

# CATV 1550nm EDFA Fiber Optic Amplifier

This CATV 1550nm EDFA fiber optic amplifier is designed for cable television applications. The amplifier boosts optical signals in CATV networks, ensuring signal integrity and extending transmission distances.



## ADDITIONAL IMAGES



## Product Overview

### High-Performance CATV 1550nm EDFA

The YOA-1500nm series Erbium-Doped Fiber Amplifier (EDFA) is a high-output solution designed for 1550nm CATV signal transmission. Engineered with high-quality erbium-doped fiber and a double-pump laser structure, it delivers exceptional stability, low noise, and high gain. This unit is ideal for long-distance transmission, capable of covering over 100km when used in front-enlarge and relay-enlarge configurations.

## Optical Specifications

### Saturated Output Power

**10 dBm**  
Min

**33 dBm**  
Max

### Input Power Range

**-10 dBm**  
Min

**10 dBm**  
Max

### Working Wavelength

1550 nm

### Noise Figure

4.6 dB @ 0dBm Input

## System Features

### Key Features

- Double-pump laser structure for high output and low noise
- Real-time monitoring of input/output power and pump laser parameters
- Network management software support via front-end computer
- Advanced APC (Auto Power Control) and ATC (Auto Temperature Control) circuits
- High-quality switching power supply with auxiliary cooling
- Wide voltage range adaptability

### Interface Ports

RJ45, USB, Optical Input, Optical Output