

Erbium Doped Fiber Amplifier



Features & Benefits

- JDSU-Lumentum Dual pump
- Working wavelength – 1550 nm
- Input power sensitivity -5 dB to +10 dB
- SNMP management
- Swappable Dual power supply unit



Overview

PPC's Erbium Doped Fiber Amplifier (EDFA) is an optical amplifier that is used to boost optical signals carried through a fiber optic communication system. The power of a data transmitter may be boosted with a high-power EDFA before entering a long fiber span, or a device with large losses, such as a fiber optic splitter. It operates at 1550 wavelength, which is in line with the low-loss band of fiber, where telecom fibers have their loss minimum. The core element of a fiber amplifier is a piece of fiber doped with a rare earth element, which can provide laser amplification via stimulated emission when it is optically pumped with other light injected into the fiber.

PPC offers a reliable optical power output stabilizing circuit and laser optical cooling to control the temperature in the circuit. This guarantees optimum performance and long life. The microprocessor has laser condition monitoring, digital display, fault warning, network management and various other functions.

Components

- **High quality:** Former-class pump uses 980 nm; After-class pump uses 1480 nm; Power is legitimately optimized by software to minimize the NF of the EDFA (could be comparable with the low-power optical amplifier); IT can make the system obtain superior CNR
- **Reliability:** The 19 inch 1U standard rack has a built-in high-performance switching power supply and can work at 85~265Vac City Network Voltage; Also has an optional DC48V power supply (reservations required); Has chassis cooling automatic temperature control
- **Intuitive:** The laser is the most expensive machine component; The machine, equipped with microprocessor, monitors the working state of the laser; The panel LCD window 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; It enables network management monitoring capabilities
- **Power Plug:** Aluminum structure using plug switching power supply; Allows for heat dissipation and replacement

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Technical Data

Specification	Value
Wavelength (nm)	1545~1555
Optical input power (dBm)	-3~+10
Nominal optical input power (dBm)	+3
NF(dB) (+3 dBm,@1550nm)	3.8~5.5
Gain Flatness (dB)	<±0.3
Optical output power stability (dB)	<±0.5
Polarization Sensitivity (dB)	<0.2
Polarization mode dispersion (ps)	<0.5
Optical connector (IN/OUT)	FC/APC
Working pump quantity (N)	1~3
Saturated output power (dBm)	13~33
Power source (Vac)	115~265
Power source (Vdc)	48
Working temperature (°C/°F)	0 to 50 / 32 to 122
Size(mm)	482.6×387×44

Ordering Information

Part Number	Description
EDFA1550DP4	EDFA 1550nm, 4*16dBm with dual AC power supply (Dual laser pump) SNMP module
EDFA1550DP8	EDFA 1550nm, 8*19dBm with dual AC power supply (Dual laser pump) SNMP module
EDFA1550DP16	EDFA 1550nm, 16*19dBm with dual AC power supply (Dual laser pump) SNMP module

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