

501ADA-EQ

Analog Video Distribution Amplifier with Cable Equalization (1x9)

The 501ADA-EQ Analog Video Distribution Amplifier is a general purpose amplifier for distributing 75Ω analog video signals.

The 501ADA-EQ features one balanced equalized input with nine unbalanced outputs. The 501ADA-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 501ADA-EQ is housed in the 3RU 500FR **exponent** frame that will hold up to 16 modules.

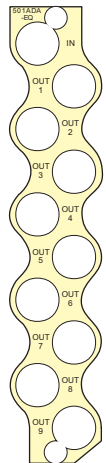
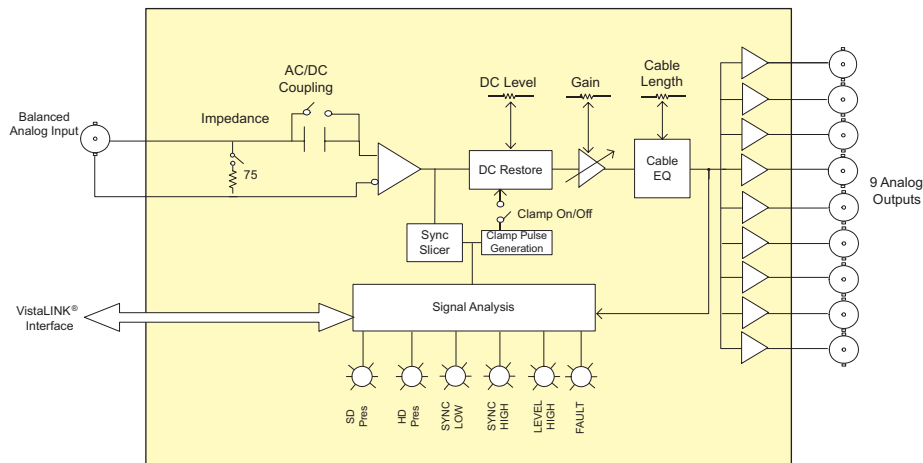
VistaLINK® enables control and configuration capabilities via Simple Network Management Protocol (SNMP). This offers the flexibility to manage the module status monitoring and configuration from SNMP enabled control systems such as Evertz VistaLINK® PRO locally or remotely

►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

501ADA-EQ Analog Video Distribution Amplifier with Cable Equalization (1x9)

Enclosures
500FR
S501FR

exponent
Compact High Density Distribution Frame
Standalone enclosure