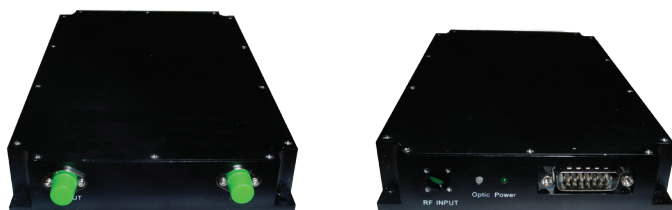


# Erbium Doped Fiber Amplifier, Module

The Optilab EDFA-PR Pre-Amp EDFA Module is a high-gain EDFA module for amplifying low input level signals.

EDFA-PR Erbium Doped Fiber Amplifier Module



## Product Description

The Optilab EDFA-PR Pre-Amp EDFA Module is a high-gain EDFA module for amplifying low input level signals. It is an ideal building block for photonic subsystems and OEM system integration. Using a high gain design, this module provides over 25 dB gain with a 4.5 dB noise figure. The EDFA-PR is designed to amplify signal with a low input level as low as -40 dBm. Pump laser protection and alarms are equipped to ensure the reliability and safety of the device. The module requires a single  $\pm 12$  V DC power supply for operation that comes included with each EDFA-PR.

## Features

- High gain
- Low noise figure
- Designed for low input level
- RS-232 available for remote control
- Wide wavelength operation range
- $\pm 12$  V power supply
- Three year warranty

## Applications

✓ HFC    ✓ FTTH    ✓ PON    ✓ Deep Fiber Applications

## PRODUCT SPECIFICATIONS

### Optical Specifications

Operating Range	1528 nm to 1563 nm
Output Power Levels	+14 dBm @ 0 dBm typ.
Optical Gain	25 dB min. @ -40 dBm input
Noise Figure (NF)	4.5 dB typ., 5.0 dB max.
Optical Return Loss	50 dB min.
Input/Output Optical Isolation	30 dB min.
Polarization Mode Dispersion	0.1 ps max.
Polarization Dependent Gain	0.3 dB max.
Input Power Range	-40 dBm to +5 dBm
Output Power Stability	0.25 dB over 8 hours
Input/Output Fiber Type	Corning SMF-28

### Mechanical Specifications

Operating Temperature	-10° to -60° C
Storage Temperature	-50° C to +70° C
Power Supply	+12 V DC, 1 A max.
Power Consumption	12 W max.
Connector (Power & RS-232)	DB-15 Female
Display	LEDs for On/Off, Power
Remote Control	RS-232 for laser control, status monitoring
Optical Connectors	FC/APC, or customer specified
Accessories Included	110 V - 240 V AC Adaptor and power cable
Housing Dimensions	210 mm x 125 mm x 28 mm
Housing	Precision Machined Aluminum, Anodized

## Ordering Information

**EDFA-PR-25**

25 dB Gain