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The 500AMDA-AESU is a five output reclocking and auto equalizing AES Audio DAC & Distribution Amplifier for unbalanced 75Ω AES signals. It is also a high quality 24-bit audio DAC. The 500AMDA-AESU automatically equalizes up to 1000m of Belden 1694A coax and provides reclocked outputs. The 500AMDA-AESU also converts AES/EBU digital signal to 2 balanced analog audio outputs. The input sample rates supported are 32kHz, 44.1kHz and 48kHz. Analog

Level control is provided via a card edge toggle. The full scale digital signal can be calibrated to produce analog peak levels ranging from 12dBu to 24.8dBu with 0.1dB resolution. The 500AMDA-AESU card edge LED indicators provide quick and accurate assessment of the incoming signal integrity. Balanced analog audio is provided via a terminal strip adapter.

The 500AMDA-AESU is housed in the 3RU 500FR exponent frame that will hold up to 16 modules.

▶ Features & Benefits

- 24-bit, high-quality D/A conversion
- 44.1kHz, 32kHz and 48kHz sampling rates supported
- 0dBFS programmable from 12dBu to 24.8dBu
- Support for 2 channels of balanced analog audio (1 AES/EBU)

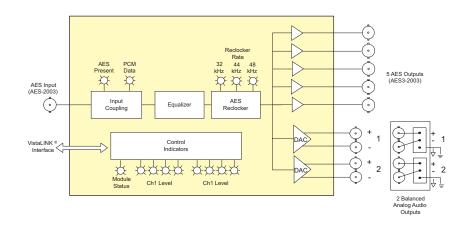
audio output levels may be set individually from the front panel.

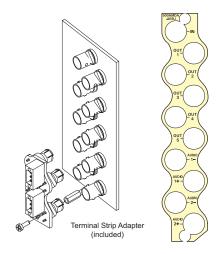
- AES3-2003 standard for AES audio on 75Ω coax
- EQ and reclock provide extended cable length compensation (> 1000m)

- Five 75Ω coax outputs
- 2 balanced analog audio outputs

Card Edge LEDs

- · Module Health Status
- · AES signal present
- Detected AES sample rate
- · PCM versus non-PCM data
- · Audio level bargraph with ballistics
- VistaLINK® -capable for remote monitoring via SNMP (using VistaLINK® PRO) when installed in 500FR frame with 500FC VistaLINK® Frame Controller





▶Specifications

AES Audio Input:

Number of Inputs: Standard: AES3-2003, unbalanced AES BNC per IEC 61169-8 Annex A Connectors

Signal Level: 0.1 to 2.5V p-p > 1000m @ 48kHz with 1V p-p drive Equalization:

and Belden 1694A or equivalent coax

Resolution: 24 bits

32, 44.1, 48 kHz; ±100 ppm Sample Rate: Input Impedance: 75Ω, AC-coupled > 25dB, 100kHz to 6.0MHz Return Loss:

AC-coupled (for 60Hz ground loop current protection)

AES Audio Outputs: Number of Outputs: 5

BNC Grounding:

Standard: AES3-2003, unbalanced AES BNC per IEC 61169-8 Annex A Connectors

Sample Rate: Same as input Impedance: 750 unbalanced

Return Loss: > 25dB, 100kHz to 6.0MHz Analog Audio Outputs:

Number of Outputs: 2

Balanced analog audio Type:

Two 3-pin removable terminal strips on BNC adapter panel

Output Impedance: 66Ω

Output Load: 600Ω or high impedance ($10k\Omega$) 0dB FS \Rightarrow +12 to +24.8dBu into 10kΩ Signal Level:

load (user settable) DC Offset: < ±30mV

Freq. Response: < ±0.05dB (20Hz to 20kHz) 24 bits

Dynamic Range: < -100dB RMS @ 1kHz, with 24dBu THD+N:

output > 110dB RMS (20Hz to 20kHz), "A" SNR:

weighted

Inter-Channel Phase Error < ±1° (20Hz to 20kHz)

Crosstalk Isolation: > 110dB RMS (20Hz to 20kHz),

unweighted

Digital to Analog Delay:

0.95ms

Electrical:

Voltage: +12V DC 6W Power:

EMI/RFI: Complies with FCC Part 15 Class A

EU EMC Directive

Physical:

Number of slots:

▶Ordering Information

Unbalanced AES Audio DAC & Distribution Amplifier (5 AES out & 2

balanced analog out)

Enclosures S501FR

exponent

Compact High Density Distribution Frame

Standalone enclosure