



# High Power 1550nm EDFA

## Key Features

- » Uses Er Yb co-doped double-clad fiber technology
- » Output ports: 4 (1 to 8, optionally)
- » Optional: Internal WDM ports configurations for GPON
- » Total output power from 25 to 35dBm
- » Low noise figure: <5dB when input is 0dBm
- » Advanced 32 bit processor, with automatic monitoring circuit. Accurately monitors and controls the optical output power and various parameters of the laser, ensures stable optical output power and can effectively extend the working life of the laser.
- » Front panel LCD Status Display shows all status parameters and provides ability to set parameters
- » 1RU standard 19" rackmount cabinet, equipped with standard IEEE802.3 10Base-T Ethernet interface and RS232 interface, for network management monitoring and control console



## Description

The Multicom High Power 1550nm Erbium Doped 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 transmitters.

Equipped with up to eight output ports, and with low noise and high linearity, this High Power EDFA can be used in the transmission of video, voice and data signals making it the ideal optical amplification solutions for long links, redundant rings, blast and split, and other applications. It offers a flexible and low-cost solution for CATV large area coverage of metropolitan and medium-sized cities.

### MUL-EDFA-V-X-XX

┌ Total Output Power (dBm) - 25-35  
└ Output Port(s) - 1 to 8

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## Product Specifications

### Technical Specifications

Item	Unit	Technical Parameter	Notes
Operating bandwidth	nm	1545 ~ 1565	
Optical input power range	dBm	-5 ~ +10	
Maximum optical output power	dBm	35	
Output power stability	dBm	±0.5	
Noise figure	dB	≤5.0	Optical input power 0dBm, λ=1550nm
Return loss - Input port	dB	≥ 45	
Return loss - Output port	dB	≥ 45	
Optical connector type		SC/APC	
C/N	dB	≥ 50	Test conditions according to GT/T 184-2002
C/CTB	dB	≥ 63	
C/CSO	dB	≥ 63	
Power supply voltage	V	110V - 240VAC (50/60 Hz)	50 Hz
Operating temperature range	°C	-10 - +42	14 - 108°F
Max operating/storage relative humidity	%	95	No condensation
Storage temperature range	°C	-30 ~ +70	-22 - 158°F
Dimensions	mm	483 (L) x 475 (W) x 44 (H)	19in L x 18.7in W x 1.75in H

### Model # and Power

Model #	Total Output Power (dBm)	Output Ports	Output Power per Port (dBm)
MUL-EDFA-V-4-25	25	4	18
MUL-EDFA-V-4-26	26	4	19
MUL-EDFA-V-4-27	27	4	20
MUL-EDFA-V-4-28	28	4	21
MUL-EDFA-V-4-29	29	4	22
MUL-EDFA-V-4-30	30	4	23
MUL-EDFA-V-4-31	31	4	24
MUL-EDFA-V-8-27	27	8	16
MUL-EDFA-V-8-28	28	8	17
MUL-EDFA-V-8-29	29	8	18
MUL-EDFA-V-8-30	30	8	19
MUL-EDFA-V-8-31	31	8	20
MUL-EDFA-V-8-32	32	8	21
MUL-EDFA-V-8-33	33	8	22
MUL-EDFA-V-8-34	34	8	23
MUL-EDFA-V-8-35	35	8	24

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