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AEROSPACE | TELECOM | INDUSTRIAL | R&D

PRODUCT BROCHURE

NUPHOTON TECHNOLOGIES

AN ISO 9001 / AS 9100 CERTIFIED COMPANY

EDFAs / ASE Sources

TELECOM | CATV | FTTH

Nuphoton EDFAs are designed and optimized for demanding applications in Telecom, CATV and FTTH. These EDFAs are available as the Pre-amp, Line-amp and Booster, as well as for DWDM, with Variable Gain option, with and without mid-stage access. The EDFAs and ASE Source are available in OEM and rack mount configurations and can be controlled through RS232 or ethernet interface. Both C-and L-band are available. PM option is also available. Amplifiers operating at other wavelengths such as 1064 and 2000nm are available for R&D or industrial applications.

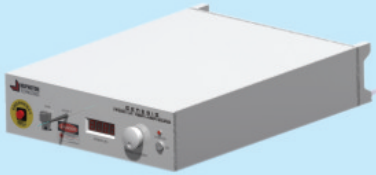
	NP2000HalfMSA	NP2000MS	NP2000VG	NP2000PR	Benchtop EDFA	Benchtop ASE Source
Footprint						
Dimensions (inches)	2.75 × 1.69× 0.47	3.54 × 2.75 × 0.47	7.87 × 4.84 × 0.83	1UR	16.5 x 10.7 x 3.2	16.5 x 10.7 x 3.2
Max. Output Power (dBm)	17	23	24	33	27	27
Features	- ½ MSA Size - Smallest package in the industry - Optional gain flattening - Optional driver electronics	- Highest power in MSA footprint - With and without electronics	- Variable gain 10 - 30dB - Mid-stage access	- Up to 32 output ports - 110/220 VAC or 48 VDC - Available as ASE or EDFA - Ethernet port option	- Ultra low noise - Pre-Amp / Line-Amp / Booster - RS232, IEEE and Ethernet Interface - Optional dual amplifier	- Ultra low noise - High long term stability - RS232, IEEE and Ethernet Interface

Featured Products



NP6000RS Series Raman Amplifier

NP6000RS Series Raman Amplifier is targeted towards Ultra Long Haul Communication networks. This module can incorporate up to 4 pumps and can provide up to 750mW output. The module comes with integrated electronics and RS232 / I2C interface. The module is a class 1M amplifier and incorporates Automatic Power Reduction (APR) mechanism for safety.



GENESIS - 1064nm Fiber Laser

Designed to provide ultra low noise and long term stability for R&D market.

Linearly polarized output. The following models are available:

1) up to 5W CW, SLM 2) up to 5W multimode 3) Q Switched up to 5W

Ordering Information

NP2000 - [ ] [ ] — [ ] [ ] — [ ] — [ ] [ ] — [ ] [ ] [ ] [ ] — [ ] [ ] [ ] — [ ] [ ]

Wavelength Range

	C-Band
C0	Single Channel
C1	1546-1561 nm
C4	1528-1563 nm
	L-Band
L0	Single Channel
L1	1568-1603 nm
CL	C & L Band

Package Type

00	Gain Block; no Electronics
HM	Half MSA; no Electronics
HR	Half MSA with Electronics
MS	MSA Compatible Gain Block without Electronics
MR	MSA Compatible Gain Block with Electronics
RS	RS232 Gain Block with Alarms
PR	Rackmount/Table Top with RS232
VG	Variable Gain
PM	Polarization Maintaining
TM	Extended Temperature Range

EDFA Type

B	Booster
L	Line Amp
P	Pre-Amp
M	Mid-Stage

Output Power (dBm)

E.g.:

18 18 dBm

Signal Gain (dB)

Fixed Gain

2 digits + 00

Variable Gain

Gain Range

E. g.:

2300 23 dBm

1030 10 -30 dB (Variable)

Connector

FCU	FC/UPC
FCA	FC/APC
SCU	SC/UPC
SCA	SC/APC
LCU	LC/UPC
LCA	LC/APC
000	Other

No. of Output Ports

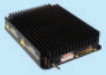
01	Single Port
04	4 Ports
08	8 Ports
16	16 Ports
32	32 Ports

Example: NP2000-C0-MS-B13-18-2300-FCU-01

Fiber Lasers / LIDAR Sources

DEFENSE I AEROSPACE I INDUSTRIAL

Nuphoton Fiber Lasers and LIDAR Sources are designed for demanding applicatons such as LIDAR / LADAR, sensing, altimetry, terrain mapping, free space optical communication and surveillance/reconnaissance. These are rugged (MIL-STD-810E for shock and vibration), reliable (MTBF>15 years) products by design that use proprietary technology to achieve high peak/average power. The MOPA configuration has a TTL input port to control the timing and repetition rate of the output pulses. The user can control the unit through an RS232 interface.

