Analog Video Distribution Amplifier

500ADA

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.

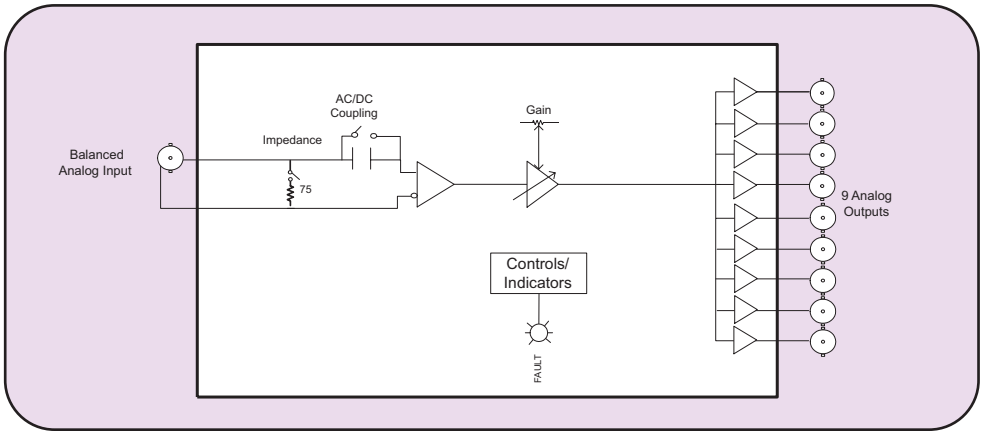
Features

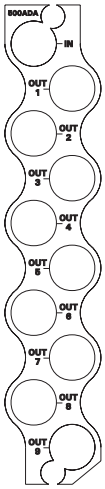
- 75Ω or high impedance input (jumper selectable)
- High common mode range and common mode rejection ratio (CMRR)
- Gain control
- Jumper selectable AC or DC coupling
- Looping feature with external "T" connector
- Consistent input impedance if card power is lost

Card Edge LEDs:

- Module status/Local Fault
- Power supply status

500ADA Block Diagram





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, 35kΩ 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
Freq. Response:	<+/-0.05dB (to 5.5MHz)
Differential Gain:	<0.17 %
Differential Phase:	< 0.19 deg
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 Video Distribution Amplifier (1 x 9)

Enclosures:

500FR	Compact High Density Distribution Frame
S501FR	Standalone enclosure