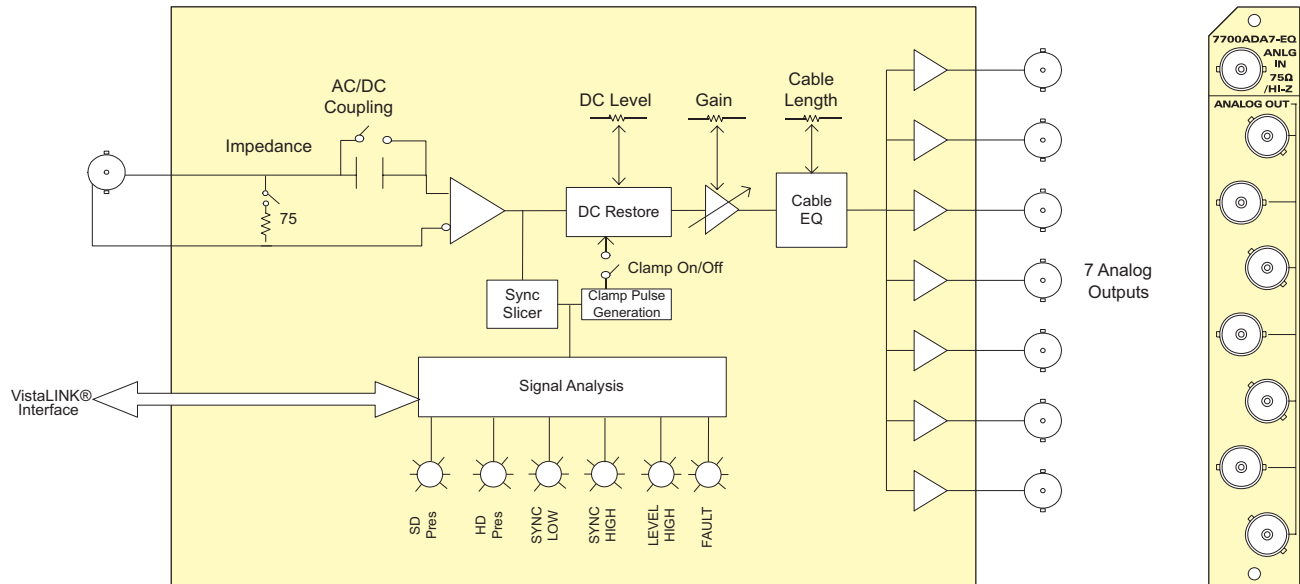# 7700ADA7-EQ
Analog Video Distribution Amplifier

The 7700ADA7-EQ Equalizing Analog Distribution Amplifier is a general purpose amplifier for distributing analog video signals. The 7700ADA7-EQ features one balanced equalized input with seven outputs. It 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 7700ADA7-EQ is housed in the 3 RU frame, which will hold up to 15 modules or the 1RU frame, which will hold up to three modules.

Features & Benefits

- 75Ω or high impedance input (jumper selectable)
- High common mode range and common mode rejection ratio (CMMR)
- 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 1694A

- Looping feature with external "T" connector and external termination
- Consistent input impedance if card power is lost
- VistaLINK® capable offering remote control and configuration capabilities via SNMP (using VistaLINK® PRO, 9000NCP or 9000NCP2 Network Control Panel) is available when modules are used with the 3RU 7700FR-C frame and a 7700FC VistaLINK® Frame Controller

Specifications

Analog Video Input:

Standards:	Any analog video format, up to 2V p-p and 30MHz bandwidth
Connector:	BNC input per IEC 60169-8 Amendment 2
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:	7
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)
Freq. Response:	< ±0.05dB no equalization (to 5.5MHz)
	< ±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 cablelengths
C/L Delay:	< ±2nsec
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:	5W

Physical:

Number of slots:	1

Ordering Information

7700ADA7-EQ	Analog Video Equalizing Distribution Amplifier (1x7)

Ordering Options	Rear Plate must be specified at time of order
	Eg: Model +3RU

Rear Plate Suffix	
+3RU	3RU Rear Plate for use with 7700FR-C Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Enclosures	
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone enclosure

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