520AD8-HD

HD/SD Audio De-embedder with 8 Unbalanced AES Outputs

The 520AD8-HD Audio De-embedder extracts embedded audio from all 4 groups as defined by SMPTE 299M from a 1.5Gb/s serial HD or as defined by SMPTE 272M from a 270Mb/s serial SD video signal. Up to 16 selected channels may be de-embedded and directed to 8 AES outputs.

This device also handles the Dolby-E™ Metadata. Metadata is optionally de-embedded from VANC and can be provided as an output for downstream devices (i.e. Dolby-E™ or Dolby AC3 Encoders etc.).

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.

The 520AD8-HD is housed in the 3RU 500FR ***exponent*** frame that will hold up to 16 modules.

Features & Benefits

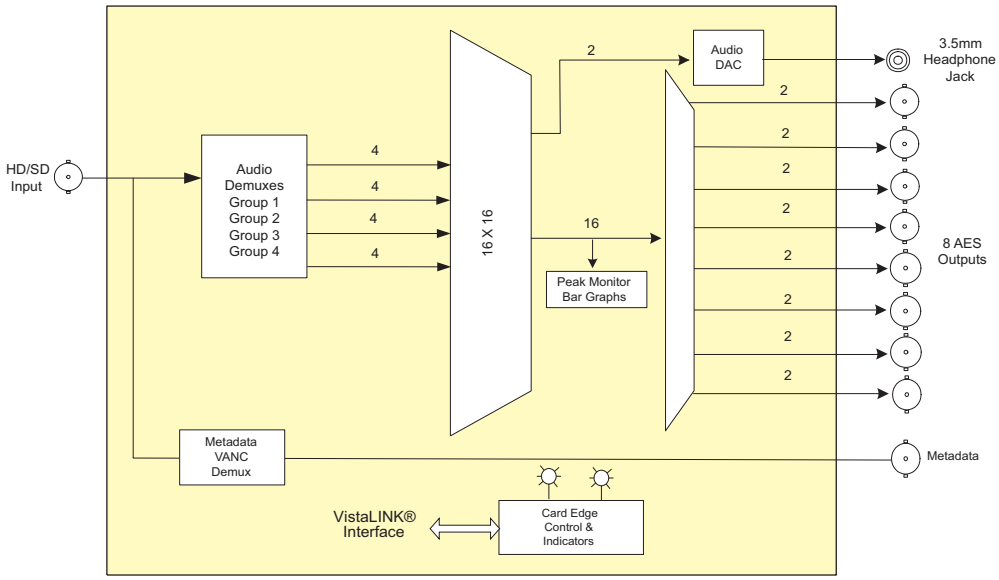
- Flexible de-embedded audio channels router (16x16)
- Headphone jack with monitoring stereo channel
- Card edge display for status & audio channel peak levels bargraphs
- VANC decode and output of Dolby™ Metadata
- VistaLINK® -capable for remote monitoring via SNMP (using VistaLINK® PRO) when installed in 500FR frame with 500FC VistaLINK® Frame Controller

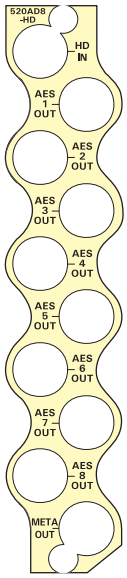
Inputs
- SMPTE 292M (1.5Gb/s serial digital), or SMPTE 259M

Outputs
- 1 BNC Dolby™ Metadata output (RS422/485)
- 8 AES de-embedded outputs

Controls
- Audio channel routing selection

Card Edge LEDs
- Module Status
- Video Signal presence
- Audio group presence/errors





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/23.98, 720p/24, 720p/50, 720p/60, 720p/59.94, 1035i/60, 1035i/59.94 SMPTE 259M-C (270Mb/s) 525 or 625 line component
Connector:	BNC per IEC 61169-8 Annex A
Equalization:	Automatic 100m @ 1.5Gb/s with Belden 1694 (or equivalent)
Metadata:	SMPTE RP2020

Metadata Output:

Type:	Dolby-E™ Metadata SMPTE RDD6
Connector:	*1 BNC per IEC 61169-8 Annex A (*BNC to DB9 dongles are provided)
Baud Rate:	115,200 baud

AES Audio Output:

Standard:	SMPTE 276M, single ended AES
Number of Outputs:	8
Connector:	BNC per IEC 61169-8 Annex A
Sample Rate:	48kHz
Impedance:	75Ω
Resolution:	Up to 24-bit

System Performance:

De-embedding Latency:	600µs nominal (SD) 200µs nominal (HD)

Electrical:

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

Physical:

Number of Slots:	1

Ordering Information

520AD8-HD	HD/SD-SDI Audio De-embedder with 8 unbalanced AES outputs

Enclosures	***exponent***
500FR	Compact High Density Distribution Frame
S501FR	Standalone enclosure