

edje<sup>®</sup> 5110

### MPEG 2 Standard Definition Encoder

The edge 5110-RM is a high performance MPEG 2 Standard Definition encoder supporting the most demanding distribution applications and can easily be upgraded to support encrypted or free to air SD 4:2:2 contribution platforms. It's video performance is exceptional, ranging from the lowest 4:2:0 distribution rates all the up to 50 Mbs 4:2:2 for contribution. Offering dual stream on-board audio encoding, the edge-5110 audio CODEC support includes dual Dolby Digital and MPEG 1 Layer 2 encoding plus rock solid dual channel Dolby E/5.1 passthrough. Optional 4:2:2 and BISS 1/E encryption software upgrades make the edge-5110-RM the perfect SD Contribution encoder. User interfaces include an easy-to-use front panel interface and on-board Web application server for configuration and monitoring.



## features

- **Flexible Transport Options:**

The edge-5110 offers three ASI and one GIGE output, AES3 Digital, SDI and Analog Audio Inputs. It provides a stable, accurate MPEG 2 Transport Stream compliant with global DVB standards.

- **IPTV Multicast Output:**

Directly output MPEG-2 IP Multicast and eliminate the need for additional IP streaming equipment.

- **Highest quality MPEG 2 SD:**

When it comes to the best on-air look, edge-5110 delivers with excellent quality Standard Definition video encoding.

- **Rapid Configuration:**

The edge-5110 responds rapidly and reliably to the desires of the operator. Rapidly configure and control the device using the integrated front panel keypad and LCD or on-board Web application.

- **Monitor:**

Monitoring the encoder is easy and straight-forward using the built-in web browser interface, front panel LED and LCD and event logging.

