Optilab
optics for future networks

qEDFA Series

New!

High-Power, Multiple-Output EDFA

The Optilab qEDFA series is an innovative, high-power, multiple-output EDFA with +30 dBm optical output with multiple port configuration options utilizing an internal splitter enclosed in a single 1RU housing for RFOG, HFC, and deep fiber applications. Using multimode laser pumping, all-fiber combiner and Erbium/Ytterbium double-clad, large-core fiber technologies, the qEDFA achieves high output power in conjunction with low cost. As a high-density solution designed for use in RFoG, HFC, and deep fiber applications, the qEDFA conserves rackmount space, lowers power consumption, and simplifies maintenance. The qEDFA provides the most cost-effective solution for fiber transport that is efficient for both small and large scale systems. The qEDFA is capable of up to +30 dBm output power with internal splitter up to 16 channels of over +17 dBm optical output power per channel for greater network coverage. Constructed with long term uninterrupted service in mind, the qEDFA provides the best cost/performance ratio in the industry.

Features

- + 30 dBm total output power
- Customizable up to 16 outputs
- Compact 1RU design
- Saves on cost, space, and maintenance
- Cost-effective, high performance solution
- **3 year warranty standard**

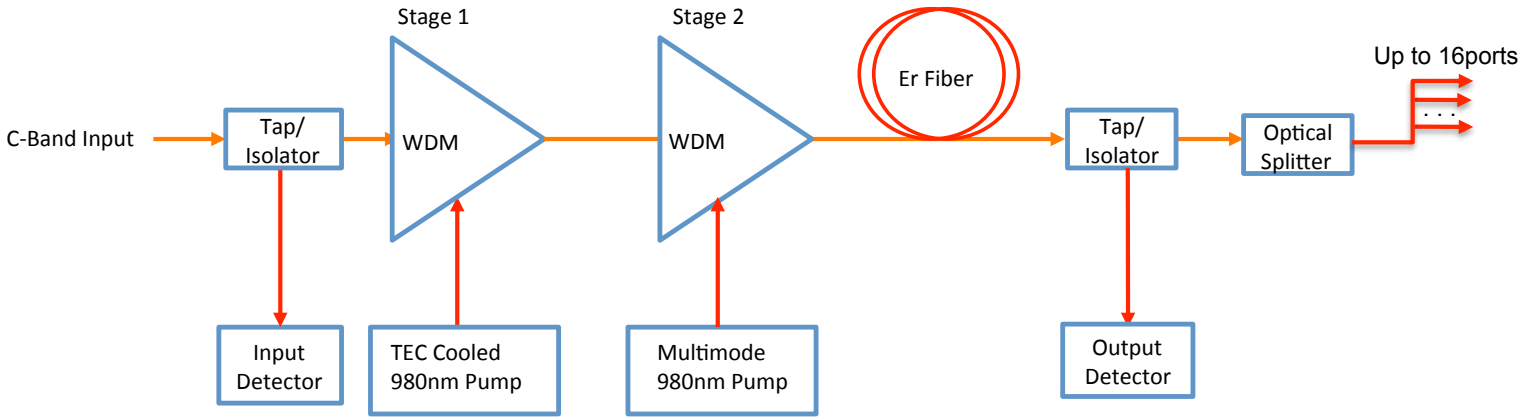
Applications

- RFOG
- HFC
- Deep Fiber applications
- For RUS/USDA projects

USDA Rural Development
Committed to the future of rural communities.

This Optilab product meets Buy American and is RUS accepted

Functional Diagram



High-Power, Multiple-Output EDFA | qEDFA Series

OPTIONS

qEDFA-xx-yy

xx Output Power

yy # of Output Ports

TECHNICAL INFO

For technical info and support:

sales@optilab.com

www.optilab.com

PHONE

Contact Optilab at:

1-888-553-3888 (toll-free)
1-602-343-1496 (direct, int'l)

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Phoenix, AZ, USA

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EDFA Specifications	
Operating Wavelength Range	1540 nm to 1570 nm
Output Power (@ +3 dBm input)	+27 to +30 dBm available
Input Power Range	-8 dBm to +8 dBm
Optical Return Loss	52 dB min.
Input/Output Optical Isolation	30 dB
Polarization Mode Dispersion	1.0 ps max.
Polarization Dependent Gain	.15 dB max.
Noise Figure (NF)	5.0 dB typ.
Output Power Stability	± 0.2 dB over 8 hours
Input / Output Fiber Type	Corning SMF-28
Splitter Specifications	
Number of Output Ports	Up to 16 output ports
Optical Connectors	LC/APC standard
Mechanical Specifications	
Operation Temperature Range	0°C to +50°C
Storage Temperature Range	-40°C to +70°C
Power Supply	80 – 240 V, 43 – 63 Hz AC
Power Consumption	80 W max.
Housing Dimensions	1RU 19"(W) x 17.5"(D) x 1.75"(H)
Control / Monitoring	Laser Temperature, EDFA power
Remote Interface	SNMP
Alarm	Over Temperature, Over Current
Accessories Included	LC to SC/APC (16) patchcord included

Configural Specifications			
Part Number	EDFA	Number of Ports	Output Power/Port
qEDFA-27-4	+27 dBm	4	+20.5 dBm
qEDFA-27-8	+27 dBm	8	+16.5 dBm
qEDFA-30-8	+30 dBm	8	+19.5 dBm
qEDFA-30-16	+30 dBm	16	+16.5 dBm

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