

7700DA-DS3

DS3 Distribution Amplifier



[Block Diagram and Rear Panel View](#)



The 7700DA-DS3 Distribution Amplifier provides automatic coaxial cable equalization, reclocking and signal distribution of DS3 (44.736 Mb/s) signals. The 7700DA-DS3 accepts a B3ZS-encoded Alternate Mark Inversion (AMI) input signal and provides four reclocked outputs.

The 7700DA-DS3 occupies one card slot and can be housed in either a 1RU frame that will hold up to 3 modules or a 3RU frame that will hold up to 15 modules.

Features

- Supports DS3 (44.736 Mb/s)
- Accepts B3ZS AMI input signals
- Adaptive cable Equalization for up to 300m of high quality 75 ohm cable
- Signal reclocking and optional jitter attenuator
- Output wave shaping for DS3 standards compliance
- Hi/Low output amplitude setting for Long/Short cable lengths
- Loss of signal (LOS) detection/indication
- Outputs 1s pattern generation upon loss of input signal
- Output drive level control for enhanced distance
- Transformer coupled inputs/outputs
- Input/output transient protection

Specifications

Inputs:

Standards:	DS3 (44.736Mb/s B3ZS)
Connector:	Isolated BNC per IEC 169-8
Impedance:	75Ω (nominal)
Equalization:	Automatic to 300m with Belden 8281 cable
Return Loss:	> 15dB to 50MHz

Outputs:

Connectors:	BNC per IEC 169-8
Impedance:	75Ω (nominal)
DC Offset:	0V nominal
Return Loss:	> 15dB to 50MHz
WB Jitter:	< 0.1UI

Electrical:

Voltage:	+12 VDC
Power:	6 Watts

Ordering Information:

7700DA-DS3:	DS3 Distribution Amplifier
7700P (3RU rear connector plate) shipped standard with module	

7700DA-DS3 Block Diagram

