

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 75Ω 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.

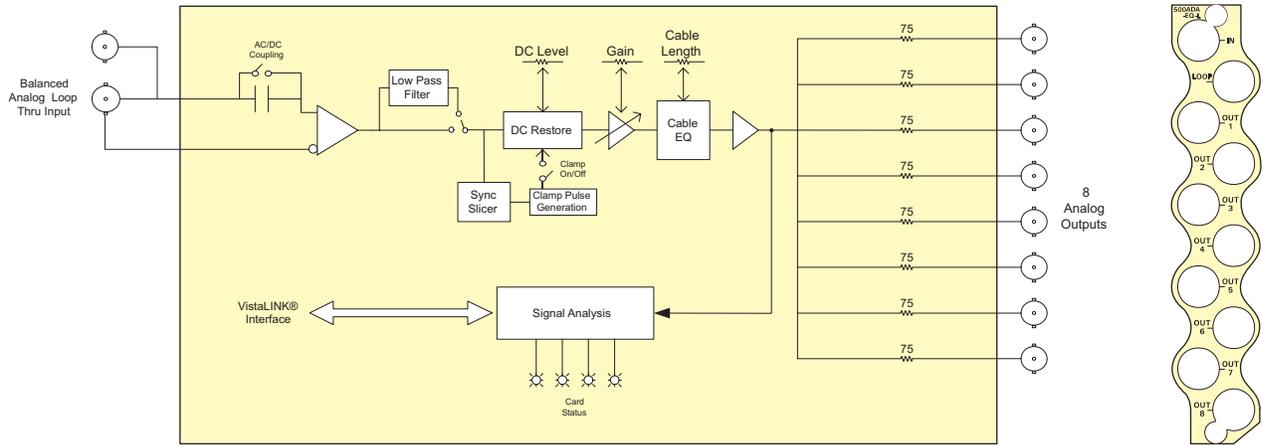
Features & Benefits

- Passive loop thru
- 75Ω 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
> 70dB to 1kHz
Signal amplitude: 2.5V p-p max
Cable post, pre-equalizer:
0 to 300m of Belden 8281 or 1694A 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: 75Ω
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)
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 **exponent**
500FR-L-A Compact High Density Distribution Frame with Loop Thru (Analog)