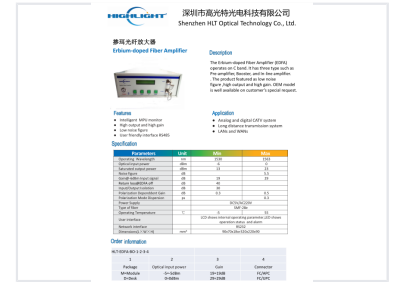


# C-Band Erbium-Doped Fiber Amplifier

The erbium-doped fiber amplifier operates on the C band and is available in pre-amplifier, booster, and in-line amplifier types. This amplifier features low noise figure, high output, and high gain.



## Overview

### High-Performance C-Band EDFA

The Erbium-doped Fiber Amplifier (EDFA) is designed for high-performance operation within the C-band. Available in Pre-amplifier, Booster, and In-line configurations, this unit features a low noise figure, high output power, and high gain. It is an ideal solution for long-distance transmission systems, CATV networks, and LAN/WAN infrastructures.

## Key Features

### Core Capabilities

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

## Optical Performance

### Performance Metrics

**1530 nm**

Min Wavelength

**1563 nm**

Max Wavelength

**5.5 dB**

Max Noise Figure

**29 dB**

Max Gain

### Technical Specifications

Parameter	Value/Range
Optical Input Power	-6 to 0 dBm
Saturated Output Power	13 to 23 dBm
Return Loss (EDFA Off)	> 40dB
Input/Output Isolation	> 30dB
Polarization Dependent Gain	0.3 to 0.5 dB
Polarization Mode Dispersion	0.3 ps

## Physical & Environmental

### Physical Specifications

Attribute	Specification
Fiber Type	SMF-28e
Power Supply	DC5V / AC220V
Operating Temperature	-5°C to 55°C
Dimensions	90x70x18mm or 320x220x90mm

## System Integration

### Interfaces

- User Interface: LCD (Parameters) & LED (Status/Alarm)
- Network Interface: RS232
- Control Interface: RS485

## Applications

### Typical Applications

Analog CATV • Digital CATV • Long Distance Transmission • LANs • WANs