

qEDFA Series



DEVICE

EM Transmitter - FTTH

OVERVIEW

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 gEDFA 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 gEDFA provides the best cost/performance ratio in the industry.

FEATURES

- +30 dBm total output power
- Customizable up to 16 outputs
- Compact 1RU design

USE IN

Deep Fiber Applications

- Saves on cost, space, and maintenance
- Cost-effective, high performance solution
- 1 year warranty

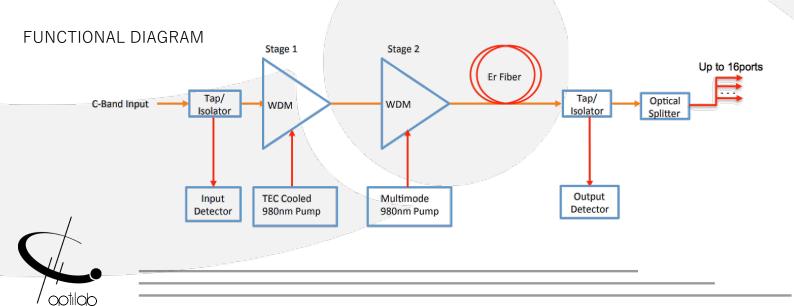
- HFC
- For RUS/USDA projects
- RFoG

ORDERING **OPTIONS**

qEDFA-xx-yy

Output Power Level XX

Number of Output Ports ۷V





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SPECIFICATIONS

GENERAL

Operating Wavelength Range	1540 nm to 1570 nm		
Output Power (@ +3dBm 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

Number of Output Ports	Up to 16 output ports	
Optical Connectors	LC/APC standard	

MECHANICAL

Operating 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

