

Products



Digital Audio Encoder with Dolby Digital AC-3 Audio





Edie-2200

Overview

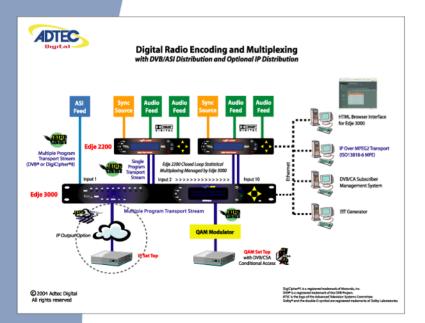
The edje-2200 is a real time MPEG 2 digital audio encoder designed specifically for digital television (DTV) systems. The edje-2200 is ideal for delivering digital radio channels into cable, terrestrial and IP distribution systems.

Applications

- · Air DTH
- · FM Local Encoding
- · Terrestrial DTV (ATSC and DVB-T)
- · MPEG 2 Transport over IP

Feature Highlight

- · Real time MPEG 2 MP@ML audio encoding
- · Supports two Dolby digital stereo channels
- · Two DVB-ASI output streams
- · Intelligent audio control and leveling
- · High quality at low bit rates
- · Stable, reliable, and simple operation
- · Density of two encoders per rack unit



Benefits

> High Quality MPEG 2 Audio Encoding

Each edje-2200 encodes two channels of high quality MPEG 2 compressed Dolby digital or MPEG Layer 2 (Musicam) audio. The edje-2200 delivers stunning audio at low data rates.

> Dolby Digital AC-3 Audio Compression

The edje-2200 supports two Dolby digital stereos. Channel modes supported include 1/0, 2/0 and 5.1 pass through. Alternatively, the edje-2200-M supports two channels of MPEG Layer 2 (Musicam) audio encoding.

> Scalable Delivery of Multiple Audio Channels

Multiple audio channels can be added as desired by integrating Adtec's edje-3000 DVB-ASI multiplexers with edje-2200 encoders. The edje-3000 can multiplex single program transport streams from up to ten edje-2200 and/or re-multiplex up to ten multiple program transport streams received other edje-3000s, enabling effective delivery of vast numbers of audio channels.

> Stable MPEG 2 Transport Stream

The edje-2200 provides a stable accurate MPEG 2 Transport Stream compliant with the global DVB standard. Very stable jitter, rock solid sync, MPEG and DVB tables all delivered via the industry standard ASI interface.

> Absolute Control

Controlling and configuring the edje-2200 is simple. With its integrated front panel keypad and LCD, Serial, Terminal or remote Ethernet, the edje-2200 responds rapidly and reliably to the desires of the operator.

> Reliable Operation

Adtec has delivered over thirty thousand MPEG devices globally. The edje-2200 continues the trend of providing relability, low cost, and high performance.

Availability

The edje-2200 is available in a steel case (8.5" x 1.75" x 10.5"). Models are available to support either Dolby digital or MPEG Layer 2 (Musicam) audio encoding.

edje-2200 Digital Radio Encoder

www.adtecinc.com

Specifications

Front Panel 8 – Button Tactile Raised keypad Mode, Select, Enter, Escape, Up, Down, Left, Right Blue Translucent LCD (20 character by 2 row) Front panel Host LED's Power, Alarm, ASI, IP, Ethernet

Sync Inputs

4 Pin Mini-Din

Multiplexing Formats Program

Transport

Audio Inputs 24 Bit A-D Conversion Primary Stereo Balanced (5 Pin RST) SAP Balanced (Option 5 Pin RST)

AES-EBU (5 Pin RST - 110 Ohm) Dolby AC-3 encoding only, MPEG audio not supported via AES

Audio Encoding Profiles
Dolby AC-3

MPEG 1 Layer 1 ISO11172-3 MPEG1 Layer 2 ISO 13818-3

Audio Delay
Adjustable PTS delay up to 700 milliseconds

<u>Audio Sampling</u> 16, 22.05, 24, 32, 44.1 and 48 KHz

Audio Bit Rates 64-640 Kbs 64-384 Kbs for MPEG

Up to 640 Kbs for AC-3

Ethernet 10/100 (RJ-45)

Half Duplex

Full Duplex

Auto Negotiate

Ethernet Protocols

Telnet

(Adtec encrypted UDP control protocol)

UDP (layer 3) IP Stream Multicast

EMT

FCMP (IP File Multicast)

UDP/SPTS

SAP-SDP

<u>IP Encapsulation</u> ISO13818-6 Multi-Protocol Encapsulation (MPE)

Up to 8 Mbps
MPE services output via ASI

Ad Insertion Cueing SCTE 35

DTV DVB-ASI (BNC x 2)

MPEG Table Compliance

PAT. PMT

All PID's user definable

DVB Table Compliance

All PID's user definable

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

8.5" wide, 10.5" deep, 1.70" tall

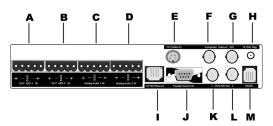
Environmental Active cooling (Fan)
0 to 90 Degrees Fahrenheit Less than 70% RH Non-Condensing

Note: Specifications subject to change without written notice



Edie 2200 Front Panel LED Status

Led	Status
Power	Green - On
Alarm	Green – No Alarms
	Yellow – Minor
	Red – Major (No Video In)
ASI	Green – MDE ASI and active
	Yellow – MDE ASI no output (same as alarm RED)
	Off – MDE IP
IP	Green – MDE IP and active
	Yellow – MDE IP no output (same as alarm RED)
	Off – MDE ASI
Ethernet	Green – Link
	Yellow Flash – Link and Busy
	Off – No connect



Edje 2200 Rear Panel I/O

Label	Description
Α	AES-EBU Digital Audio IO Number 1
В	AES-EBU Digital Audio IO Number 2
С	Analog Audio Input Number 1
D	Analog Audio Input Number 2
E	Sync Input (4-Pin Mini-Din)
F	Sync Input (BNC)
G	N/A
Н	Regulated 12 Volts DC Input
Ī	Ethernet (10/100)
J	Parallel I/O
K	DVB-ASI Output Number 1
L	DVB-ASI Output Number 2
M	Terminal RS232 Connector