

NP3000PR Series Rack mount EDFA

The NP3000PR is an Erbium doped fiber amplifier in 1U rack mount chassis that can provide more than 30dBm output in the C & L band.

NP3000PR 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. This EDFA is also available in OEM chassis format: [NP3000RS](#)

NP3000PR products comply with Telcordia GR1312 requirements.

Features	Applications
<ul style="list-style-type: none"> ▪ Wide Signal Bandwidth ▪ Excellent Gain Flatness ▪ User-friendly Software ▪ Dynamic Gain & Power Control 	<ul style="list-style-type: none"> ▪ FTTH ▪ DWDM, Telecom, Datacom ▪ CATV ▪ Metro & Long Haul ▪ Test & Measurement ▪ LIDAR / LADAR, R&D ▪ Free-Space Optical (FSO) Communication



NP3000PR Rack mount EDFA

Optical Performance

Parameter	Min.	Typ.	Max.	Units
C-band output power (DWDM)	-	29	-	dBm
C-band output power (Single Channel)	-	30	-	dBm
L-band output power (DWDM)	-	27	-	dBm
L-band output power (Single Channel) (For lower power versions, see: NP2000PR)	-	29	-	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*	-5	25	65	°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 operating temperature range available

NUPHOTON TECHNOLOGIES, INC.

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 Website: www.nuphoton.com email: info@nuphoton.com

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Control and monitor parameters 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

CLASSIV PRODUCT

Single-mode connector

Wavelength = 1550nm, 980nm or 1480 nm

Maximum power = 1.5W



Ordering Information

NP3000 — — — — — — — —

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.: 18 18 dBm	Fixed Gain	FCU FC/UPC	01 Single Port
C0 Single Channel	RS RS232 gain block with alarms	L Line Amp		2 digits + 00	FCA FC/APC	04 4 Ports
C1 1546 - 1561 nm	PR Rackmount / Table top with RS232	P Pre-Amp		Variable Gain	SCU SC/UPC	08 8 Ports
C4 1528 - 1563 nm	VG Variable gain	M Mid-Stage		Gain Range	SCA SC/APC	16 16 Ports
L - Band	PM Polarization maintaining			Eg: 2300 23 dB (fixed)	LCU LC/UPC	32 32 Ports
L0 Single Channel	CU Custom			1030 10 - 30 dB (variable)	LCA LC/APC	
L1 1568 - 1603 nm					000 Other	
L2 1570 - 1605 nm						
L3 1570 - 1610 nm						
L4 C & L Band						

Example: NP3000-C0-RS-B-18-2300-FCU-01

Contact

For pricing, lead-time and availability please contact:



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