

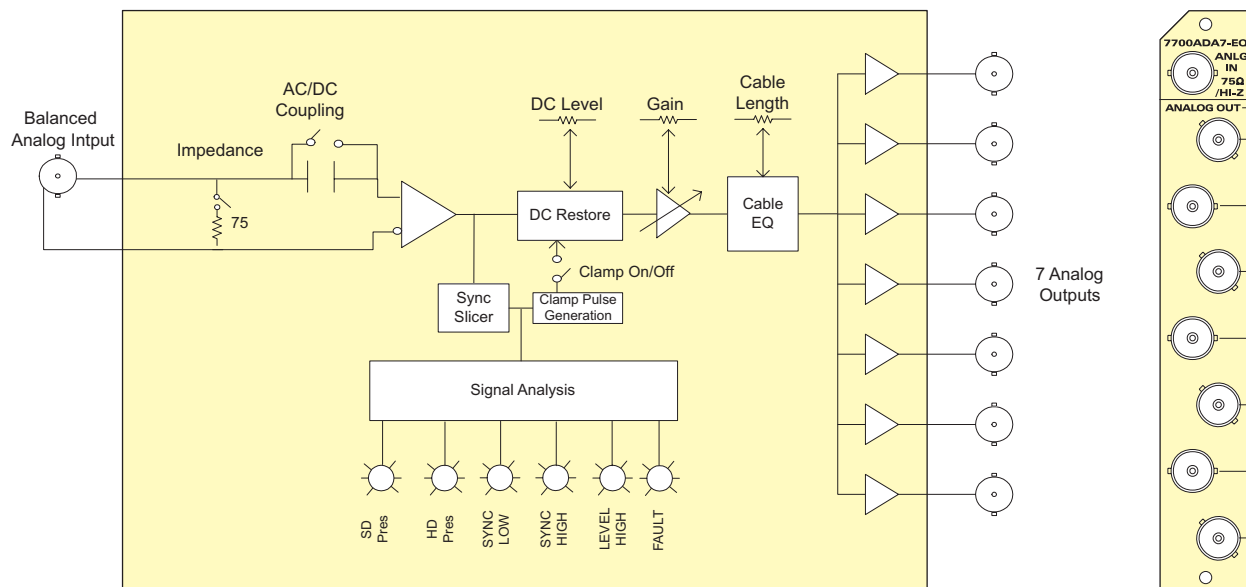
The 7700ADA7-EQ Equalizing Analog Distribution Amplifier is a general purpose amplifier for distributing analog video signals. The 7700ADA7-EQ features one balanced equalized input with seven outputs. It has been designed to distribute a wide range of analog video signals. It can also distribute other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

The 7700ADA7-EQ occupy 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
- 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 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: < ±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 350FR & 7700FR-C Multiframe  
 +1RU 1RU Rear Plate for use with 7701FR Multiframe  
 +SA Standalone Enclosure Rear Plate

#### Enclosures

350FR  
 7700FR-C  
 7701FR  
 S7701FR

3RU Portable Multiframe which holds up to 7 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