

7700ADA-ETSI

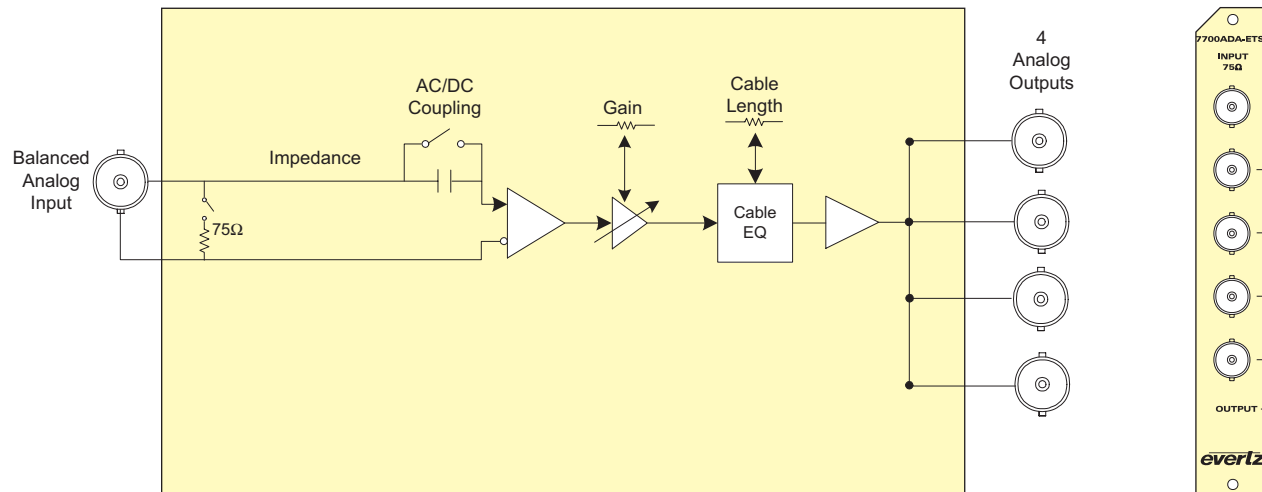
High Amplitude Distribution Amplifier

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:		Outputs:	Electrical:
Standards:	Any analog waveform up to $\pm 3.5V$ and 30MHz bandwidth	Number of Outputs: 4 Per Card	Voltage: +12V DC
Connector:	1 BNC per IEC 61169-8 Annex A	Connector: BNC per IEC 61169-8 Annex A	Power: 2.5W
Common mode range:	> 6V p-p	Output impedance: 75 Ω	Physical (number of slots): 350FR: 1 7700FR-C: 1 7800FR: 1
CMRR:	> 60dB to 1kHz	Gain control range: $\pm 6dB$	
Signal amplitude:	Up to $\pm 3.5V$	Freq. Response: < $\pm 0.05dB$ no equalization (to 5.5MHz)	
Cable equalizer:	0 to 300m of Belden 8281 or 1694A cable	< $\pm 0.09dB$ for 5 to 100m Belden 8281 or 1694A (to 5.5MHz)	
Impedance:	75 Ω	< $\pm 0.15dB$ for 100 to 300m Belden 8281 or 1694A (to 5.5MHz)	
Coupling:	AC or DC (jumper selectable)	Differential Gain: < 0.25% 0 to 300m (for single load)	
Return loss:	> 40dB to 10MHz, > 25dB to 30MHz	Differential Phase: < 0.19° 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	

►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 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