## Options & Accessories

**BISS Encryption:** BISS 1 and BISS E Encryption

**M2SD422-KEY:** Enables 4:2:2 Chroma Type Encoding

## Related Products

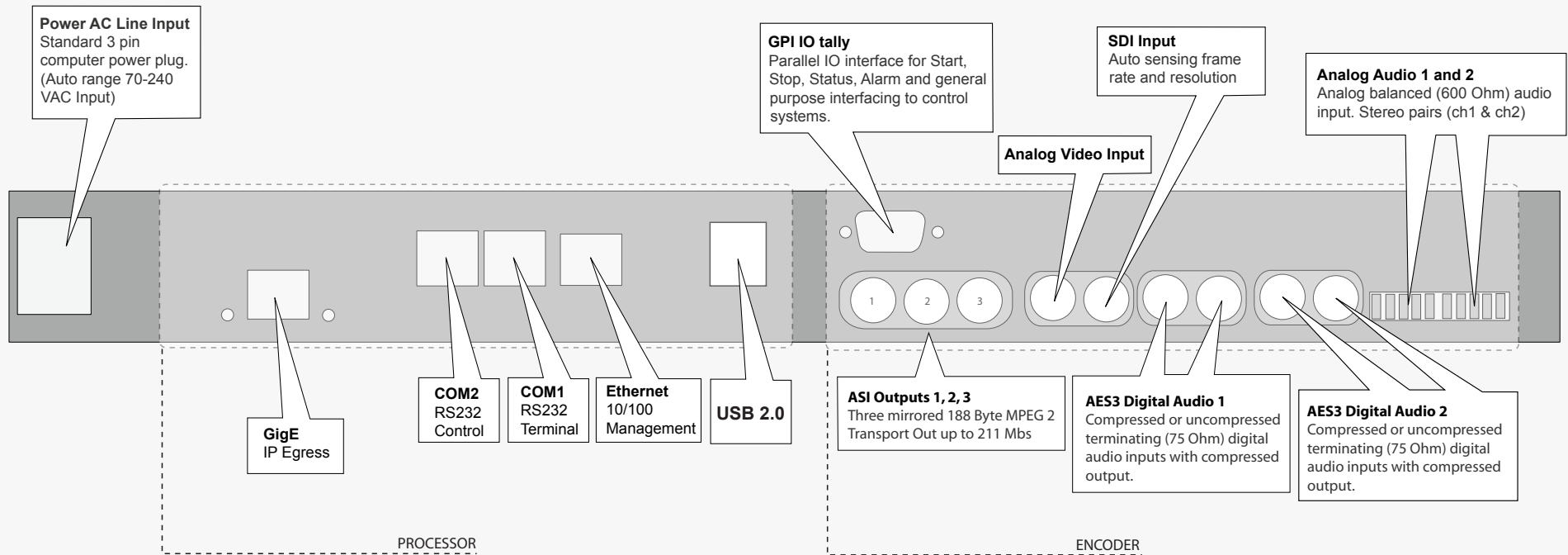
**DTA-3050:**

Digital turn around router for transporting MPEG 2 via ASI and IP sources to ASI, SMPTE-310 and IP outputs

**Soloist-HD Pro:**

Broadcast quality high definition MPEG 2 and MPEG 4 AVC decoder for broadcast applications





**Encoder Video Profiles**

MPEG 2 SD Profile 1:

Adaptive Field Frame (AFF) ISO13818-2 MP@ML

MPEG 2 SD Profile 2:

AFF ISO13818-2 422P@ML (optional)

**Video Encoding Data Rates**

MPEG 2 MP@ML SD

1 Mbs-15 Mbs - NTSC and PAL

MPEG 2 422P@ML SD (Optional)

1 Mbs-50 Mbs - NTSC and PAL

**Video Frame Formats**

480i, 576i, 480p, 567p

**Video Encode Resolutions**

Horizontal Resolutions

720, 704, 640, 544, 528, 480, 352

Vertical Resolutions

480, 576

**Video Processing**

Encoder Filters

Temporal & Spatial (Median)

Time Base Corrector (TBC) on SDI inputs

Chroma filtering and scaling for NTSC/PAL

**Encoder Video Input**

Composite (BNC)

SDI

- Video (SMPTE 259M)

- Embedded audio (SMPTE 272M)

**Encoder Audio Profiles**

Dolby Digital 2.0 (AC3)

- Dual Stream Encoders Included

MPEG1 Layer 2

- Dual Stream Encoders Included

Dolby E, Dolby 5.1 & Dolby 2.0 (AC3) passthrough

**Encoder Audio Input**

2 - Analog Audio Stereo Balanced Inputs

2 - AES3 digital audio input uncompressed (PCM) or compressed bitstream passthrough from external Dolby 2.0, 5.1 or Dolby E encoders (BNC - 75 Ohm). Includes compressed bit stream output.

1 SDI embedded input

- 4 pairs

- Video per SMPTE 272M

- One user selectable group.

User-defined analog and digital level control with sample rate conversion on all inputs

**Transport Outputs**

3 mirrored ASI Outputs

- ISO13818-1 MPEG 2 Transport Stream (188 byte only)

1 GIGE

- MPEG 2 Transport (UDP or RTP)

\*ASI and IP operate concurrently

**Transport User Data**

SMPTE 334 VANC data extraction for IEEE 708/608.

Concurrent

User defined VANC Line 7-32 data extraction supported

Teletext: (NABTS) DVS053 Rev 6

**Conditional Access**

BISS 1/E (optional)

**Table Compliance**

MPEG Program Specific Information (PSI) Tables:  
PAT  
PMT

DVB Service Information (SI) Tables (Static)  
SDT  
NIT  
TDT/TOT  
SCTE 35 Splice Point injection

ATSC A65B (PSIP) Tables (Static)  
MGT (TVCT, STT, RRT, EIT)

*For dynamic DVB-SI use Adtec's DTA-3050 and DTVmanage SI Server*

*For dynamic A65B PSIP use Adtec's DTA-3051 and DTVGuide web service*

**Physical**

1 RU chassis (19in x 14in x 1.75in)  
13 pounds

**Power**

Start-up: 72 Watts

Operational: 60 Watts

**User Interface Requirements**

Supported Browsers

IE 7 and higher

Firefox 3.0.0 and higher

Safari 3.0.0 and higher

Opera 9.0 and higher