

1550nm Multi-Output EDFA Fiber Amplifier for PON and CATV

This 1550nm multi-output fiber amplifier is designed for PON and CATV applications, using EDFA technology to boost optical signals. It features multiple output ports for signal distribution, ensuring high performance and reliability in optical communication networks.



ADDITIONAL IMAGES



Product Overview

High-Performance 1550nm EDFA for PON & CATV

This series of erbium-doped fiber amplifiers (EDFA) is specifically designed for 1550nm external modulated optical transmitters, making it an ideal solution for cable TV signal transmission. By combining high-quality erbium-doped fiber with high-power pump sources and advanced control circuitry, it achieves high gain and high output power while maintaining an exceptionally low noise figure. Its robust design supports transmission distances exceeding 100km when used in front-enlarge and relay-enlarge configurations.

Key Performance Metrics

Performance Highlights

1550 nm

Operating Wavelength

33 dBm

Max Output Power

100 km

Transmission Range

Optical Specifications

Optical Performance Data

Parameter	Symbol	Min	Max	Unit
Working Wavelength	λ	1530	1565	nm
Saturated Output Power	P_o	10	33	dBm
Input Power	"»	-10	+10	dBm
Noise Figure	NF	-	4.6 (@0dBm)	dB

Technical Features

Core Features

- Unique optical design with double-pump laser structure
- Real-time parameter display on front panel
- Integrated APC (Auto Power Control) circuit
- Integrated ATC (Auto Temperature Control) circuit
- High-quality switching power supply
- Auxiliary cooling fan and heat sink for thermal management
- Network management function compatibility

Connectivity & Interface

Front Panel Indicators

Pump 1 Status • Pump 2 Status • Alarm • AGC • Input Status

Available Interfaces

RS232, RJ45, Dual Power Inputs, Multi-Output Ports, COM Port