

# 7700ADA6-EQ-L

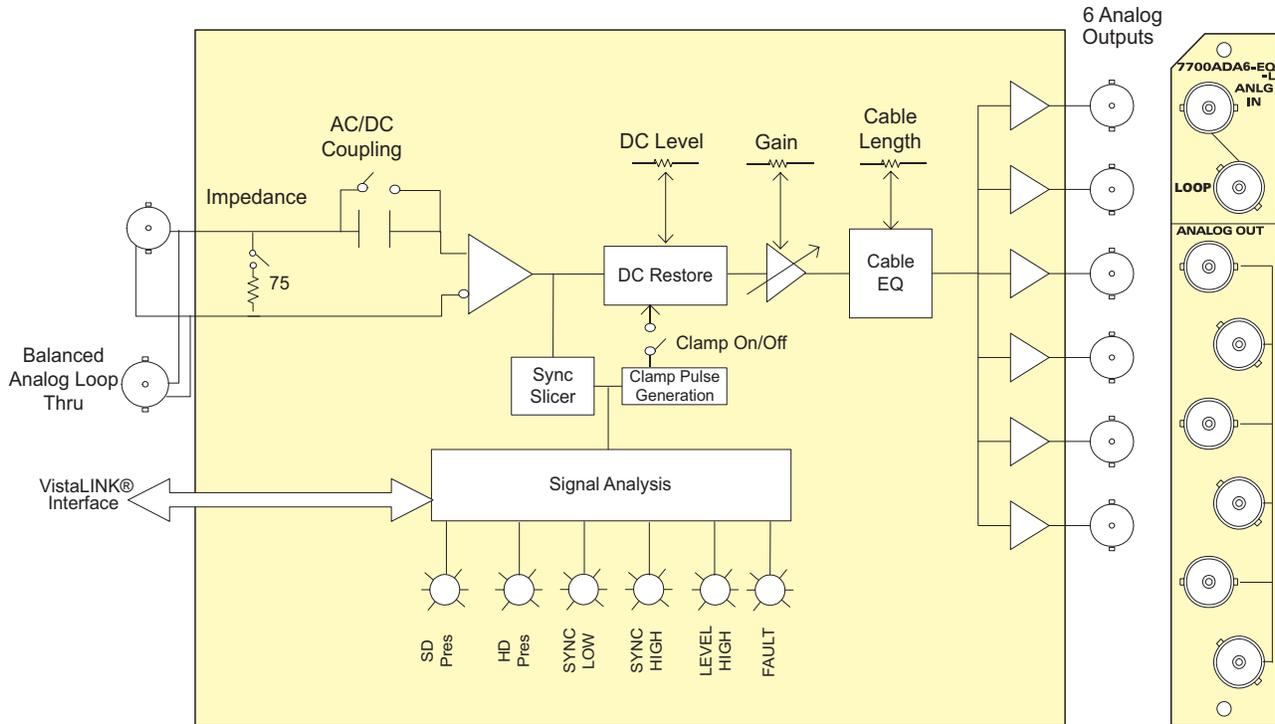
## Equalizing Analog Video Distribution Amplifier with Loop Thru

The 7700ADA6-EQ-L is an equalizing 1x6 Analog Distribution Amplifier. The 7700ADA6-EQ-L features one balanced equalized input, one passive looping output and six outputs. The module 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 7700ADA6-EQ-L 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 & Benefits

- Passive loop thru
- Gain control
- High common mode range and common mode rejection ratio (CMRR)
- 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 1694AA
- Consistent input impedance if card power is lost
- Module Status/Local Fault



### 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  
 Coupling: AC or DC (jumper selectable)  
 Return loss: > 40dB to 10MHz, > 30dB to 30MHz  
 Clamp range: > ±60mV  
 Fast clamp attenuation of 60Hz: > 36dB

#### Analog Video Outputs:

Passive Loop: 1  
 Number of Outputs: 6  
 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)  
 Freq. Response: < ±0.05dB no equalization (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 cable lengths  
 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: 1.2W  
 EMI/RFI: Complies with FCC Part 15, Class A  
 EU EMC Directive

#### Physical:

Number of slots: 1

### Ordering Information

**7700ADA6-EQ-L** Equalizing Analog Video Distribution Amplifier with Loop Thru

**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**  
**7701FR**  
**S7701FR**

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