AVC (Part 10)
- HD-SDI /DVB Compliant I/O
- 1080p/1080i/720p/480i/p/VESA Compatible; 1-60fps
- MPEG-2 compliant TS multiplexing
- Synchronous serial or Ethernet Interfaces
- Fully configurable network interface
- Data Rates from 1Mbps to 20Mbps
- <100ms Latency
- Stereo/dual-channel audio inputs
- MPEG-1 Layer I/II Audio Compression
- Metadata Support in compliance (optional KLV Encoding)
- Front Panel, RS-232 or Ethernet port configurable
- 1RU Package
- +10°C to +71°C Operation



The Model 6850 provides flexibility in streaming and distribution of HD/SD video. Utilizing MPEG-4 AVC (H.264) encoding, the 6850 provides real-time encoding for transmission via DVB or IP.

The advanced H.264 compression algorithm provides high quality video encoding at relatively low bit rates, for both HD and SD. Combined with flexible, user-configurable interfaces and the ability to process two channels simultaneously, the 6850 packs the power of two encoders in a single package. The unit is built around an advanced, high-speed ASIC, working in conjunction with a DSP, to facilitate the data moving and processing required for HD video compression.

The 6850 is compliant with the MPEG-2 Transport layer (ISO-13818-01) for video, audio, and data multiplexing and transmission. The unit provides stereo audio compression in accordance with MPEG-1/Layer II compression algorithm. Low-latency performance makes the 6850 ideal for live-event applications. The transport stream can be applied to another 6850 or any compliant hardware or software decoder.

The decoder function allows the integrator to provide an encode/decode solution using the same equipment at both ends. The decoder is a full-featured companion to the encoder, providing simultaneous decoding of two channels, including audio.

VIDEO INPUT

Ports Four
Format HD-SDI/DVB/xVGA/YPrPb/CVBS
Connector BNC/DVI/BNC/BNC

VIDEO OUTPUT

Ports Four
Format HD-SDI/xVGA/YPrPb/CVBS
Connector BNC/DVI/BNC/BNC

VIDEO COMPRESSION

Algorithm H.264 /MPEG-4 AVC (Part 10)
Format H.264 Baseline/Main Profile up to L4.2
Resolutions 1080p/1080i/720p/480i/p/VESA
Frame Rate 1-60fps
GOP Structure Inter/Intra; Variable Size incl. Infinite

TRANSPORT STREAM

Ports Three
Protocol ISO/IEC 13818-1
MPEG-2 Transport Stream
Video/Audio/Data
Data Rate 1Mbps to 20Mbps
Format 10/100 Ethernet IP
Configuration DHCP or Static Address
Selectable Ports
RTP/UDP/IP
RTSP
Auto Sense Full/Half Duplex
Unicast/Multicast
Connector RJ-45
Format DVB-ASI
Connector BNC
Format RS-422
Configuration Clock/Data
Connector DB-25

AUDIO INPUT/OUTPUT

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

AUDIO COMPRESSION

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

METADATA INTERFACE

Ports One
Protocol KLV/Clear
Format RS-232
Connector DB-9S

LATENCY

Encoder/Decoder 100ms

CONTROL

Ports Three
Format Front Panel/RS-232/TCP/IP
Protocol Delta 's 3-character mnemonics

POWER

Input 96-240VAC
Watts 20W
Connector IEC-

SIZE

Chassis 1RU 19 " x 12 " x 1.75 "

