

Model 520AE8-HD



The 520AE8-HD Audio Embedder embeds 8 stereo AES channels into 4 groups as defined by SMPTE 299M in a 1.5 Gb/s serial HDTV or as defined by SMPTE 272M in a 270Mb/s serial SDTV video signal.

This device also handles the Dolby E Metadata. Metadata maybe input instead of the last AES channel and optionally embedded in VANC for downstream devices.

VistaLINK™ enables control and configuration capabilities via Simple Network Management Protocol (SNMP). This offers the flexibility to manage the module status monitoring and configuration from SNMP enabled control systems such as Evertz VistaLINK™ PRO locally or remotely.

Features

- Fast locking AES receivers
- Headphone jack with monitoring stereo channel
- Card edge display for status & audio channel peak levels bargraphs
- Dolby-aware SRC (sample rate converters)
- Flexible audio channel router (16 x 16)

Controls:

- Audio channel selection
- Embedded group enable/disable

Inputs:

- SMPTE 292M - (1.5Gb/s serial digital), or SMPTE 259M
- 8 Channel AES (unbalanced)
- Dolby metadata (RS422/485)

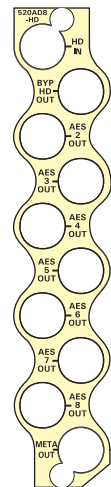
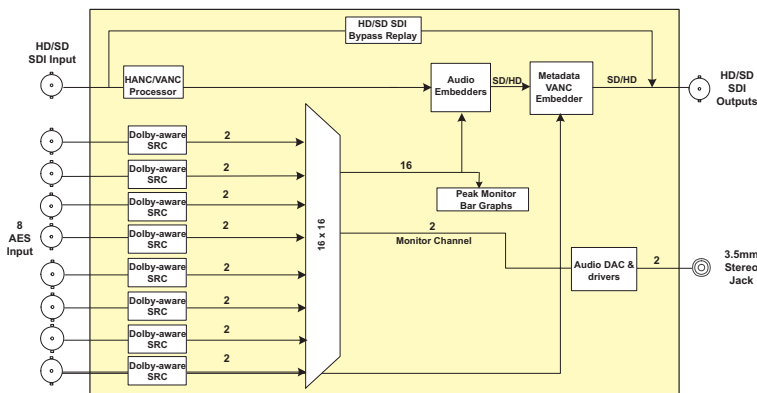
Outputs:

- Program output bypass relay protected
- 1 processed HD output

Card Edge LED's:

- Module Status
- Video Signal presence
- AES input presence/errors
- VistaLINK™ -enabled for remote monitoring via SNMP (using VistaLINK™ PRO) when installed in 500FR frame with 500FC VistaLINK™ Frame Controller

Model 520AE8-HD Block Diagram



Specifications

Serial Video Input:

Standard: SMPTE 292M, (1080i/60, 1080i/59.94, 1080i/50, 1080p/30(sF), 1080p/29.97(sF), 1080p/25(sF), 1080/24(sF), 1080/23.98(sF), 720p/60, 720p/59.94, 1035i/60, 1035i/59.94
SMPTE 259M-C (270 Mb/s) 525 or 625 line component
Connector: BNC per IEC 60169-8 Amendment 2
Equalization: Automatic 100m @ 1.5Gb/s with Belden 1694A (or equivalent), 25m with bypass relay installed

Processed Serial Video Output:

Standard: Same as input or user controlled
Number of Outputs: 1
Connector: BNC per IEC 60169-8 Amendment 2
Signal Level: 800mV nominal
DC Offset: 0V ±0.5V
Rise and Fall Time: Per standard
Overshoot: <10% of amplitude
Wide Band Jitter: <0.2 UI

AES Input:

Standard: SMPTE 276M
Number of Inputs: 8
Connector: BNC per IEC 60169-8 Amendment 2
Input Level: 0.1 to 2.5 Vp-p
Input Impedance: 75Ω
Return Loss: >25dB 100kHz to 6MHz
Equalization: Automatic to 1000m with Belden 1694A (or equivalent) @ 48kHz AES signal
Sample Rate: 48kHz ± 100ppm

Metadata Input/Output:

Type: DOLBY E Metadata
Connector: 1 BNC per IEC 60169-8 Amendment 2
Baud Rate: 115,200 baud

System Performance:

Embedding Latency: 600μs nominal

Electrical:

Voltage: +12V DC
Power: 10 Watts
EMI/RFI: Complies with FCC Part 15 Class A, EU EMC Directive

Physical:

Number of Slots: 1

Ordering Information:

520AE8-HD HD/SD Audio Embedder with 8 unbalanced AES inputs (4 audio groups)

Enclosures:

500FR Compact High Density Distribution Frame
S501FR Standalone enclosure

exponent