edje 2000 *Real Time Streaming MPEG Encoder*

Supporting IP platforms, the edje-2000 provides the amenities of encoders costing five times its price and measuring four times its size.

edje The edje 2000 is a real time MPEG 2 encoder designed specifically for MPEG 2 standard definition encoding at low bit rates. It's compact size makes it easy to deploy and maintain. With uses ranging from Distance Learning to Electronic News Gathering, the edje 2000 gives you broadcast picture quality while maintaining a low per channel cost.

As part of Adtec's Enterprise IPTV Solution, the edje 2000 can provide local encoding for managed IP delivery to Adtec decoders or IP delivery to set top boxes.
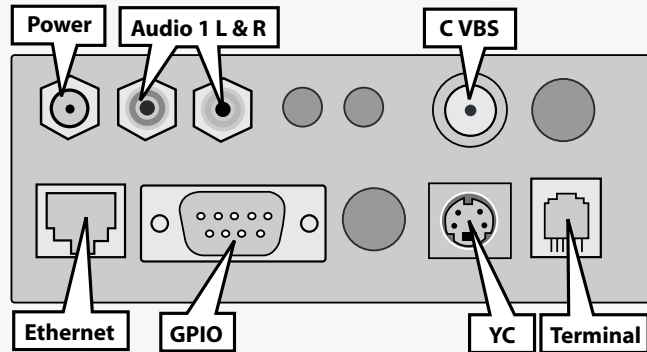
ADTEC Digital

applications

- **Local Encoding for IPTV Distribution**

- **Business Television**

- **Surveillance and Security**

- **High-Quality Videoconferencing**

- **Distance Learning**

- **Remote Tele-Medicine**

benefits

- **IPTV Multicast Output :** Directly output MPEG-2 IP Multicasts and eliminate the need for additional IP streaming equipment.

- **High Picture Quality at low MPEG-2 bitrates:** Produce true broadcast quality encoding with very stable jitter at low bitrates for an efficient and cost-effective transmission.

- **Advanced filtering and video resolutions:** Improve the quality of your images with high performance Analog to Digital conversion. Horizontal and vertical filtering produces broadcast quality images from non-ideal sources.

- **Small form factor:** Maximize your solution without concern for space, power consumption and heat dissipation. The compact size and maintenance needs of the edje 2000 allows for a very dense solution while occupying minimal rack space.

- **Very low cost per channel:** Minimize your expense. The edje 2000 provides a cost-effective solution for cost sensitive applications.

availability

Edje 2000 Real Time Streaming MPEG Encoder with edjeController application.

Power Audio 1 L & R C VBS

Ethernet GPIO YC Terminal

specifications

Video Inputs
- Composite (BNC)
- YC (4 Pin Mini-Din)
- Analog to digital conversion 9 bit with scaling
- Horizontal and Vertical 16 tap filters
- SDI (BNC) (Option)
- (Chroma filtering and full scaling on SDI input)

VBI Support
- Line 21-Closed Captioning DVS053 Rev 6
- Adtec line shift Closed Captions

Video Encoding Profiles
- MPEG 1 SIF ISO 11172-2
- MPEG 2 AFF ISO13818 MP@ML

Video Encoder Filters
- Temporal
- Spatial Vertically and Horizontally

Video bit rates
- 300K-5 Mbs MPEG 1
- 300K-8 Mbs MPEG 2

Video Resolutions
- MPEG 1
  96x96 to 352x240 NTSC and 352x288 PAL
- MPEG 2
  96x96 to 720x480 NTSC and 720x576 PAL

Note: Non-standard Vertical resolutions may adversely affect STB decoders, most PC decoders have more flexibility when scaling.

- NTSC resolution examples:
  720x480 (Full D1 NTSC)
  544x480
  528x480
  352x480 (Half D1 NTSC)
  352x240 (MPEG 2 at MPEG 1 resolution)

- PAL resolutions examples:
  720x576 (Full D1 PAL)
  544x576
  352x576 (Half D1 PAL)
  352x288 (MPEG 2 at MPEG 1 resolution)

Multiplexing Formats
- Program (System-MPEG 1)
- Transport

Audio Inputs
- 24 Bit A-D Conversion
- Two channels Un-balanced (RCAx2)
- Four channels Un-balanced (RCAx2) (Option)

Audio Encoding Profiles
- MPEG 1 Layer 1 ISO11172-3
- MPEG 1 Layer 2 ISO 13818-3

Audio Sampling
- 16, 22.05, 24, 32, 44.1 and 48 KHz

Audio Bit Rates
- 64-384 Kbs

Ethernet
- 10/100 (RJ-45)
- Half Duplex
- Full Duplex
- Auto Negotiate

Ethernet Protocols
- Telnet
- FTP
- UDP (layer 3) IP Stream Multicast
- SDP and SAP support
- EMT
- FCMP (IP File Multicast)

MPEG Table Compliance
- PAT and PMT

DVB Table Compliance
- SDT and NIT

PMT User defined Program Identifier (PID)
- PMT
- Video (PCR on video)
- Audio

Serial Communications
- RS232 (38400-115,200K, 8, 1 N)

Parallel Control and Tally
- 4 Data Inputs (User definable)
- 2 Data Outputs (User definable)

Power
- 12 VDC less than 24 watts (2.5 MM locking)

Physical
- 4" wide, 10" deep, 1.70" tall
- Up to 4 encoders can be mounted on 1 RU shelf

Environmental
- Passive cooling (No Fan)
- 0 to 90 Degrees Fahrenheit
- Less than 70% RH
- Non-Condensing

Note: Specifications subject to change without written notice