

# C-Band Erbium-Doped Fiber Amplifier

This erbium-doped fiber amplifier operates on the C band. It features low noise, high output, and high gain.



## Product Overview

### C-Band Erbium-Doped Fiber Amplifier

This C-band Erbium-doped fiber amplifier (EDFA) is designed for high-performance optical communication, offering versatile configurations including pre-amplifier, booster, and in-line amplifier options. Engineered for low noise figures and high gain, it ensures signal integrity in demanding environments. With an intelligent MPU monitor and a user-friendly interface, it is an ideal solution for long-distance transmission and CATV systems.

## Performance Metrics

### Key Performance Metrics

**4.3 dB**

Noise Figure

**0.5 dB**

Max Polarization Dependent Gain

**30 dB**

Input/Output Isolation

## Technical Specifications

### Operating Parameters

Parameter	Min	Max
Operating Wavelength (nm)	1530	1563
Optical Input Power (dBm)	-50	-10
Optical Output Power (dBm)	-18	0
Side-Mode Suppression Ratio (dB)	35	52

## Features and Connectivity

### Device Configurations

- Pre-amplifier
- Booster
- In-line amplifier

### Features

Intelligent MPU Monitor, Low Noise Figure, High Output, High Gain, RS485 Interface, RS232 Network Interface

## Environmental and Physical

Operating Temperature Range: -5°C to 55°C

Fiber Type: SMF-28e