The 500ADA-EQ is housed in the 3RU 500FR exponent frame that will hold up





The 500ADA-EQ Analog Video Distribution Amplifier is a general purpose amplifier for distributing  $75\Omega$  analog video signals.

to 16 modules.

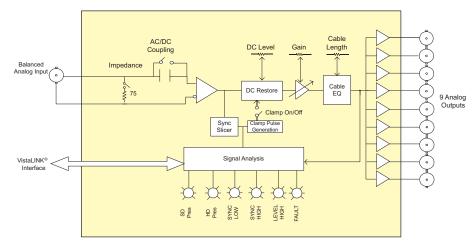
The 500ADA-EQ features one balanced equalized input with nine unbalanced outputs. The 500ADA-EQ amplifier has been designed to distribute a wide range of analog video signals. It can also distribute other pulses and signals that are less than 2V p-p.

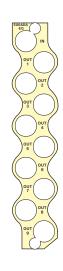
## **Features & Benefits**

- 75 $\Omega$  or high impedance input (jumper selectable)
- High common mode range and common mode rejection ratio (CMRR)
- Gain control
- · Jumper selectable AC or DC coupling
- Jumper selectable fast or slow back porch clamp
- DC level control when clamp is enabled
- Cable equalizer adjustment range: 0 to 300m of 8281 or 1694
- · Looping feature with external "T" connector
- · Consistent input impedance if card power is lost
- VistaLINK® capable for remote monitoring via SNMP (using VistaLINK® PRO) when installed in 500FR frame with 500FC VistaLINK® Frame Controller

## Card Edge LEDs

- Module status/Local Fault
- Power supply status
- EQ Warning





## **Specifications**

Analog Video Input:

Any analog video format, up to 2V p-p Standards

and 30MHz bandwidth

Connector: 1 BNC per IEC 60169-8 Amendment 2

Common mode range:

> 6V p-p CMRR: > 70dB to 1kHz

2.5V p-p max 0 to 300m of Belden 8281 or 1694A Signal amplitude: Cable equalizer:

cable

Impedance: 75Ω terminated, 35kΩ Hi-Z (jumper

selectable)

Coupling: AC or DC (jumper selectable)

Return loss: > 40dB to 10MHz, > 30dB to 30MHz Clamp range: > +600 mV

Fast clamp attenuation of 60Hz: > 36dB

Analog Video Outputs:

Number of Outputs: 9 Per Card

Connector: BNC per IEC 60169-8 Amendment 2

Output impedance:  $75\Omega$ 

Gain control range: ±5dB

DC Level: < ±100mV (with DC Coupling active

and back porch clamp disabled)

DC Level Control range:

< ± 200mV (with back porch clamp

enabled)

Freq. Response: < ±0.05dB no equalization

< ±0.09dB for 5 to 100m Belden 8281 or 1694A (to 5.5MHz)

< ±0.15dB for 100 to 300m Belden

8281 or 1694A (to 5.5MHz)

Differential Gain: < 0.17% 0 to 300m

Differential Phase: < 0.19° 0 to 300m C/L gain inequality:  $< \pm 0.1\%$  for all cable lengths

C/L Delay: < ±2ns

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: Powe

+12V DC 1.2W

EMI/RFI: Complies with FCC Part 15 Class A

EU EMC Directive

Physical:

Number of Slots:

## **Ordering Information**

500ADA-FQ Analog Video Distribution Amplifier with Cable Equalization (1x9)

**Enclosures** 500FR S501FR

Compact High Density Distribution Frame

Standalone enclosure