

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

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

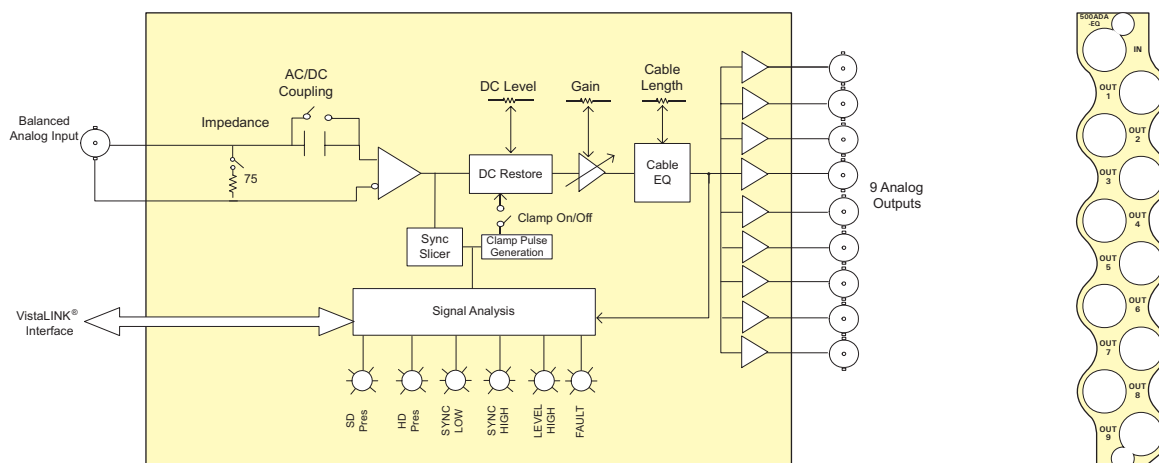
The 500ADA-EQ features one balanced equalized input with nine unbalanced outputs. The 500ADA-EQ amplifier has been designed to distribute a wide range of analog video signals. It can also distribute other pulses and signals that are less than 2V p-p.

►Features & Benefits

- 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
- 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: 75Ω terminated, 35kΩ Hi-Z (jumper selectable)
 Coupling: AC or DC (jumper selectable)
 Return loss: > 40dB to 10MHz, > 30dB to 30MHz
 Clamp range: > ±600mV
 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: 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)
 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: < ±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: +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