

EYDFA-MP



Multiple Ports EYDFA, up to 40 dBm

The Optilab EYDFA-MP series are high-power, reliable optical amplifiers with up to +40 dBm and up to 64 output ports. Utilizing an internal splitter enclosed in a single 2RU housing, EYDFA-MP is ideal for RFOG, HFC, and CATV applications. The EYDFA-MP series uses multimode laser pumping, all-fiber combiner and Er/Yb double-clad, fiber technologies to achieve high output power in conjunction with low cost. Constructed with long term uninterrupted service in mind, the Optilab EYDFA-MP series features a space saving 2U rackmount housing that conserves on cost and maintenance, with dual 110/220VAC or 48VDC redundant power supplies.

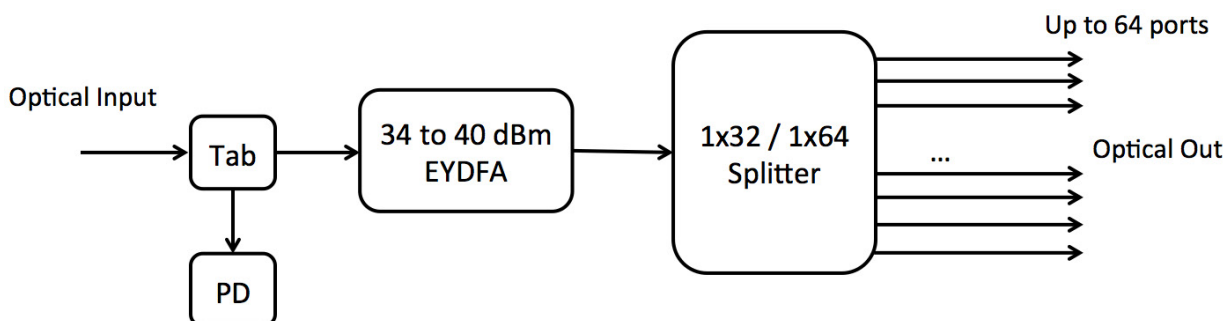
Features

- Up to 64 output ports
- 34 dBm to 40 dBm total output power
- Noise figure of 5 dB
- Front panel optical connectors
- Remote control via USB
- Cost-effective, high density
- 2U housing rackmount

Applications

- CATV installation
- RFOG system
- HFC networks
- Satellite signal distribution

Functional Diagram



Multiple Ports EYDFA, up to 40 dBm

OPTIONS

EYDFA-xx-MP-yy

xx Output Power Level

yy # of Output Ports

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

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General Specifications	
Operating Wavelength Range	1540 nm to 1570 nm
EDFA Output Power Level	+34, +37, +40 dBm available
EDFA Input Power	-5 to +10 dBm
Number of Ports	32, 64 ports available, others optional
Output Power Per Port	See chart below
Port To Port Variation	±0.3 dB max.
Noise Figure (NF)	5.0 dB typ.
Optical Return Loss	50 dB min.
Input/Output optical Isolation	30 dB min.
Output Power Stability	±0.2 dB over 8 hours max.
Input / Output Fiber Type	Corning SMF-28
Mechanical Specifications	
Operational Temperature Range	-10 °C to +60 °C standard
Storage Temperature Range	-40 °C to +70 °C
Power Supply	110 – 220 V AC, 43 – 63 Hz AC; or 48 V DC
Optical Connectors	Duplex SC/APC standard; or LC/APC available for 64 ports
Power Consumption	100 W max.
Housing Dimensions	2RU 19"(W) x 17.5"(D) x 3.5"(H)
Control / Monitoring	Laser Temperature, output power
Remote Interface	LabVIEW, USB
Alarm	Over Temperature, Over Current

EYDFA-MP Configuration			
Part Number	Total Power	Number of Ports	Output Power Per Port
EYDFA-34-MP-32	+34 dBm	32	+16 dBm
EYDFA-34-MP-64	+34 dBm	64	+13 dBm
EYDFA-37-MP-32	+37 dBm	32	+18.5 dBm
EYDFA-37-MP-64	+37 dBm	64	+16 dBm
EYDFA-40-MP-64	+40 dBm	64	+18.5 dBm