

Balanced AES Audio Distribution Amplifier

Model 500DA-AESB

The 500DA-AESB is a four output reclocking and auto equalizing DA for unbalanced 110 Ω AES signals. The DA automatically equalizes up to 300m of Belden 1800B cable and provides reclocked outputs with sampling frequencies of 32kHz, 44.1kHz, 48kHz and 96kHz.

The 500DA-AESB card edge LED indicators provide quick and accurate assessment of the incoming signal integrity.

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

Features

- Data reclocking provides jitter reduction

Inputs:

- AES3-1992 standard for AES audio on 110 Ω twisted pair cable
- EQ and reclock provide extended cable length compensation (>300m)
- Transformer coupled 110 Ω balanced input

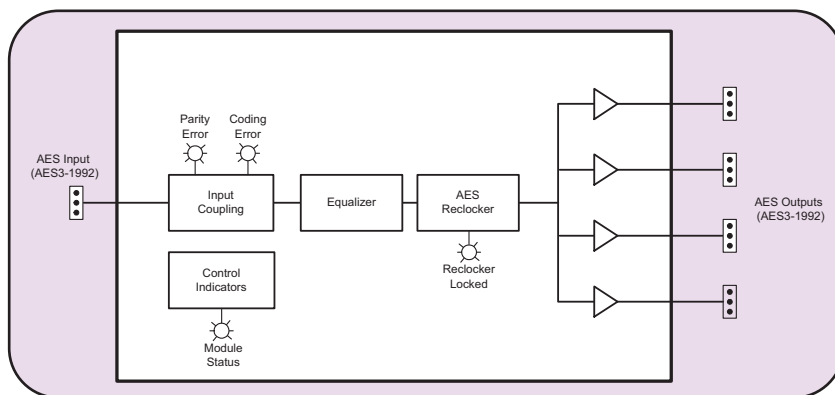
Outputs:

- Four 110 Ω balanced

Card Edge LEDs:

- Module Health Status
- Error LED indication for input PLL out of lock, parity error or biphasic coding error
- Reclocked locked

500DA-AESB Block Diagram



Specifications

AES Input:

Standard:	AES3-1992
Number of Inputs:	1
Connector:	3 pin removable terminal strip
Input Level:	2 to 7V p-p
Coupling:	Transformer
Input Impedance:	110 Ω
Return Loss:	>14dB 100kHz to 6MHz
Equalization:	Automatic to 300m with Belden 1800B (or equivalent) @ 48kHz AES signal
Sampling Frequency:	32kHz, 44.1kHz, 48kHz and 96kHz

AES Output:

Number of Outputs:	4 Balanced AES reclocked
Connector:	3 pin removable terminal strip (screwdown adapter module included)
Output Level:	5V p-p
Output Impedance:	110 Ω
Return Loss:	>30dB 100kHz to 6MHz

Physical:

Number of Slots:	1
------------------	---

Electrical:

Voltage:	+12VDC
Power:	5 Watts
EMI/RFI:	Complies with FCC Part 15 Class A EU EMC Directive

Ordering Information:

500DA-AESB

Balanced AES Audio Distribution Amplifier (1x4)

Enclosure:

500FR
S501FR

exponent

Compact High Density Distribution Frame
Standalone enclosure

