

### 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 )
- MISB/STANAG Compliant
- 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-13818-1) 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** Standard IEC-320

### SIZE

**Chassis** 1RU 19 " x 12 " x 1.75 "

