

Erbium Ytterbium Doped Fiber Amplifier (EYDFA)



Features & Benefits

- Input power sensitivity -10 to +10dB
- SNMP Management
- Dual input for redundancy
- Swappable dual power supply unit



Overview

PPC's high power Erbium Ytterbium Doped Fiber Amplifier (EYDFA) is characterized by low noise and high linearity performance to meet the most demanding requirements of CATV and FTTx applications. It offers a flexible and low-cost solution for CATV large area coverage of large and medium-sized cities, mainly used in FTTH, FTTB, DBS, MMDS and FTTx PON architectures. The device has a built-in CWDM multiplexer, which will enable the 1490 / 1310nm data stream of the OLT and ONU to be combined into a single fiber transmission through EDFA, thereby reducing the number of devices and improving the system index and reliability. Our EDYFA provides a flexible and low-cost solution for triple play and fiber-to-the-user (FTTU).

High Quality :

Former-class pump uses 980 nm and after-class pump uses 1480 nm. Power is optimized by software to minimize the NF of the EDFA.

Reliability :

The 2U standard rack has a built-in high-performance switching power supply and can work at 85 - 265 VAC city network voltage. There is an optional DC48V power supply (reservations required), and the chassis has automatic cooling temperature control.

Intuitive :

The EDYFA is equipped with a microprocessor that monitors the working state of the laser and an LCD window display that displays the operating parameters.

Network Type :

The select all-piece status monitoring transponder is guaranteed to meet the national standard and be compatible with the SCTE HMS standard, enabling network management monitoring capabilities.

Power Plug :

The aluminum structure, using plug switching power supply, allows for heat dissipation and replacement.

Application

- 1540~1563nm operating bandwidth
- Total output power 27~40dBm
- Low noise figure (Typ ≤ 4.5 dB, Max ≤ 5.0 dB)
- 8~64 input optical ports, multiplex the WDM 1310/1490nm
- Output power can be adjusted
- Optional dual optical input, built-in 2 × 1 optical switch
- Credit-time function
- Can be compatible with any FTTx PON technology: EPON/ GEPON, GPON, Comprehensive SNMP management
- Efficient space, simple and reliable in construction/maintenance
- Remote management via SNMP and WEB Management

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Technical Data

Specification	Value
CATV working wavelength	1540~1563nm
OLT wavelength	1310~1490nm
Input Port	Dual Input (SC/APC)
Number of OLT in	8 /16 ports
Number of output port	8 /16 ports
Output power of each port	13~23dBm
Total output power	33-40dBm
CATV input optical power	-10~+10dBm (Optional \geq +3~+10)
Output power adjustment range	-10~0dBm
Difference of each output power	-0.5~+0.5dBm
Noise figure (pin=0dBm)	4.5~5.0dB
Polarization dependence loss	0.3dB
Polarization dependence gain	0.4dB
Polarization mode dispersion	0.3ps
Pump leakage power	-30dBm
Connector type	FC/APC
SNMP	RJ45
Supply voltage	90~265V (220VAC)
	30~72V (-48VDC)
Power consumption	150W
Operating Temperature	-5~65°C
Storage temperature	-40~80°C
Size	19*14.7*3.5" (2U)
Packing size	60*56*24cm

Ordering Information

Part Number	Description
PAY210819	EYDFA 1550nm, 8*19dBm dual AC power supply (Dual laser pump) SNMP module with Dual input
PAY211619	EYDFA 1550nm, 16*19dBm dual AC power supply (Dual laser pump) SNMP module with Dual input

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