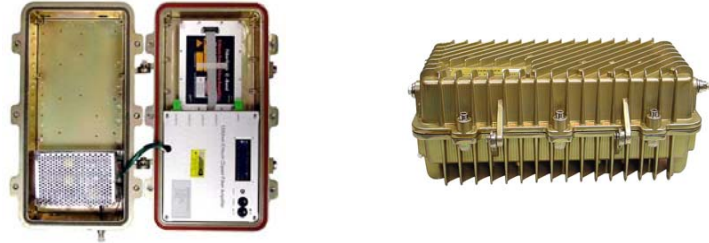




nEDFA | Outdoor Erbium Doped Fiber Amplifier



The QAMnet nEDFA series of Erbium Doped Fiber Amplifiers (EDFA) are sturdy outdoors fiber amplifiers, designed for system integrators in HFC, FTTH, PON and deep-fiber systems. By combining 980 nm/1480 nm pump laser modules and high efficiency Erbium doped fiber, nEDFA amplifiers deliver output up to +24 dBm, while maintaining low Noise Figure (NF). Design to operate over a wide temperature range, nEDFAs are easy to use, reliable and cost-effective solutions.

Depending on pump lasers configuration, nEDFA amplifier produces optical output level from +17 dBm to +24 dBm.

Features

- Weather proof cast aluminum housing for outdoors installation
- Highly reliable 980 nm and 1480 nm pump lasers
- Designed to operate over a wide temperature range: -40°C to +55°C
- Forward and backward pumping to minimize noise figure (NF)
- 60 VAC, 110 VAC or -48 VDC power supply
- Input power level range: -5 dBm to +7 dBm
- Automatic Current Control (ACC)
- LCD front panel digital display and LED status indicators

Ordering Information

- nEDFA-xx-yy
- xx: 17, 20, 23, 24 (Output Power in dBm)
- yy: number of output



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Technical Specifications

Operating Wavelength Range	1528 nm to 1563 nm
Output Power Level (1550nm and +3dBm Input)	
nEDFA-17	16.7 dBm Minimum, 17.0 dBm Typical
nEDFA-20	19.7 dBm Minimum, 20.0 dBm Typical
nEDFA-23	22.7 dBm Minimum, 23.0 dBm Typical
nEDFA-24	23.7 dBm Minimum, 24.0 dBm Typical
Number of Output	1 output standard, multiple output ports can be customized
Optical Return Loss	50 dB Minimum
Input/Output optical Isolation	30 dB Minimum
Polarization Mode Dispersion	1.0 ps Maximum
Polarization Dependent Gain	0.15 dB Maximum
Noise Figure (NF)	5.0 dB @ +3 dBm Input
Input Power Range	-5 dBm to +7 dBm
Output Power Stability	0.25 dB over 8 hours
Input Output Fiber Type	Corning SMF28

Environment / Mechanical Specifications

Temperature Range	-40°C to +55°C (operation) -50°C to +70° C (storage)
Power Supply	60 VAC Standard, 110 VAC and -48 VDC power supply available
Power Consumption	60 W Maximum
Housing Dimensions	17"(L) x10"(W) x 6.5"(H)
Control / Monitoring	Pump Laser Temperature and Current
Optical Connectors	SC/APC or Customer Specified



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