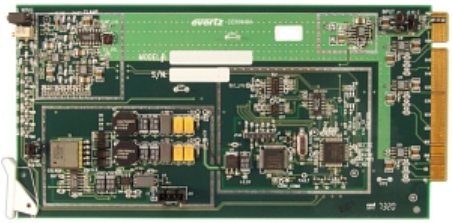
500ADA exponent

Analog Video Distribution Amplifier



The 500ADA Analog Distribution Amplifier is a general purpose amplifier for distributing analog signals. The 500ADA features one balanced input with nine outputs.

The 500ADA has been designed to distribute a wide range of analog video signals. It can also distribute other pulses and signals that do not exceed 2Vp-p.

The 500ADA is housed in the 3RU 500FR exponent frame that will hold up to 16 modules.

Features

- 75 Ω or high impedance input (jumper selectable)
- High common mode range and common mode rejection ratio (CMRR)
- Gain Control
- Jumper selectable AC or DC coupling
- Looping feature with extenal "T" connector
- Consistent input impedance if card power is lost

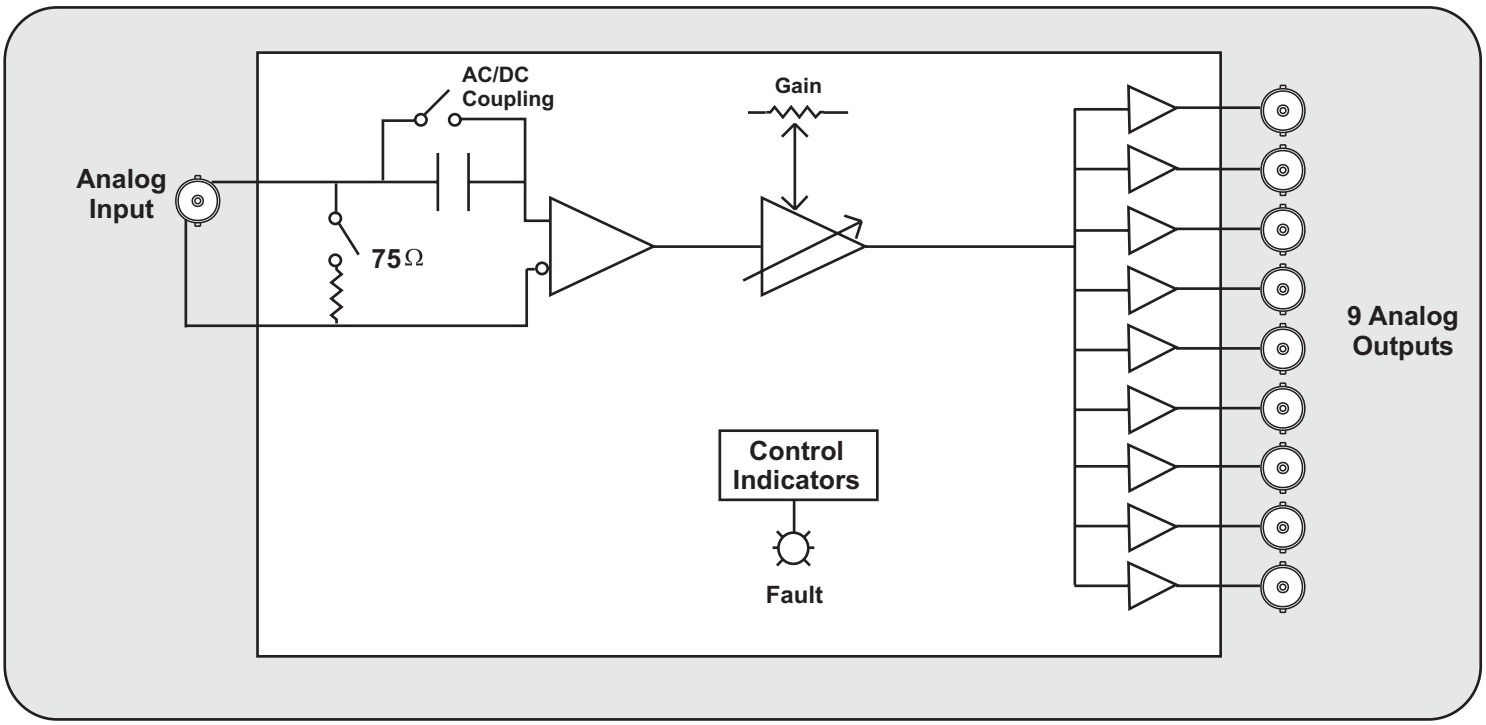
Card Edge LEDs

- Module Status/Local Fault
- Power Supply Status

Specifications

Analog Video Input:	
Standards:	Any analog video format, up to 2Vp-p, and 30MHz bandwidth
Connector:	1 BNC input per IEC 169-8
Common Mode Range:	>6Vp-p
CMRR:	>70dB to 1kHz
Signal Amplitude:	2.5Vp-p max
Impedance:	75Ω terminated, 35kOhms Hi-Z (jumper selectable)
Coupling:	AC or DC (jumper selectable)
Return Loss:	>40dB to 10MHz, >30dB to 30MHz
Analog Video Outputs:	
Number of Outputs:	9 per card
Connector:	BNC per IEC 169-8
Output Impedance:	75Ω
Gain Control Range:	±5dB
DC level (DC coupling active):	<±100mV
Frequency Response:	<±0.05dB (to 5.5MHz)
Differential Gain:	<0.17%
Differential Phase:	<0.19deg
C/L gain inequality:	<±0.1%
C/L Delay:	<±2nsec
Output isolation:	42dB to 10MHz, 32dB to 30MHz
Output return loss:	>40dB to 30MHz
Noise performance:	<-78dB RMS NTC7 weighting <-70dB RMS 15kHz to 5.5MHz
Electrical:	
Voltage:	+12VDC
Power:	1.2 Watts
EMI/RFI:	Complies with FCC Part 15 Class A, EU EMC Directive
Physical	
Number of Slots:	1
Ordering Information	
500ADA:	Analog Distribution Amplifier (1 x 9)
Enclosures	
500FR:	exponent Compact High Density Distribution Frame

500ADA Block Diagram



500ADA Rear Panel