

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