modules that can be optionally installed directly on the rear plate.

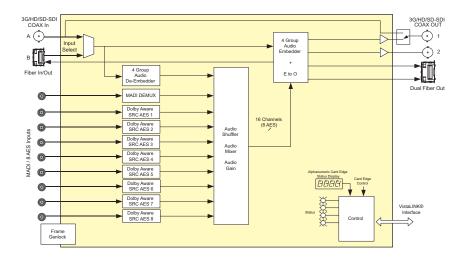
The 7821AE8-3G-AESD-F supports 24-bit AES audio embedding for 3G/HD-SDI and 20-bit audio embedding into SD-SDI with fully compliant sample rate converters that automatically can be disabled when embedding Dolby streams.

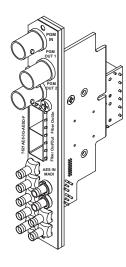
Additionally, a full audio channel router is available for channel mixing and/or shuffling. The rear plate comes equipped with DIN connectors for direct AES connections, eliminating the use of a breakout cable. This module also supports a native MADI input which can facilitate up to 64 mono channels of which 16 channels can be selected for embedding. MADI support can be enabled with the +MADI option.

VistaLINK® enables control and configuration capabilities via Simple Network Management Protocol (SNMP). This offers the flexibility to manage the module status monitoring and configuration locally or remotely.

▶ Features & Benefits

- Audio embedding into a 3G/HD/SD-SDI video signal
- · Automatic detection of input video standard
- Optional dual SFP modules supporting an optical input and up to 3 optical outputs
- · By-pass relay protection for main program output
- Supports 24-bit AES audio embedding for 3G/HD-SDI and 20-bit AES audio embedding for SD-SDI
- · Flexible audio channel routing for channel shuffling and mixing
- Dolby compliant with automatic sample rate conversion disable on AES inputs to permit seamless Dolby embedding
- Dolby[™] Metadata insertion via serial interface
- MADI input
- Card edge LEDs indicate video and audio signal presence and module fault
- VistaLINK® capable for remote monitoring and control via SNMP (using VistaLINK® PRO) when installed with 7700FC Frame Controller





▶Specifications

Serial Video Input: Number of Inputs:

SMPTE 424M (3Gb/s) 1080p Standard:

SMPTE 292M (1.5Gb/s), 1080i, 1035i, 720p SMPTE 259M (270Mb/s) 525i, 625i

BNC per IEC 61169-8 Annex A

Connector:

Input Equalization:

Automatic to 80m @ 3Gb/s with 3G:

Belden 1694A or equivalent cable HD-SDI: Automatic to 115m @ 1.5Gb/s with Belden 1694A or equivalent cable

SD-SDI Automatic to 300m @ 270Mb/s with Belden 1694A or equivalent cable

Return Loss:

> 10dB up to 3.0GHz 3G: HD: > 13dB up to 1.5GHz SD > 15dB up to 270MHz

Optical Video Inputs:

Number of Inputs: 1 via upper SFP module

Connector: Female LC/PC

Operating Wavelength:

1270nm to 1610nm

Maximum Input Power -1dBm Standard:

Optical Sensitivity

Standard:

-20dBm (with 3G pathalogical) -23dBm (with 3G color bars)

Optical Video Outputs:

Number of Outputs: 1 via upper SFP module

2 via lower SFP module Female I C/PC

Connector: Wavelengths

1310nm FP: -1dBm ±1dBm

Serial Video Outputs:

Number of Outputs

2 (1 output bypass relay protected) Standard: Same as input SMPTE 299M - 24-bit 48kHz synchronous

Embedded Audio:

SMPTE 272M - 20-bit BNC per IEC 61169-8 Annex A Connectors

Wideband Jitter: < 0.20 UI HD

< 0.30 UI 3G

Electrical: Voltage:

AES Audio Inputs

Number of Inputs:

Standard:

AES

MADI

Connector:

Resolution:

Impedance:

Signal Level:

Sampling Rate:

+12V DC 15W

Complies with FCC Part 15, EMI/RFI:

8 AES inputs

24 hits

8 mini DIN connectors

1 mini DIN connector

75Ω unbalanced

SMPTE 276M, single-ended AES

48kHz synchronous or asynchronous

sample rate converter is disabled)

1V p-p ±0.1V @ termination load

(48kHz synchronous AES required when

Class A EU EMC Directive

Physical (Number of Slots per frame):

350FR: 7700FR-C: 7800FR:

▶Ordering Information

7821AE8-3G-AESD-F

3G/HD/SD-SDI 8 AES Audio Embedder with Fiber I/O

(SFP modules to be order accessories)

Ordering Options Rear plate must be specified at time of order

E.g. Model +3RU

+MADI Support for serial multi-channel audio digital interface as per (AES10-2003)

SFPTR-13 SFP Transceiver, 1310nm, standard sensitivity receiver, supports rates to 3Gb/s SFP3T13-2

Dual SFP Transmitter, supports rates to 3Gb/s

Rear Plate Suffix: +3RU

3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe

Enclosures: 350FR

3RU Portable Multiframe which holds up to 7 single slot modules 7800FR 3RU Multiframe which holds up to 15 single slot modules 7700FR-C 3RU Multiframe which holds up to 15 single slot modules



The Complete Solution Provider