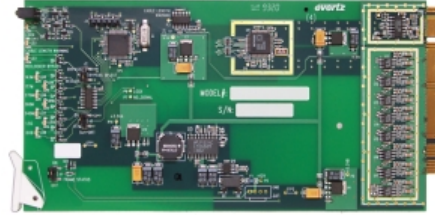


500DA-AESU *exponent*

AES Audio Distribution Amplifier



The 500DA-AESU is a nine output reclocking and auto equalizing DA for unbalanced 75 Ω AES signals. The DA will automatically equalize AES signals on Belden 1694A coax to 1500m. The DA will reclock data with sampling frequencies of 32kHz, 44.1kHz, 48kHz and 96kHz.

The 500DA-AESU card edge LED indicators provide quick and accurate assessment of the incoming signal integrity. The 500DA-AESU also provides a contact closure output that can be configured using on-board jumpers to assert when an input error condition exists.

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

Features

- SMPTE 276M standard for AES audio on 75 Ω coax
- Transformer coupled 75 Ω unbalanced input
- Data reclocking provides jitter reduction
- Automatic equalization
- EQ and reclock provide extended cable length compensation (>1500m)
- Nine 75 Ω coax outputs
- Error LED indication for input PLL out of lock, parity error or biphas coding error
- External indication of input error condition using contact closure output

Specifications

AES Input:	
Standard:	SMPTE 276M
Number of Inputs:	1
Connector:	BNC per IEC 169-8
Input Level:	1 Vp-p
Coupling:	Transformer
Input Impedance:	75 Ω
Return Loss:	> 25 dB 100 kHz to 6 MHz
Equalization:	Automatic to 1500m with Belden 1694A (or equivalent) @ 48 kHz AES signal
Sampling Frequency:	32 kHz, 44.1 kHz, 48 kHz, and 96 kHz

AES Output:	
Number of Outputs:	9 Unbalanced AES
Connector:	BNC per IEC 169-8
Output Level:	1 Vp-p
Output Impedance:	75 Ω
Return Loss:	> 25 dB 100 kHz to 6 MHz

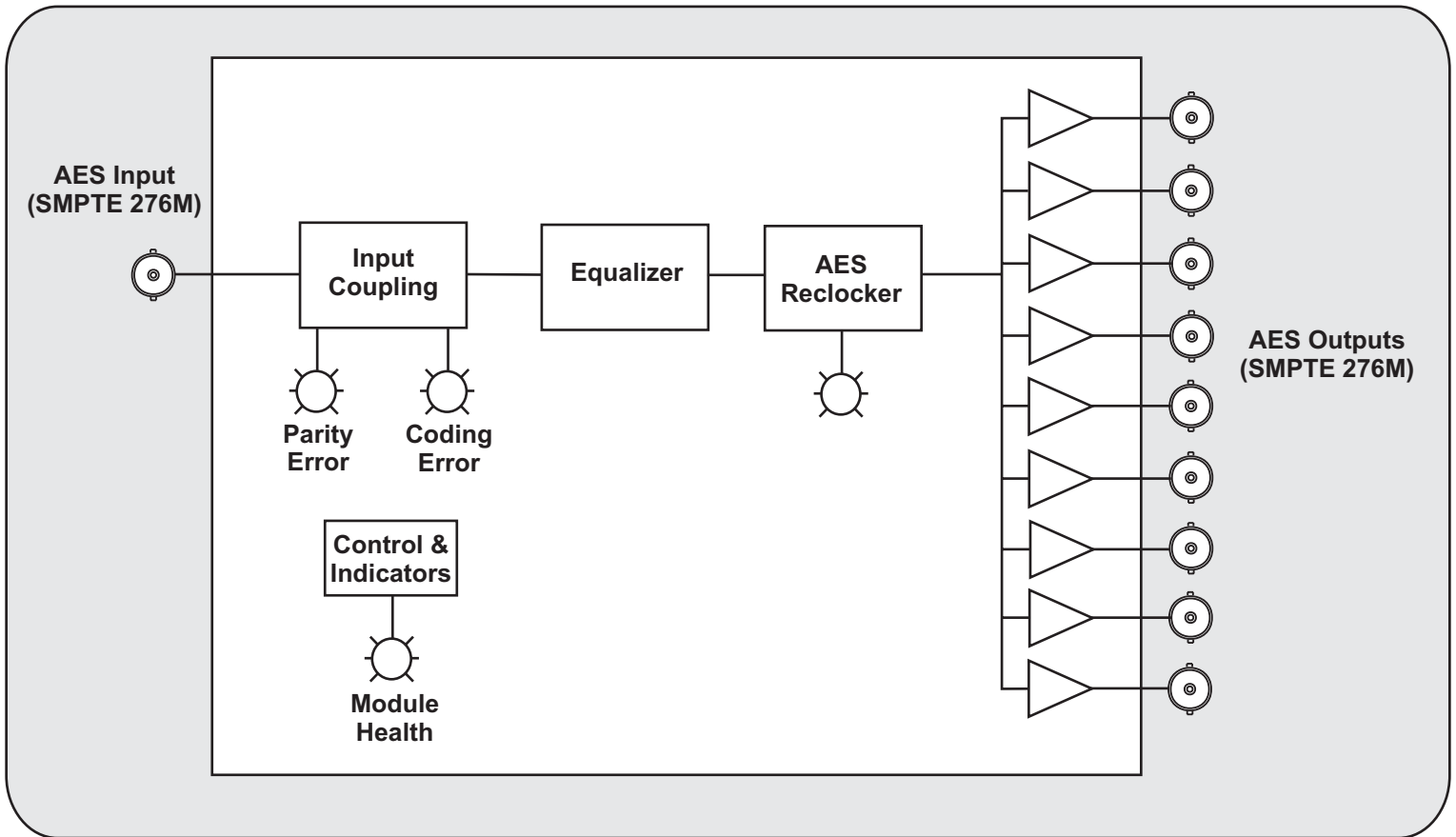
Electrical:	
Voltage:	+12VDC
Power:	5 Watts
EMI/RFI:	Complies with FCC Part 15 Class A, EU EMC Directive

Physical	
Number of Slots:	1

Ordering Information	
500DA-AESU:	AES Audio Distribution Amplifier

Enclosures	
500FR:	<i>exponent</i> Compact High Density Distribution Frame

500DA-AESU Block Diagram



500DA-AESU Rear Panel

