

Dual Unbalanced AES Audio Distribution Amplifier

Model 500DA2Q-AESU

The 500DA2Q-AESU provides an economical method of distribution for your AES digital audio signals. The DA's feature two auto-equalized inputs with four re-clocked outputs each. The module can also be configured for one input with eight relocked outputs for applications where a larger numbers of outputs is required.

The 500DA2Q-AESU is housed in the 500FR **exponent** frame that will hold up to 16 modules.

Features

- Supports SMPTE 276M standard for AES audio on 75Ω coax
- 2 independent distribution amplifiers with 4 relocked outputs provides jitter reduction
- Can be configured as one 8 output distribution amplifier
- Automatic equalization provides extended cable length capabilities
- Card edge indicators for PLL out of lock, parity error or bi-phase coding errors
- Tally output of input error conditions

Inputs:

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

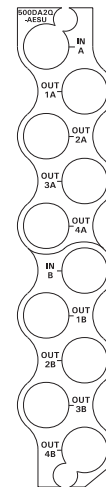
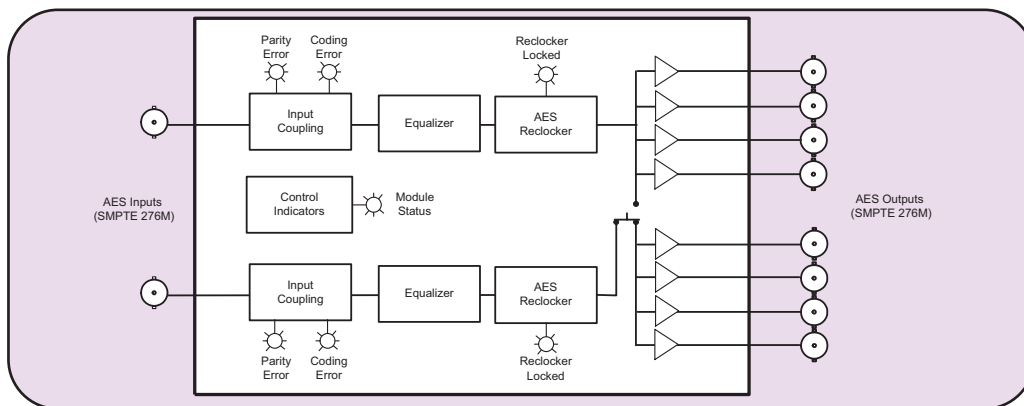
Outputs:

- 4 relocked outputs per input

Card Edge LEDs:

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

500DA2Q-AESU Block Diagram



Specifications

AES Audio Inputs:

Number of Inputs: 2
Standard: SMPTE 276M, single ended AES
Connectors: BNC per IEC 169-8
Coupling: Transformer
Signal Level: 1V p-p $\pm 0.1V$
Equalization: Automatic 1500m @48KHz with Belden 1694A or equivalent cable
Impedance: 75Ω
Return Loss: >25 dB 100 kHz to 6 MHz
Sampling Rate: 32 KHz, 44.1 kHz, 48 kHz and 96 kHz

AES Audio Outputs:

Number of Outputs: 4 relocked output per input (normal)
8 outputs from input 1 (jumper selectable)
Standard: SMPTE 276M, single ended AES
Connectors: BNC per IEC 169-8
Signal Level: 1V p-p $\pm 0.1V$
Impedance: 75Ω unbalanced
Return Loss: >25 dB 100 kHz to 6 MHz

Electrical:

Voltage: + 12VDC
Power: 1.2 Watts

Physical:

Number of slots: 1

Ordering Information:

500DA2Q-AESU

SDI Dual Reclocking Distribution Amplifier (2 - 1 x 4)

Enclosure:

500FR
S501FR

exponent

Compact High Density Distribution Frame
Standalone enclosure