

# 500ADA-EQ-L

## Analog Video Distribution Amplifier with Cable Equalization



The 500ADA-EQ-L is an Analog Distribution Amplifier with cable equalization on 8 outputs. It amplifies composite analog for distributing 75 $\Omega$  analog video signals.

The 500ADA-EQ-L has a user-selectable Low Pass Filter with an 8MHz corner frequency to eliminate unwanted out of band high frequencies. This is ideal for the distribution of master black throughout the broadcast plant.

The module features one balanced equalized input with 8 unbalanced outputs. The 500ADA-EQ-L can also monitor signal and hardware integrity.

When inserted into a 500FR-L-A (Compact High Density Distribution Frame with Analog Loop Thru), the 500ADA-EQ-L allows for passive loop through of an analog video input to the other modules in the frame. The 500ADA-EQ-L is housed in the 3RU **exponent** 500FR frame or 500FR-L-A that will hold up to 16 modules.

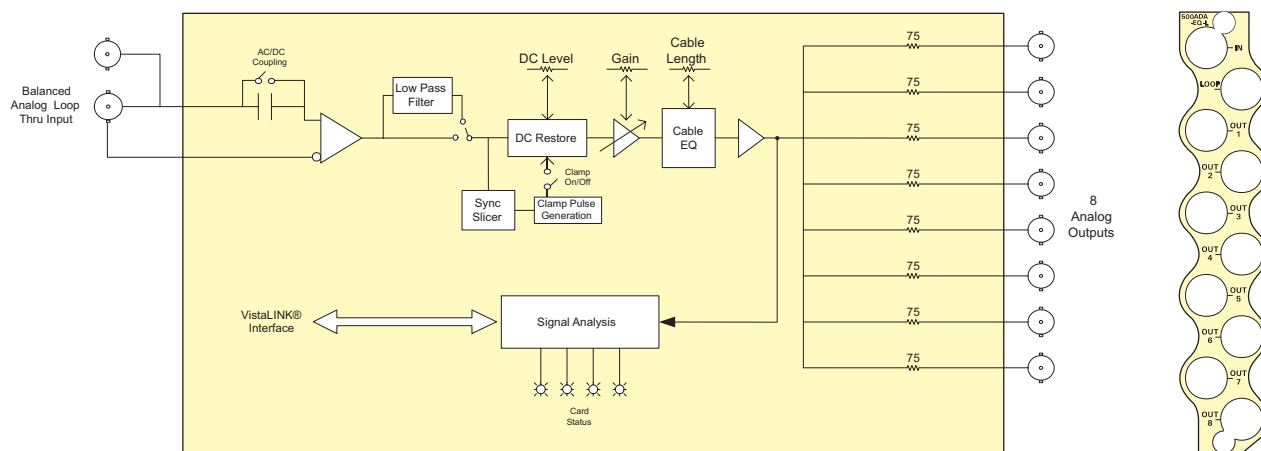
## Features & Benefits

- Passive loop thru
- 75 $\Omega$  or high impedance input
- High common mode range and common mode rejection ratio (CMRR)
- Jumper selectable low pass input filtering
- Gain control
- Jumper selectable AC or DC coupling
- Jumper selectable fast or slow back porch clamp
- DC level control when clamp is enabled
- Cable post equalizer adjustment on input. Range: 0 to 300m of 8281 or 1694

- Consistent input impedance if card power is lost
- Signal and hardware integrity monitoring
- 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
- Signal Status



## Specifications

### Analog Video Input:

Standards: NTSC or PAL-B  
Connector: 1 BNC per IEC 60169-8 Amendment 2  
Common mode range: > 6V p-p  
CMRR: > 70dB to 1kHz  
Signal amplitude: 2.5V p-p max  
Cable post, pre-equalizer: 0 to 300m of Belden 8281 or 1694 cable  
Impedance: Hi-Z (Looping)  
Coupling: AC or DC (jumper selectable)  
Single Card Return Loss: > 25dB to 5.5MHz (De-rate spec. when looping through multiple 500FR-L-A inputs)  
Fast clamp attenuation of 60Hz: > 20dB

### Analog Video Outputs:

Number of Outputs: 8 Per Card  
Connector: BNC per IEC 60169-8 Amendment 2  
Output Impedance: 75 $\Omega$   
Gain control range: +5dB  
DC Level: <  $\pm 100$ mV (with DC Coupling active and back porch clamp disabled)  
DC Level Control Range: <  $\pm 200$ mV (with back porch clamp enabled)  
Output isolation: > 42dB to 10MHz, > 32dB to 30MHz  
Output return loss: > 40dB to 30MHz  
Noise Performance < -70dB RMS 15kHz to 5.5MHz < -78dB RMS NTC7 weighting

### Physical:

Number of Slots: 1

### Electrical:

Voltage: +12V DC  
Power: 1.2W  
EMI/RFI: Complies with FCC Part 15 Class A EU EMC Directive

## Ordering Information

**500ADA-EQ-L** Analog Video Distribution Amplifier with Cable Equalization

Enclosures  
**500FR-L-A**

**exponent**  
Compact High Density Distribution Frame with Loop Thru (Analog)

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