



Multicom 1550nm High Power EDFA



Key Features

- 2RU chassis
- Total output power >4,000mW
- Up to 64 optical ports
- Low noise, high performance
- Interactive front panel LCD displays system parameters and alarm status
- Front panel RS232 and RJ45 ports for serial communication and SNMP network interface
- High performance to price ratio
- Auto-off when optical power not present
- Optional internal WDM combining the 1490nm and 1550nm wavelengths

Description

The Multicom 1550nm Erbium Doped High Power EDFA is a low noise 1550nm optical amplifier 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. With an optional built-in WDM, the MUL-EDFA dramatically reduces component count and improves system performance while saving costs.

With low noise and high linearity, this High Power EDFA can be used in the transmission of video, voice and data signals. It offers a flexible and low-cost solution for CATV large area coverage of metropolitan and medium-sized cities.

The MUL-EDFA-1550 series is equipped with APC, ACC, ATC control, and has superior heat-dissipation which guarantees a durable and highly reliable pump laser.

MUL-EDFA-1550-w-x-y-z

Output power (dB) # of ports Input power WDM (optional)

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Multicom 1550nm High Power EDFA

Product Specifications

Description

The Multicom High Power 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)	26		36	
	Each port output power (dBm)	10		22	
	Number of output ports	8		32	
	Noise figure (dB)	4.5		6.5	Pin=0dBm
	Polarization dependence loss (dB)			0.3	
	Polarization dependence gain (dB)			0.4	
	Polarization mode dispersion (dB)			0.5	
	Pump power leakage (dB)			-30	
	Input optical isolation (dB)	40			
	Output optical isolation (dB)	30			
	Echo loss (dB)	50			
	Connector type	SC/APC			
General	SNMP network interface	RJ45			
	Communication/serial interface	RS232			
	Power supply (V)	100		250	-48 VDC optional
	Power consumption (W)	50		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 3.5			2 RU

Product Series

Part#	Total Output Power	Number of Output Ports	Each Port Output Power	Connector
MUL-2RU-EDFA-1550-30-16	≥30 (1000mw)	16	≥16.0 dBm	SC/APC

MUL-EDFA-1550-w-x-y-z

Output power (dB) # of ports Input power WDM (optional)

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