

Equalizing Analog Video Distribution Amplifier

7700ADA7-EQ

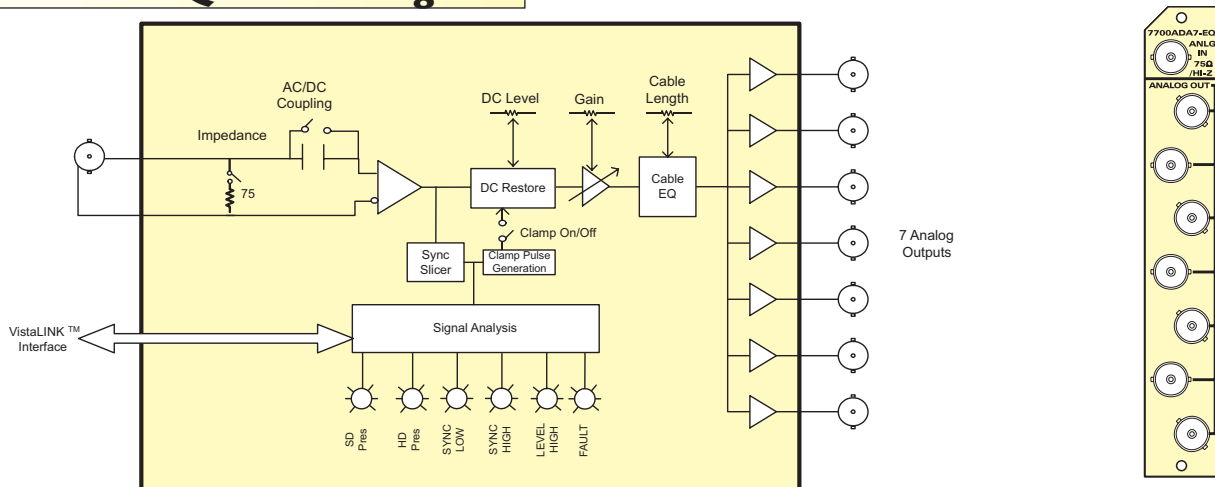
The 7700ADA7-EQ Equalizing Analog Distribution Amplifier is a general purpose amplifier for distributing analog video signals. The 7700ADA7-EQ features one balanced equalized input with seven outputs. The 7700ADA7-EQ amplifier has been designed to distribute a wide range of analog video signals. It can also distribute other pulses and signals that are less than 2Vp-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

- 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

7700ADA7-EQ Block Diagram



Specifications

Analog Video Input:

Standards:	Any analog video format, up to 2Vp-p and 30MHz bandwidth
Connector:	1 BNC input per IEC 60169-8 Amendment 2
Common mode range:	>6Vp-p
CMRR:	>70dB to 1kHz
Signal amplitude:	2.5Vp-p max
Cable equalizer:	0 to 300m of Belden 8281 or 1694A cable
Impedance:	75Ω terminated, 35kOhms 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 1694 (to 5.5MHz) < ±0.15dB for 100 to 300m Belden 8281 or 1694 (to 5.5MHz) < 0.17 % 0 to 300m < 0.19 deg 0 to 300m < +/- 0.1% for all cable lengths < +/- 2nsec
Differential Gain:	
Differential Phase:	
C/L gain inequality:	
C/L Delay:	

Output isolation:	>42dB to 10MHz, >32 dB to 30MHz
Output return loss:	>40dB to 30MHz
Noise performance:	<-78dB RMS NTC7 weighting <-70dB RMS 15kHz to 5.5MHz

Electrical:

Voltage:	+ 12VDC
Power:	5 Watts

Physical:

Number of slots:	1
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Ordering Information:

7700ADA7-EQ	Analog Video Equalizing Distribution Amplifier, with 7 outputs
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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 15 modules
7701FR	1RU Multiframe which holds 3 modules
S7701FR	Standalone enclosure