

# 520AD8-HD

## HD/SD-SDI 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 AC-3 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

### Controls

- Audio channel routing selection

### Card Edge LEDs

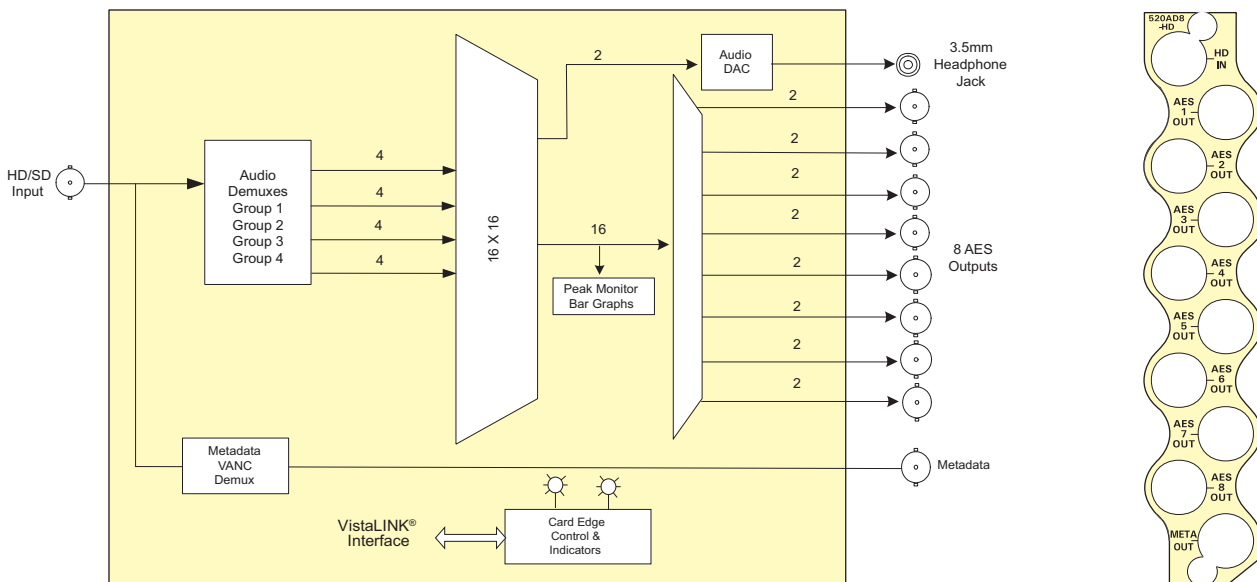
- Module Status
- Video Signal presence
- Audio group presence/errors

### Inputs

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

### Outputs

- 1 BNC Dolby Metadata output (RS-422/485)
- 8 AES de-embedded outputs



### ► Specifications

#### Serial Video Input:

Standard: SMPTE 292M, (1080i/60, 1080i/59.94, 1080i/50, 1080p/30 (sF), 1080p/29.97 (sF), 1080p/25 (sF), 1080p/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 1694A (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**  
500FR  
S501FR

**exponent**  
Compact High Density Distribution Frame  
Standalone enclosure

#### Accessories:

500FC VistaLINK® Frame Controller  
CP-2116E-H Remote Control Panel  
CP-2232E Remote Control Panel