

7721AD4-HD, 7721AD-A4-HD, 7721AD4-B-HD

HD-SDI AES Audio De-embedder



The 7721AD-HD series Audio De-Embedders extract embedded audio as specified by SMPTE 299M from a 1.5Gb/s serial HDTV video signal. The companion 7721AE4-HD Audio Embedder facilitates audio multiplexing at the source. The 7721AD-HD is available in 3 different versions.

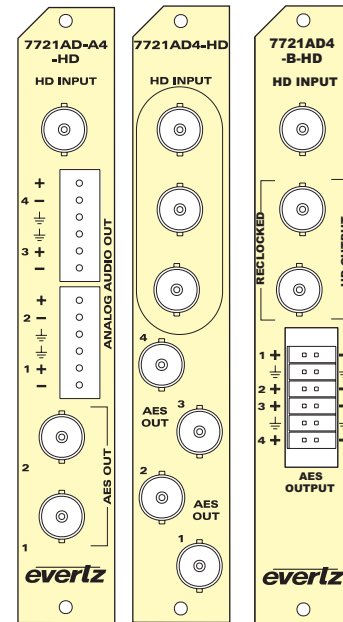
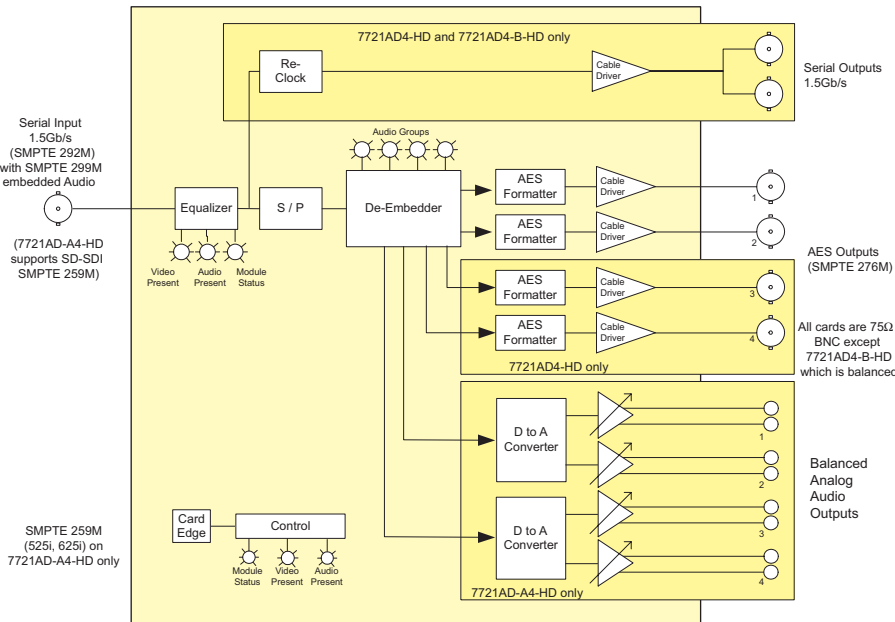
SMPTE 299M allows for up to four groups (4 channels/group) to be embedded within a serial digital signal. The 7721AD4-HD can de-embed two audio groups onto four unbalanced AES outputs. The 7721AD-A4-HD can de-embed one audio group onto two unbalanced AES outputs and 4 balanced analog audio outputs.

►Features & Benefits

- Automatic detection of video input format
- Card edge LEDs indicating module status, video presence, selected audio group data is present
- LED indication for the presence of each of the 4 audio groups within the input video
- Audio group selection via card edge DIP switches
- 7721AD-A4-HD has independent volume controls for each of the audio

- VistaLINK® capable for remote monitoring, control and configuration capabilities via SNMP; using VistaLINK® PRO, CP-2116E or CP-2232E Control Panels. VistaLINK® is available when modules are used with the 3RU 7800FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame

Model	Audio Outputs		Video 1.5Gb/s Re-clocked Outputs
	AES	Analog	
7721AD4-HD (HD only)	4	--	2
7721AD-A4-HD (HD/SD)	2	4	--
7721AD4-B-HD (HD only)	4	--	--



►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), 1080i/23.98(sF), 720p/60, 720p/59.94, 1035i/60, 1035i/59.94 SMPTE 259M (525i, 625i) on (7721AD-A4-HD) only

Connector: BNC per IEC 61169-8 Annex A

Equalization: Automatic 100m @ 1.5Gb/s with Belden 1694A (or equivalent)

Return Loss: > 10dB up to 1.5Gb/s

Reclocked Serial Video Output (7721AD4-HD and 7721AD4-B-HD only):

Standard: Same as input

Number of Outputs: 2

Connector: BNC per IEC 61169-8 Annex A

Signal Level: 800mV nominal

DC Offset: 0V ±0.5V

Rise and Fall Time: 200ps nominal

Overshoot: < 10% of amplitude

Return Loss: > 10dB up to 1.5Gb/s

Wide Band Jitter: < 0.2 UI

AES Audio Output:

Standard: SMPTE 276M, single-ended synchronous or asynchronous AES

Number of Outputs: 4 on 7721AD4-HD & 7721AD4-B-HD, 2 on 7721AD-A4-HD

Connector: BNC per IEC 61169-8 Annex A

Sampling Rate: 48kHz

Impedance: 75Ω

Resolution: 24-bit

Analog Audio Output (7721AD-A4-HD only):

Number of Outputs: 4

Type: Balanced analog audio

Connector: Two 6-pin terminal strip

Output Impedance: 66Ω balanced

Sampling Frequency: 48kHz

Signal Level: 0dB FS => 8 to 24dBu into 10kΩ load (user settable), 0dB FS => 8 to 22dBu into 600Ω load (user settable)

Frequency Response: < ±0.1dB (20Hz to 20kHz)

Dynamic Range: 24-bit

THD+N: > 90dB RMS @ 1kHz with 24dBu output

Crosstalk: > 90dB RMS (20Hz to 20kHz)

Electrical:

Voltage: +12V DC

Power: 8W

EMI/RFI: Complies with FCC Part 15, Class A EU EMC Directive

Physical (number of slots):

350FR: 1

7700FR-C: 1

7800FR: 1

►Ordering Information

7721AD-A4-HD	HD/SD-SDI Audio De-embedder with 2 unbalanced AES and 4 analog audio outputs
7721AD4-HD	HD Audio De-embedder with 4 unbalanced AES outputs (2 audio groups)
7721AD4-B-HD	HD Audio De-embedder with 4 balanced AES outputs (2 audio groups)

Ordering Options Rear Plate must be specified at time of order
Eg: Model +3RU

Rear Plate Suffix

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

+1RU 1RU Rear Plate for use with 7701FR Multiframe

+SA Standalone Enclosure Rear Plate

Accessories

7700FC

CP-2116E-H

CP-2232E

VistaLINK® Frame Controller

Remote Control Panel

Remote Control Panel

Enclosures

350FR

7700FR-C

7800FR

7701FR

S7701FR

3RU Portable Multiframe which holds up to 7 single slot modules

3RU Multiframe which holds up to 15 single slot modules

3RU Multiframe which holds up to 15 single slot modules

1RU Multiframe which holds up to 3 single or dual slot modules

Standalone enclosure