



The 500DA-AESU-L is an eight output reclocking and auto equalizing DA for unbalanced 75Ω AES with passive loop thru designed for use within the Evertz® high density analog looping frame (500FR-L-A). The DA automatically equalizes up to 1500m of Belden 1694A coax and provides reclocked outputs 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. When installed within the 500FR-L-A, a passive loop output is available to enable cascading of multiple DA cards. The passive loop is implemented on the 500FR-

L-A backplane. As a result, a failure of any single card or the removal of any single card does not affect any other cards being used for signal distribution. Up to 16, 500DA-AESU-L cards may be cascaded error free in the 500FR-L-A frame.

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

### ►Features & Benefits

- Data reclocking provides jitter reduction

#### Inputs:

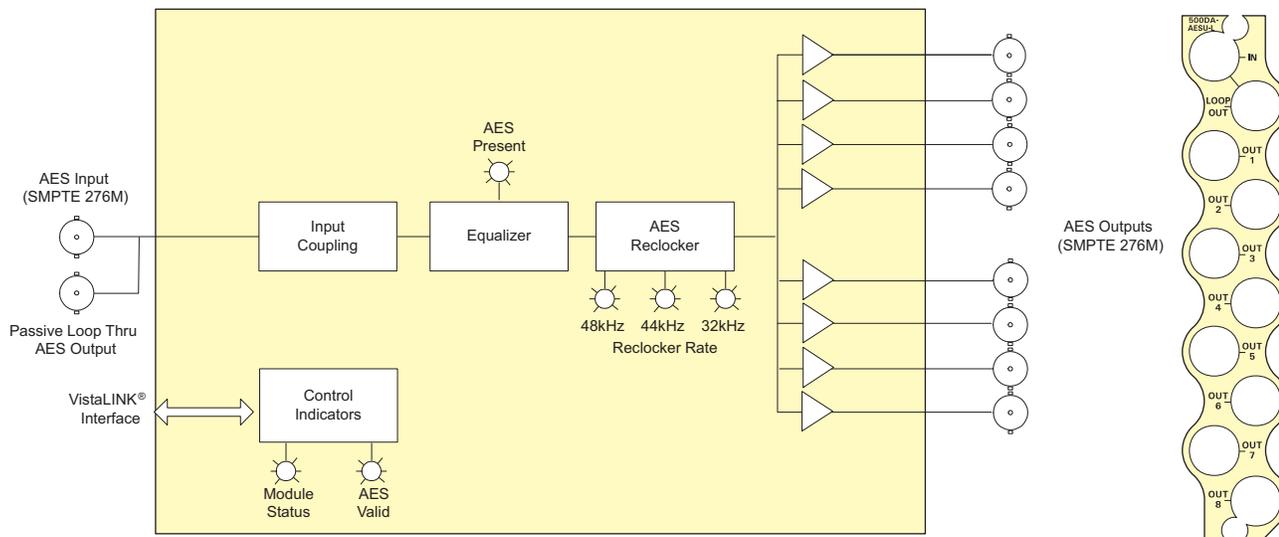
- SMPTE 276M standard for AES audio on 75Ω coax
- EQ and reclock provide extended cable length compensation (> 1500m)
- Transformer coupled 75Ω unbalanced input

#### Outputs:

- Eight 75Ω coax outputs

#### Card Edge LEDs:

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



### ►Specifications

#### AES Input:

Standard: SMPTE 276M  
 Number of Inputs: 1  
 Connector: BNC per IEC 61169-8 Annex A  
 Input Level: 1V p-p  
 Coupling: Transformer  
 Input Impedance: 75Ω  
 Return Loss: > 25dB 100kHz to 6MHz  
 Equalization: Automatic to 1500m with Belden 1694A (or equivalent) @ 48kHz AES signal  
 Sampling Frequency: 32kHz, 44.1kHz, 48kHz and 96kHz

#### AES Output:

Number of Outputs: 1 passive loop thru, 8 Unbalanced reclocked AES  
 Connector: BNC per IEC 61169-8 Annex A  
 Output Level: 1V p-p  
 Output Impedance: 75Ω  
 Return Loss: > 25dB 100kHz to 6MHz

#### Physical:

Number of Slots: 1

#### Electrical:

Voltage: +12V DC  
 Power: 5W  
 EMI/RFI: Complies with FCC Part 15 Class A EU EMC Directive

### ►Ordering Information

**500DA-AESU-L** Unbalanced AES Distribution Amplifier (1x9) with Loop Thru

#### Enclosures

**500FR**  
**500FR-L-A**  
**S501FR**

Compact High Density Distribution Frame  
 Compact High Density Distribution Frame with Loop Thru (Analog)  
 Standalone enclosure