

# Edje 2100 Specifications



## Front Panel

Mode, Select, Enter, Escape, Up, Down, Left, Right Tactile Raised keypad  
20 character by 2 row Blue Translucent LCD  
Power, Alarm, ASI, IP, Ethernet

## Video Standards

NTSC

*Color Frequency: 3,579,545 Hz*

PAL (B/G/I)

*Color Frequency: 4,433,618.75 Hz*

PAL N

*Color Frequency: 3,582,056.25 Hz*

PAL-M

*Color Frequency: 3,575,611.49 Hz*

## Analog Video Inputs

Composite (BNC)

YC (4 Pin Mini-Din)

Analog to digital conversion 9 bit with scaling

Horizontal and Vertical 16 tap filters

## Digital (D1) Video Input (Optional)

Serial Digital Input per SMTE 259M (BNC)

(Chroma filtering and full scaling on SDI input)

## Pictures Structure

I, IP, IBP, GOP from 1 to 64

## Video Sampling

4:2:0

## VBI Support

Line 21-Closed Captioning DVS053 Rev 6

V-Chip DVS157

Teletext (NABTS) DVS053 Rev 6

Neilson Source Identification (SID) DVS053

Automated Measurement of Lineups (AMOL) DVS053

# Edje 2100 Specifications

## Video Encoding Profiles

MPEG 1 SIF ISO 11172-2

MPEG 2 AFF ISO13818 [MP@ML](mailto:MP@ML)

## Video Encoder Filters

Temporal

Spatial Vertically and Horizontally

Temporal and Horizontal Spatial can be concurrent

## Video bit rates

300K-8 Mbs

## Video Resolutions

Any Macro Block (16x16) combination Horizontal and Vertical

Note: Non-standard Vertical resolutions may adversely effect

STB decoders, most PC decoders have more flexibility when scaling.

Horizontal NTSC examples:

720x480 (Full D1 NTSC)

544x480

528x480

512x480

496x480

480x480

352x480 (Half D1 NTSC) etc

Vertical NTSC example:

720x 464

Horizontal and Vertical example:

528x464 etc.

PAL resolutions examples:

720x576 (FullD1 PAL)

720x560

544x544 etc

## Multiplexing Formats

Program

Transport

## Analog Audio Inputs

Two channels Balanced (RST)

Frequency Response 20-20K Hz

Input Level -20 to 14 dB

A-D Conversion 24 Bit

Four channel Balanced (2nd pair DSP Option)

Automatic Level Control (ALC)

# Edje 2100 Specifications

## Digital Audio Inputs

AES-EBU Embedded on SDI Per SMPTE 272M (BNC)

AES-EBU discrete via 110 Ohm balanced (RST)

Four channels each

Compressed Dolby 5.1 Pass Thru (RST)

## Digital Audio Out

AES-EBU discrete via 110 Ohm balanced (RST)

Compressed or Uncompressed Output

(Compressed output ideal for AC-3 monitoring)

## MPEG Audio Encoding Profiles

MPEG 1 Layer 1 ISO11172-3

64-640 Kbs (Layer 1)

MPEG1 Layer 2 ISO 11172-3

64-384 Kbs (Layer 2)

Mono, Stereo, Joint Stereo

Supports up to 4 channels

## Uncompressed Audio Profile

PCM (AES uncompressed per SMPTE 302M)

1.503 Mbs per stereo PCM only

(16 Bit at 48 KHz only)

## Dolby (AC-3) Encoding Profile

AC-3 (Mono, Stereo 2 Channel L-R)

AC-3 Surround (4 Channel LF-RF, LR-RR)

Up to 640 Kbs

Supports up to 4 channels

For Dolby 5.1, use pass thru mode with external encoder

## Audio Sampling (MPEG and Dolby)

16, 22.05, 24, 32, 44.1 and 48 KHz

## Ethernet

10/100 (RJ-45)

Half Duplex

Full Duplex

Auto Negotiate

## Ethernet Protocols

Telnet

FTP

UDP (layer 3) IP Stream Multicast and control

EMT

FCMP (IP File Multicast)

# Edje 2100 Specifications

## DTV Outputs

DVB-ASI (BNCx2)

For SMPTE 310, Adtec's edje 3000 Multiplexer is required

IP (UDP multicast)

## MPEG Table Compliance

PAT and PMT

## DVB Table Compliance (PSI)

SDT and NIT

## ATSC Table Compliance

## User defined Program Identifier (PID)

Video (PCR)

Audio

PMT

## 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 40 watts (2.5 MM locking)

## Physical

8.5" wide, 10" deep, 1.70" tall

## Environmental

Passive cooling (No Fan)

0 to 90 Degrees Fahrenheit

Less than 70% RH

Non-Condensing