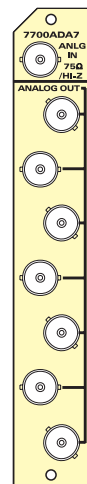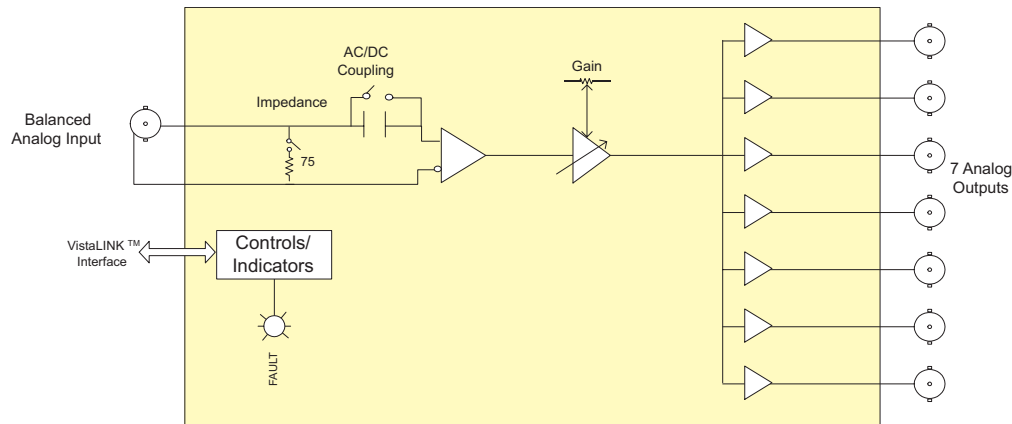# Analog Video Distribution Amplifier

7700ADA7

The 7700ADA7 Analog Distribution Amplifier is a general purpose amplifier for distributing analog video signals. The 7700ADA7 features one balanced input with seven outputs. The 7700ADA7 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 occupies one card slot in the 3RU 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

- Looping feature with external "T" connector
- Consistent input impedance if card power is lost

7700ADA7 Block Diagram

Specifications

Analog Video Input:

Standards:	Any analog video format, up to 2Vp-p and 30MHz bandwidth
Connector:	BNC per IEC 60169-8 Amendment 2
Common mode range:	>6Vp-p
CMRR:	> 70dB to 1kHz
Signal amplitude:	2.5Vp-p max
Impedance:	75Ω terminated, 35kΩ Hi-Z (jumper selectable)
Coupling:	AC or DC (jumper selectable)
Return loss:	>40dB to 10MHz, >30dB to 30MHz

Analog Video Outputs:

Number of Outputs:	7 Per Card
Connector:	BNC per IEC 60169-8 Amendment 2
Output impedance:	75Ω
Gain control range:	± 5dB
	DC level (DC Coupling active) < +/- 100mV
Freq. Response:	<+/-0.05dB (to 5.5MHz)
Differential Gain:	<0.17 %
Differential Phase:	< 0.19 deg
C/L gain inequality:	<+/-0.1%
C/L Delay:	<+/-2nsec
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:	1.2 Watts
EMI/RFI:	Complies with FCC Part 15, Class A, EU EMC Directive

Physical:

Number of Slots:	1

Ordering Information:

7700ADA7	Analog Video Distribution Amplifier

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