

500ADA-EQ

Analog Video Distribution Amplifier with Cable Equalization (1x9)

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

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.

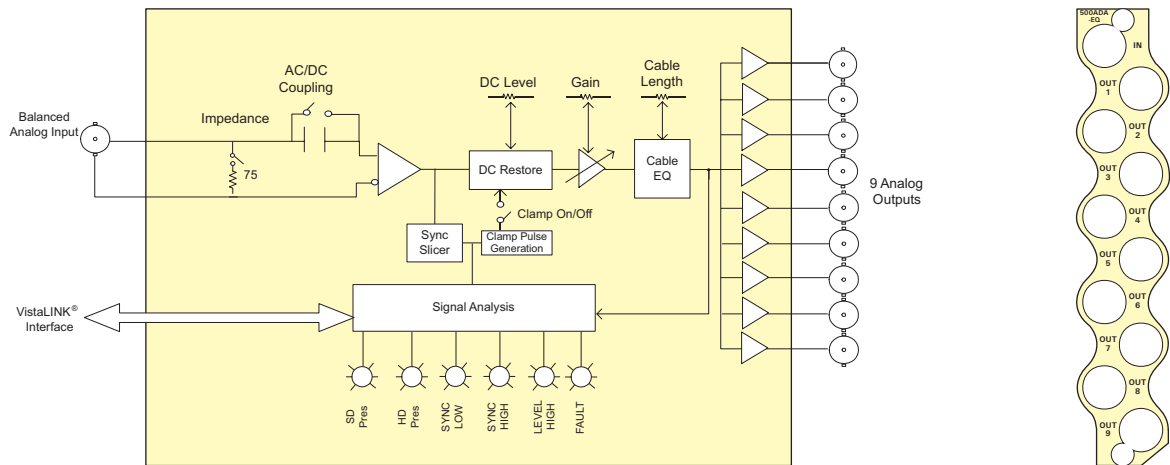
The 500ADA-EQ is housed in the 3RU 500FR **exponent** frame that will hold up to 16 modules.

►Features & Benefits

- 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
- 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:

Standards: Any analog video format, up to 2V p-p and 30MHz bandwidth
Connector: 1 BNC per IEC 61169-8 Annex A
Common mode range: > 6V p-p
CMRR: > 70dB to 1kHz
Signal amplitude: 2.5V p-p max
Cable equalizer: 0 to 300m of Belden 8281 or 1694A cable
Impedance: 75 Ω terminated, 35k Ω 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 61169-8 Annex A
Output impedance: 75 Ω
Gain control range: ± 5 dB
DC Level: < ± 100 mV (with DC Coupling active and back porch clamp disabled)
DC Level Control range: < ± 200 mV (with back porch clamp enabled)
Freq. Response: < ± 0.05 dB no equalization
< ± 0.09 dB for 5 to 100m Belden 8281 or 1694A (to 5.5MHz)
< ± 0.15 dB for 100 to 300m Belden 8281 or 1694A (to 5.5MHz)
Differential Gain: < 0.17% 0 to 300m
Differential Phase: < 0.19 $^\circ$ 0 to 300m

C/L gain inequality: < $\pm 0.1\%$ for all cable lengths
C/L Delay: < ± 2 ns
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: +12V DC
Power: 1.2W
EMI/RFI: Complies with FCC Part 15 Class A EU EMC Directive

Physical:

Number of slots: 1

►Ordering Information

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

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure

Compact Modular - 300, 400 & 500 Series