

7700ADA-ETSI

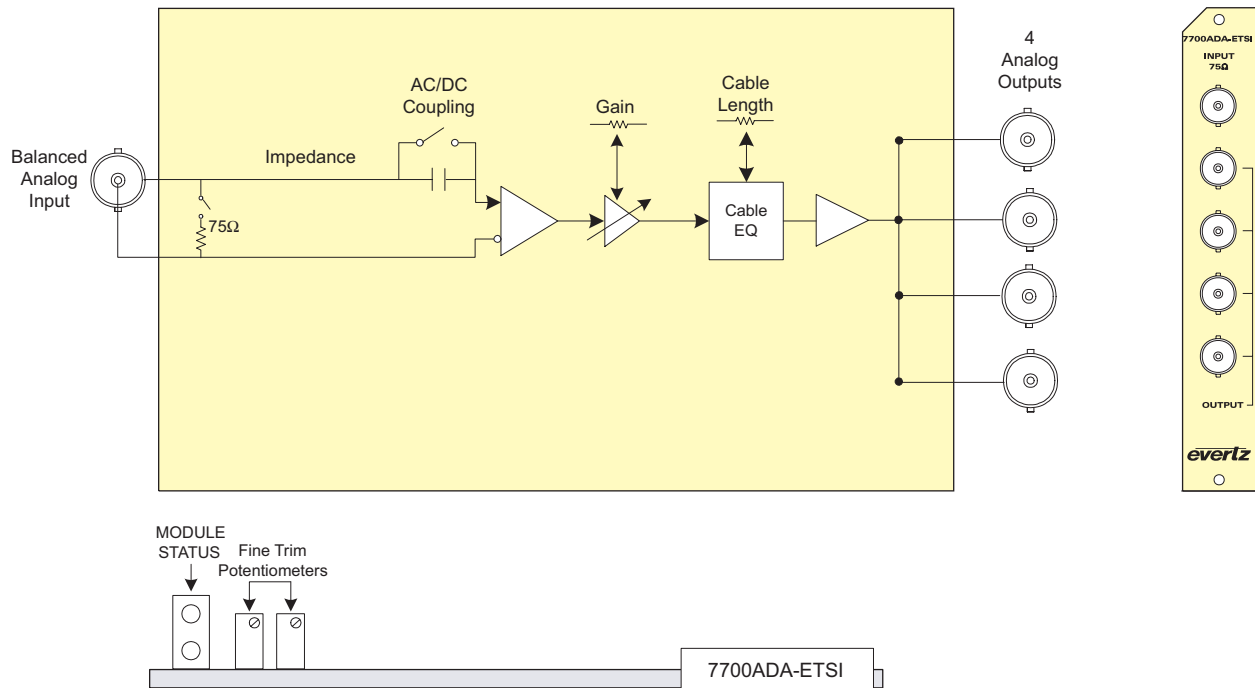
High Amplitude Analog Distribution Amplifier (1x4)

The 7700ADA-ETSI High Amplitude Distribution Amplifier is a general purpose amplifier with an equalizing function for distributing a wide range of digital and analog signals. It has been designed to distribute pulses and signals up to $\pm 3.5V$ ITU-T G.703 E12 (Physical/electrical characteristics of hierarchical digital interface at 2048kb/s) signals. The 7700ADA-ETSI features one balanced equalized input with four outputs.

The 7700ADA-ETSI 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

- 75 Ω input impedance
- Distribute signals up to $\pm 3.5V$ to 30MHz
- High common mode range and common mode rejection ratio (CMRR)
- $\pm 5.5dB$ Gain control range
- Jumper selectable AC or DC coupling
- Cable equalizer adjustment range: 0 to 300m of Belden 8281 or 1694A
- Consistent input impedance if card power is lost



► Specifications

Inputs:

Standards: Any analog waveform up to $\pm 3.5V$ and 30MHz bandwidth
Connector: 1 BNC per IEC 61169-8 Annex A
Common mode range: $> 6V$ p-p
CMRR: $> 60dB$ to 1kHz
Signal amplitude: Up to $\pm 3.5V$
Cable equalizer: 0 to 300m of Belden 8281 or 1694A cable
Impedance: 75 Ω
Coupling: AC or DC (jumper selectable)
Return loss: $> 40dB$ to 10MHz, $> 25dB$ to 30MHz

Outputs:

Number of Outputs: 4 Per Card
Connector: BNC per IEC 61169-8 Annex A
Output impedance: 75 Ω
Gain control range: $\pm 6dB$
Freq. Response: $< \pm 0.05dB$ no equalization (to 5.5MHz)
 $< \pm 0.09dB$ for 5 to 100m Belden 8281 or 1694A (to 5.5MHz)
 $< \pm 0.15dB$ for 100 to 300m Belden 8281 or 1694A (to 5.5MHz)
Differential Gain: $< 0.25\%$ 0 to 300m (for single load)
Differential Phase: $< 0.19^\circ$ 0 to 300m
C/L gain inequality: $< \pm 0.1\%$ for all cable lengths
C/L Delay: $< \pm 2nsec$
Output isolation: $> 42dB$ to 10MHz, $> 32dB$ to 30MHz
Output return loss: $> 40dB$ to 30MHz
Noise performance: $< -68dB$ RMS NTC7 weighting, $< -60dB$ RMS 15kHz to 5.5MHz

Electrical:

Voltage: +12V DC
Power: 2.5W

Physical:

Number of slots: 1

►►► Ordering Information

7700ADA-ETSI High Amplitude Analog Distribution Amplifier (1x4)

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

