

500ADA-EQ

Analog Video Distribution Amplifier with Cable Equalization

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

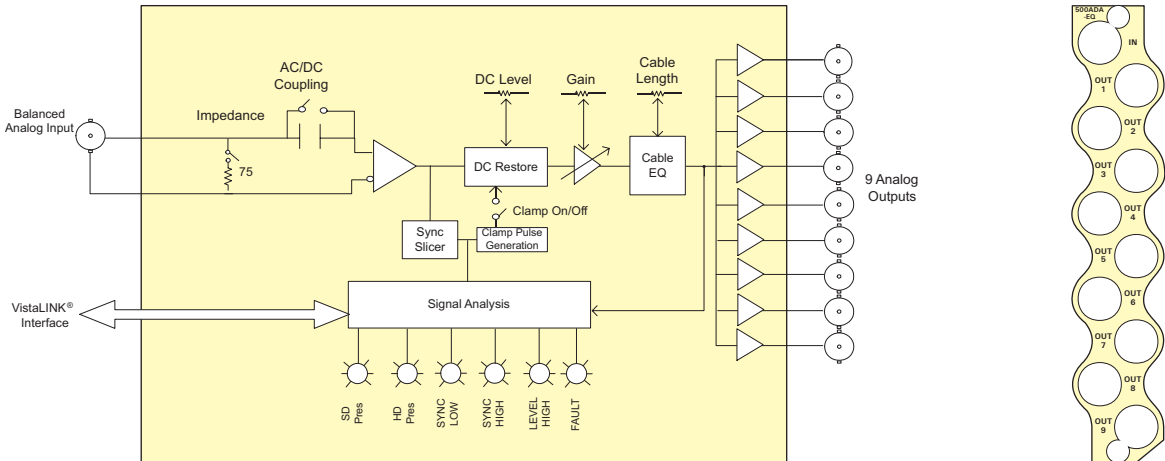
The 500ADA-EQ is housed in the 3RU 500FR **exponent** frame that will hold up to 16 modules.

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:		Analog Video Outputs:	C/L gain inequality: < ±0.1% for all cable lengths
Standards:	Any analog video format, up to 2V p-p and 30MHz bandwidth	Number of Outputs: 9 Per Card	C/L Delay: < ±2ns
Connector:	1 BNC per IEC 61169-8 Annex A	Connector: BNC per IEC 61169-8 Annex A	Output isolation: > 42dB to 10MHz, > 32dB to 30MHz
Common mode range:		Output impedance: 75Ω	Output return loss: > 40dB to 30MHz
		Gain control range: ±5dB	Noise performance: < -78dB RMS NTC7 weighting, < -70dB RMS 15kHz to 5.5MHz
CMRR:	> 6V p-p	DC Level: < ±100mV (with DC Coupling active and back porch clamp disabled)	
Signal amplitude:	> 70dB to 1kHz	DC Level Control range: < ± 200mV (with back porch clamp enabled)	Electrical:
Cable equalizer:	2.5V p-p max	Freq. Response: < ±0.05dB no equalization < ±0.09dB for 5 to 100m Belden 8281 or 1694A (to 5.5MHz)	Voltage: +12V DC
Impedance:	0 to 300m of Belden 8281 or 1694A cable		Power: 1.2W
Coupling:	75Ω terminated, 35kΩ Hi-Z (jumper selectable)		EMI/RFI: Complies with FCC Part 15 Class A EU EMC Directive
Return loss:	AC or DC (jumper selectable)		
Clamp range:	> 40dB to 10MHz, > 30dB to 30MHz		Physical:
Fast clamp attenuation of 60Hz:	> ±600mV		Number of Slots: 1
	> 36dB		

►Ordering Information

500ADA-EQ	Analog Video Distribution Amplifier with Cable Equalization (1x9)
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Enclosures	exponent
500FR	Compact High Density Distribution Frame
S501FR	Standalone enclosure