

# EDFA-C-XX-PM-B



## DEVICE

## Erbium-Doped Fiber Amplifier, C-Band, Benchtop w/PM Output

## OVERVIEW

The Optilab EDFA-C-XX-PM-B Erbium-Doped Fiber Amplifier (EDFA) is a Polarization Maintaining (PM) high-gain, versatile amplifier designed for optical communication and other general-purpose optical applications. EDFA-C-XX-PM-B provides optical gain of up to 30 dB, while maintaining low noise figure (NF) of 5 dB. The EDFA-C-XX-PM-B amplifier produces optical output levels from +17 dBm to +21 dBm with an input power level range from -10 dBm to +7 dBm. This product features adjustable output level power via ACC through the front panel and software control through USB. Contact Optilab for more information.

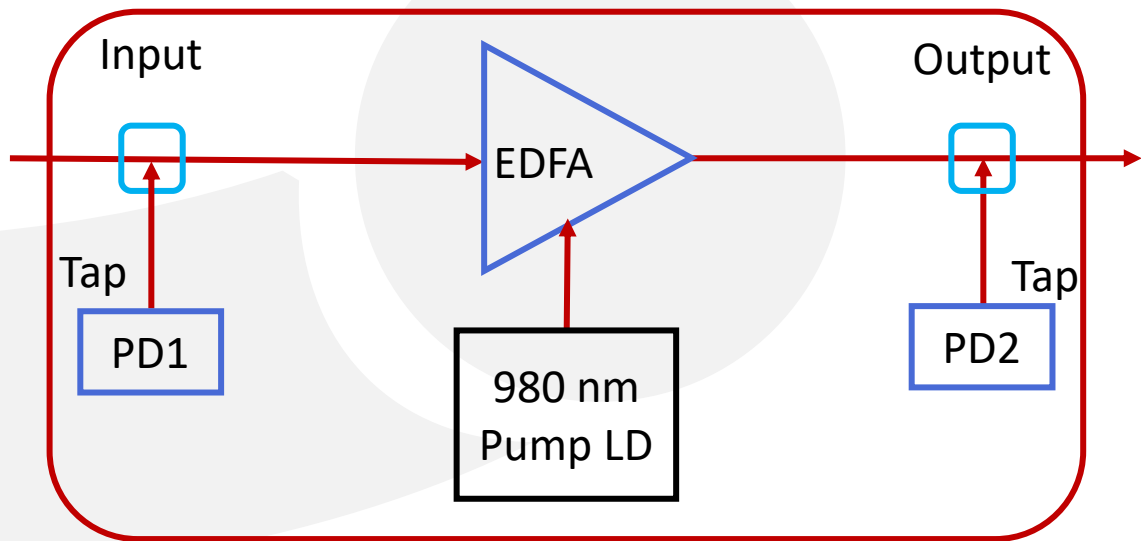
## FEATURES

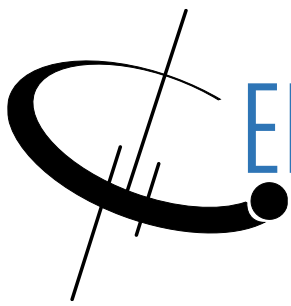
- Up to +21 dBm output power
- Optical gain up to 30 dB
- Software control through USB
- Single Stage Amplification
- PM Output
- Input power level range: -10 dBm to +7 dBm
- Automatic Current Control (ACC) standard

## USE IN

- Optical Communication
- Test and measurement
- General-purpose optical amplifier

## FUNCTIONAL DIAGRAM





# EDFA-C-XX-PM-B

## SPECIFICATIONS

### OPTICAL

Operating Range	1528 nm - 1563 nm
Output Power Levels	+17 dBm to +21 dBm
Input Power Range	-10 dBm to +7 dBm
Optical Gain	Up to 30 dB @ -10 dBm input
Noise Figure (NF)	< 5.0 dB typ. @ -10 dBm input
Number of Outputs	1 output standard, up to 32 ports
Optical Return Loss	50 dB min.
Input/Output Optical Isolation	30 dB min.
Polarization Mode Dispersion	1.0 ps max.
Polarization Dependent Gain	0.10 dB max.
Output Power Stability	0.10 dB over 8 hours
Input/Output Fiber Type	PANDA PM

### MECHANICAL

Operating Temperature	-10°C to +60°C
Storage Temperature	-40°C to +70°C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	60 W max.
Output Level Control	Pump Lasers Current Adjustment
Monitoring	Pump Laser Temperature
Computer Interface	LabVIEW via USB
Display	Input/Output Power Level, TEC Temperature
Alarms	Temperature and Input Power
Optical Connectors	FC/APC., Other Option Available
Housing Dimensions	250mm (W) x 300mm (L) x 100mm (H)

## ORDERING OPTIONS

### EDFA-C-XX-PM-B

**XX** Output Power Level: +17 dBm to +20 dBm





# EDFA-C-XX-PM-B

## RELATED RACKMOUNT

- **EDFA-C-XX-PM-R**



The Optilab EDFA-C-XX-PM-R is a Polarization Maintaining (PM) high-gain EDFA in a 1U rackmount housing.