Category	Low Power		Medium Power		High Power		High Power Data Transmitter	High Power Industrial Laser
Footprint	 NP2000 MOPA-100	 NP2000 MOPA-200	 NP3000 MOPA-2W	 NP3000 MOPA-5W	 NP4000 MOPA-20W	CUSTOM DESIGN	 NP3000 MOPA-15W(FSO)	 NP4000MOPA-20W 20W Fiber Laser at 1064nm
Max. Avg. Power	100mW	200mW	2W	5W	20W	Up to 200W	15W	20W
Max. Peak Power (kW)	5	10	60	100	20	MW range	Up to 30W CW	20
Pulse Width (ns)	1.0 - 1.5	< 2.5	2 - 3	2 - 3	1 - 2.5	0.5 - 100	NA	1-20
Rep Rate (kHz)	50 - 100	75 - 200	25 - 150	25 - 150	40 - 200	100 to MHz range	10Gbps data rate	20 - 400
Wavelength (nm)	1550 / 1064	1550 / 1064	1550 / 1064	1550 / 1064	1550 / 1064	1550 / 1064	1550	1064
Output	Single mode	Single mode	Multi mode	Multi mode	Linearly polarized	Single mode / Multi mode	Single mode	Collimator
Typical M^2	1.05	1.05	Custom	Custom	1.2	Custom	Custom	1.3
Chassis dimensions (inches)	3.54 x 2.75 x 0.79	6.58 x 3.97 x 1.95	8.00 x 6.00 x 1.50	12.67 x 8.33 x 3.60	10.60 x 10.12 x 4.63	Custom	ATR	10.60 x 10.12 x 4.42
Features	Low cost replacement for microchip laser	Optimized for LIDAR applications	Single clad or DCF options	DCF Technology	Well suited for green/uv generation	Suited for industrial applications	Integrated seed laser and external modulator	Industrial low cost

Featured Products



NP7000 Series 2um Lasers

NP7000 series 2um lasers are used in medical, surveillance/reconnaissance, counter measures, medical and gas spectroscopy applications. These are CW lasers with up to 5W optical output.



NP5000 Series Green Lasers

NP5000 series green lasers are well suited for applications like materials processing, spectroscopy, trimming, marking and photovoltaic scribing. These are pulsed lasers with 1.0ns to 2.5ns pulse width.

Ordering Information

NP [ ] 000

Power Level

2	< 500mW
3	> 500mW
4	> 10W

1.	1550 nm
2.	1064 nm
3.	2000 nm
4.	532nm

Avg. Output Power

Eg:

002	200mW
014	1.4W

Typical Rep Rate / Data Rate

0	10kHz
1	25kHz
2	50kHz
3	2.5 Gbps
4	10 Gbps
5	Other

Output Fiber Core Dia.

0	9 micron (SM)
1	50 micron (MM)
2	100 micron (MM)
3	Other

Example: NP3000-1-014-2-0

ENGINEERING SERVICES

Nuphoton in collaboration with Vinvish also possesses strong turn key custom design and development capabilities, including the following:

Embedded Control Systems Design, PCB Design, Prototyping, Firmware, System Integration,
Digital Control, Signal Processing, Mechanical and Thermal Design,
CAD/3D Mechanical Structure Modeling,
Optical Simulation & Modeling

Advanced Tools & Platforms Capabilities:

- RSoft OptSim Optical Communication Design Suite
- Protel PCB Design Suite
- C2000 Code Composer Studio
- Keil Embedded IDE
- LabView compatible interface design
- CAD and 3D modeling
- CNC Machining

System & Subsystem Testing:

- 16 channel DWDM system test bed
- Optical spectrum analyzers
- 3.125Gbps BERT testing equipment
- 50GS/s Communications signal analyzer
- Temperature & Environmental Testing Chamber

CERTIFICATIONS

- Telcordia GR1312
- CDRH, IEC 60826-01
- TUV, CSA
- MIL-STD-810E for Shock & Vibration
- ISO 9001:2008 and AS 9100:2004 RevB certified

AWARDS

GOODRICH Sensor Systems -
Best Supplier Award for Innovation, 2005



COMPANY BACKGROUND

Nuphoton Technologies, Inc. is one of the pioneering companies for Fiber Lasers and Fiber Amplifiers in the 1064, 1550 and 2000nm wavelength bands. Since 1996, the company has been using proprietary, leading edge technologies to design and manufacture products for a wide spectrum of applications including DWDM systems, long-haul communication systems, LIDAR / LADAR, FTTH, industrial and R&D.



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