7700DA-AESB

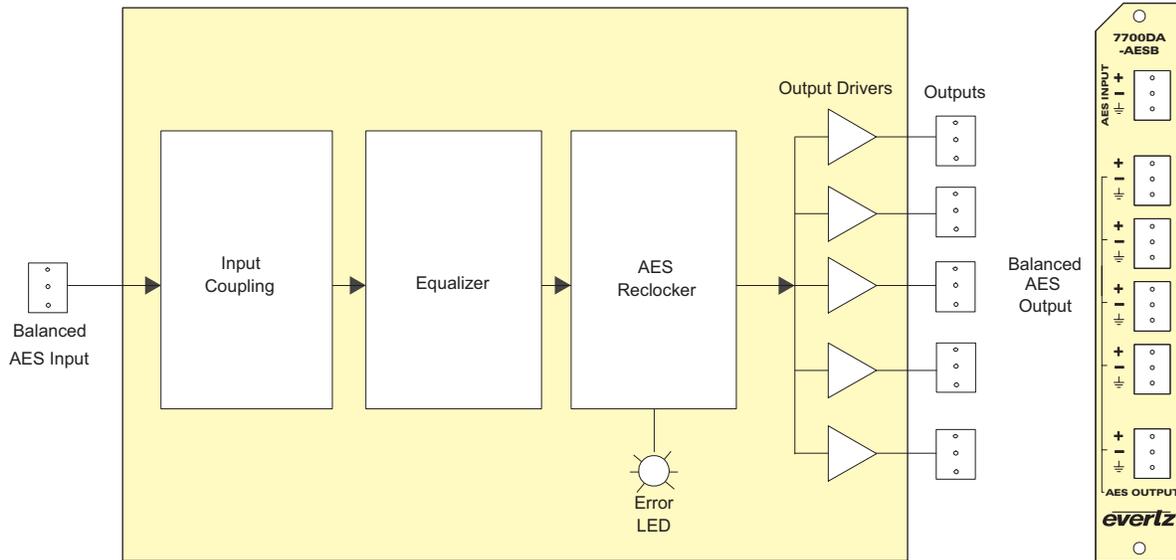*Auto Equalizing Balanced AES/EBU Distribution Amplifier*

The 7700DA-AESB is a five output DA with auto equalizing input and reclocking for 110Ω balanced AES signals. The DA will automatically equalize AES signals on Belden 1800B cable when the drive signal is 7V p-p. The DA will reclock data with sampling frequencies of 32kHz, 44.1kHz, 48kHz and 96kHz.

The 7700DA-AESB card edge LED indicators provide quick and accurate assessment of the incoming signal integrity. The 7700DA-AESB also provides a contact closure output that can be configured using on-board jumpers to assert when an input error condition exists.

The 7700DA-AESB occupies one card slot and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 15 modules, a 350FR portable frame which will hold up to 7 modules or a standalone enclosure that will hold 1 module.

▸Features & Benefits

• AES3-1992 standard for AES audio on 110Ω twisted pair cable
• Transformer coupled 110Ω balanced input (selectable Hi-Z)
• Data reclocking provides jitter reduction
• Automatic equalization

• EQ and reclock provide extended cable length compensation
• Five 110Ω balanced outputs
• Error LED indication for input PLL out of lock, parity error or biphase coding error
• External indication of input error condition using contact closure output

▸Specifications

AES Input:
Standard:	AES3-1992
Connector:	3-pin removable terminal strip
Number of inputs:	1
Input Level:	2 to 7V p-p
Coupling:	Transformer
Input Impedance:	110Ω (selectable Hi-Z)
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:	5 per card Reclocked
Connector:	3-pin removable terminal strip
Output Level:	5V p-p
Output Impedance:	110Ω
Return Loss:	30dB 100kHz to 6MHz

Electrical:
Voltage:	+12V DC
Power:	1.8W
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC Directive

Physical:
Number of Slots:	1

▸▸▸▸Ordering Information

7700DA-AESB	Auto Equalizing Balanced AES/EBU Distribution Amplifier

Ordering Options	Rear Plate must be specified at time of order Eg: Model +3RU

Rear Plate Suffix
+3RU	3RU Rear Plate for use with 350FR & 7700FR-C Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Enclosures
350FR	3RU Portable Multiframe which holds up to 7 single slot modules
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone enclosure