

1550 EDFA

Erbium Doped Fiber Amplifier MUL-EDFA-1550

The Netceed 1550nm Erbium Doped Fiber Amplifier (EDFA) is a low noise 1550nm optical amplifier, designed using advanced optical principles. The hot pluggable, redundant power EDFA is designed to amplify 1550nm optical signals to increase the optical transmission distance over fiber, and can be used in conjunction with the Netceed 1550nm optical transmitters.

The MUL-EDFA-1550 is flexible enough to perform in numerous upstream and downstream applications, including supertrunk transmission, hub interconnects and 1310/1550nm overlays. All internal laser parameters and monitoring functions are under microprocessor control. The front panel LCD displays status information related to laser operation, temperatures, laser pump status, comprehensive alarm information, as well as SNMP configuration.

Features

- Advanced 32 bit processor, with automatic monitoring circuitry. Accurately monitors and controls the optical output power and various parameters of the pump laser, ensures stable optical output power and can effectively extend the working life of the pump laser.
- Front panel LCD display shows all status parameters and provides ability to set parameters on the EDFA
- 1RU standard
- Equipped with standard IEEE802.3 10Base-T Ethernet interface and RS232 interface, for network management monitoring and control console.
- Dual redundant power supplies – Hot Pluggable
- Adjustable output optical power attenuation
- Optional 48VDC power



Product Specifications

Item	Unit	Technical Parameter	Notes
Operating bandwidth	nm	1535 - 1565	
Optical input power range	dBm	-5 - +10	
Optical output power	dBm	18, 20 or 24	
Output power stability	dBm	± 0.2	
Noise figure	dB	≤ 5.0	Optical input power 0dBm
Return loss - Input port	dB	≥ 45	
Return loss - Output port	dB	≥ 45	
Optical connector type		SC/APC	
Power supply voltage	V	110V - 240VAC (50/60 Hz)	Hot pluggable, redundant power Available with 48VDC option
Power consumption	W	< 30	
Operating temperature range	°C	-5 - +55	23 - 130°F
Storage temperature range	°C	-30 - +70	-22 - 158°F
Max operating/storage relative humidity	%	95	No condensation
Dimensions	mm	483 (L) x 340 (W) x 44 (H)	19in x 13.4in x 1.75in