

# 1550nm CATV Optical Amplifier

This 1550nm CATV optical amplifier provides low noise and high output for CATV signal transmission. It uses erbium-doped fiber and a high-power pump source to ensure stability and can transmit signals over 100km.



## ADDITIONAL IMAGES



## Product Overview

### High-Performance 1550nm EDFA

This 1550nm CATV Optical Amplifier is a high-power Erbium-Doped Fiber Amplifier (EDFA) engineered for reliable, low-noise signal transmission in cable television networks. Featuring a robust double-pump laser structure and advanced APC/ATC control circuits, it ensures exceptional stability and signal integrity over distances exceeding 100km. Designed for professional infrastructure, it includes comprehensive network management capabilities and redundant power systems.

## Optical Performance

### Saturated Output Power

**10 dBm**

Min

**33 dBm**

Max

Working Wavelength	1530 - 1565
Input Power Range	-10 to +10 dBm
Noise Figure	4.6 dB

## System Features

### Control & Connectivity

- RS232 Port
- RJ45 Network Port
- Front-panel display

### Hardware Infrastructure

Dual power supply • Redundant design • Active cooling fans • Rack-mountable

### Core Technologies

Double-pump laser structure, APC (Auto Power Control), ATC (Auto Temperature Control), Network management support, Real-time monitoring