NUPHOTON TECHNOLOGIES

Rack mount EDFA

# NP2000PR Series Rack mount EDFA

The NP2000PR is an Erbium doped fiber amplifier in 1U rack mount chassis for the C band, L band or combined C& L band applications.

NP2000PR series products can be operated through the front panel assembly or from the RS232 interface accessible through the DB9 male connector on the rear (or optionally on the front) panel of the chassis. Optional Ethernet interface is available.

User-friendly LCD interface, alarm indicator LEDs as well as RS232 or Ethernet interface allows easy management and monitoring of the EDFA. This unit is available with multiple output port configuration with up to 32 output ports.

NP2000PR products are CDRH certified for laser safety (IEC 60825-1 & IEC 60825-2) and TUV certified for electrical safety (IEC 60950-1) and comply with Telcordia GR1312 requirements.

| Features | Applications |
|---|---|
| ▪ Wide Signal Bandwidth<br>▪ Excellent Gain Flatness<br>▪ User-friendly Software<br>▪ Dynamic Gain & Power Control | ▪ FTTH<br>▪ DWDM, Telecom, Datacom<br>▪ CATV<br>▪ Metro & Long Haul<br>▪ Test & Measurement<br>▪ LIDAR / LADAR, R&D<br>▪ Free-Space Optical (FSO) Communication |

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# NP2000PR Rack mount EDFA

## Optical Performance

| Parameter | Min. | Typ. | Max. | Units |
|---|---|---|---|---|
| Output power<br>(For higher power versions, see: NP3000PR) | - | - | 13, 16, 18, 20, 23, 27 | dBm |
| Pump wavelength | - | 980/1480 | - | nm |
| Operating wavelength (C-band) | 1528 | - | 1563 | nm |
| Operating wavelength (L-band) | 1568 | - | 1603 | nm |
| Polarization sensitivity | - | - | 0.3 | dB |
| Polarization mode dispersion | - | - | 0.3 | ps |
| Temperature dependent gain | - | 0.5 | 1.0 | dB |
| Temperature range of operation* | -10 | 25 | 55 | °C |
| Input voltage rating | 100/120/220/240 VAC 47-63 Hz, 48 VDC | | | |
| Power dissipation (for 30dBm operation) | - | - | 40 | W |
| Input/Output Connectors | Customer specific | | | |

* Extended temperature range available

## Control and Monitoring through Front Panel

| Display Name | Description |
|---|---|
| Op. mode | Operating mode |
| % Pump Cur. | Set operating current to X% of rated operating current |
| % Pump Power | Set operating power to X % of rated operating power |
| Pump1 Temp. | Laser Pump1 Temperature |
| Pump1 Cur. | Laser Pump1 operating current |
| Pump1 Power | Laser Pump1 operating power |
| Pump2 Temp. | Laser Pump2 Temperature |
| Pump2 Cur. | Laser Pump2 operating current |
| Pump2 Power | Laser Pump2 operating power |
| Input Power | Input power to the EDFA |
| Output power | Total composite output power of the EDFA |
| IPA Level | Input Power Alarm Level |
| OPA Level | Output Power Alarm Level |

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## Laser Safety Information

**CLASS IIIb PRODUCT**

Single-mode connector

Wavelength = 1550nm, 980nm or 1480 nm

Maximum power = 500mW


NP2000PR series products are CDRH certified for laser safety (IEC 60825-1 & IEC 60825-2) and TUV certified for electrical safety (IEC 60950-1).

## Ordering Information

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| Wavelength Range | | Package Type | | EDFA Type | | Output Power (dBm) | Signal Gain (dB) | Connector | | No. of Output Ports | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | C - Band | 00 | Gain block; No Electronics | B | Booster | E.g.: | Fixed Gain | FCU | FC/UPC | 01 | Single Port |
| C0 | Single Channel | MS | MSA compatible gain block without electronics | L | Line Amp | 18 | 2 digits + 00 | FCA | FC/APC | 04 | 4 Ports |
| C1 | 1546 - 1561 nm | MR | MSA compatible gain block with electronics | P | Pre-Amp | 18 dBm | Variable Gain Gain Range | SCU | SC/UPC | 08 | 8 Ports |
| C4 | 1528 - 1563 nm | RS | RS232 gain block with alarms | M | Mid-Stage | | Eg: | SCA | SC/APC | 16 | 16 Ports |
| | L - Band | PR | Rackmount / Table top with RS232 | | | | 2300 23 dB (fixed) | LCU | LC/UPC | 32 | 32 Ports |
| L0 | Single Channel | VG | Variable gain | | | | 1030 10 - 30 dB (variable) | LCA | LC/APC | | |
| L1 | 1568 - 1603 nm | PM | Polarization maintaining | | | | | 000 | Other | | |
| L2 | 1570 - 1605 nm | CU | Custom | | | | | | | | |
| L3 | 1570 - 1610 nm | | | | | | | | | | |
| L4 | C & L Band | | | | | | | | | | |

**Example: NP2000-C0-MS-B-18-2300-FCU-01**

## Contact

For pricing, lead-time and availability please contact:


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