

7700ADA7-EQ

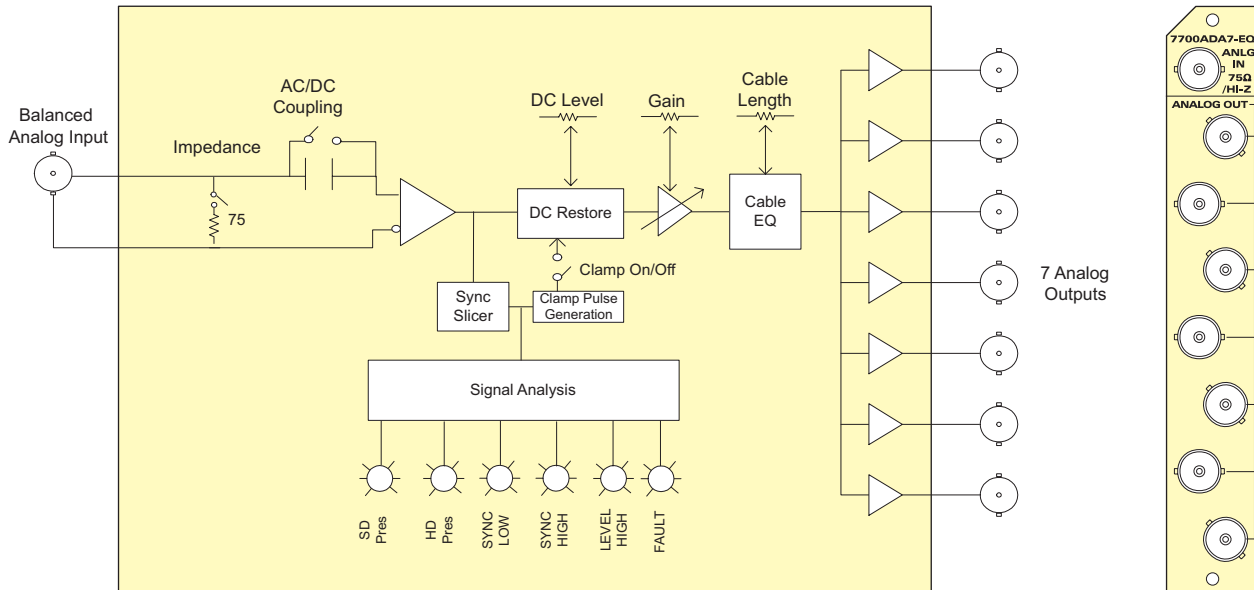
Equalizing Analog Video Distribution Amplifier

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 occupies one card slot and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 15 modules, a 350FR portable frame which will hold up to 7 modules or a standalone enclosure that will hold 1 module.

►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 1694A
- Looping feature with external "T" connector and external termination
- Consistent input impedance if card power is lost



►Specifications

Analog Video Input:

Standards: Any analog video format, up to 2V p-p and 30MHz bandwidth
Connector: BNC input 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: 7
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 (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: < ±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: 5W

Physical (number of slots):

350FR: 1
7700FR-C: 1
7800FR: 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 350FR, 7700FR-C or 7800FR Multiframe
+1RU 1RU Rear Plate for use with 7701FR Multiframe
+SA Standalone Enclosure Rear Plate

Enclosures

350FR
7700FR-C
7800FR
7701FR
S7701FR

3RU Portable Multiframe which holds up to 7 single slot modules
3RU Multiframe which holds up to 15 single slot modules
3RU Multiframe which holds up to 15 single slot modules
1RU Multiframe which holds up to 3 single or dual slot modules
Standalone enclosure