



Multicom 1550nm EDFA

Key Features

- Flexible selection of optical output powers and number of output ports
- High-gain, high-power and low-noise figure
- Reliable 980nm or 1480nm pump laser with very lower power dissipation
- Microprocessor controlled power, temperature, laser current and other key parameters
- Easy operation and installation with back-lit LCD display on front panel
- RJ-45, RS-232 communication ports, with SNMP option available
- Dual redundant power supplies in a 19-inch (1 RU) standard chassis



Description

The Multicom 1550nm Erbium Doped Fiber Amplifier (EDFA) is a low noise 1550 nm optical amplifier, designed using advanced optical principles. The EDFA is designed to amplify 1550nm optical signals to increase the optical transmission distance over fiber, and can be used in conjunction with the Multicom 1550nm optical transmitter. The product offering is flexible enough to perform in numerous upstream and downstream applications, including supertrunk transmission, hub interconnects, and 1310/1550 nm 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 where applicable.

The units are packaged in slim 1.75-inch high (1RU), 19-inch aluminum rack-mounted enclosures. Each unit is fitted with dual redundant self-contained power supplies with 90-265VAC inputs.

MUL-EDFA-1550-X-x

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Multicom 1550nm EDFA

Product Specifications

Description

The Multicom Erbium Doped Fiber Amplifier (EDFA) is a low noise 1550nm optical amplifier, designed using advanced optical principles - and built to meet a wide range of network applications.

Technical Specifications

Specifications		Min	Typ	Max	Notes
Optical	Operation wavelength (nm)	1540		1560	
	Input power range (dBm)	0	3	10	
	Total output power (dBm)	13		24	
	Each port output power (dBm)	10		24	
	Number of output ports	1		8	
	Noise figure (dB)	4.5		5.5	Pin=0dBm
	Gain flatness (dB)		0.8	1.0	Each output port
	Polarization dependence loss (dB)		0.1	0.4	
	Polarization dependence gain (dB)			0.4	
	Polarization mode dispersion (ps)			-40	
	Connector type	SC/APC			FC/APC optional
General	SNMP network interface	RJ45			
	Communication interface	RS232			
	Power supply (V)	90		265	-48 VDC optional
	Power consumption (W)			170	
	Working temperature (°C)	-5		50	23 - 122°F
	Storage temperature (°C)	-40		85	-40 - 185°F
	Operating relative humidity (%)	5		95	
	Size (W x D x H in inches)	19 x 14.25 x 1.75			1 RU

Product Series

Part#	Output Power (dBm)	Input Power (dBm)		Noise Fig (dB)
		Input Range	Typical	
MUL-EDFA-1550-17-1	≥17 (50mw)	0~+10	>+3	<4.5
MUL-EDFA-1550-24-1	≥24 (250mw)	0~+10	>+3	<5.5

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