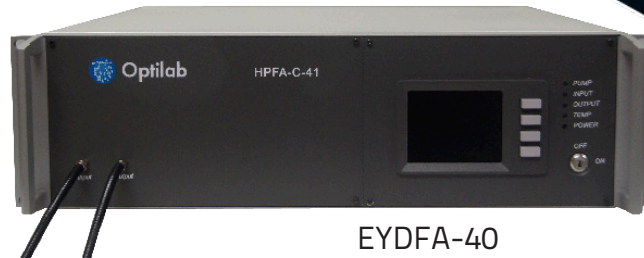


# EYDFA-40



## Er/Yb Doped Fiber Amplifier +40 dBm

Optilab's EYDFA-40 is a Er/Yb Doped Fiber Amplifier that utilizes multimode laser pumping, all-fiber combiner and Erbium/Ytterbium double-clad, largecore fiber technologies to achieve high output power in conjunction with low cost. The output level of the EYDFA-40 amplifier exceeds 10 W in CW operation, and adding an optional input stage EDFA allows a low input signal level of -25 dBm. It's highly reliable production proven pump laser sources ensure long-term reliability. Each EYDFA-40 comes with Labview-based control software via RS-232, and an armored fiber pigtailed output for protecting the fiber during high output. EYDFA units can be customized to meet requirements for optical pulse amplification, LIDAR, CATV, FTTH and PON networks, and free space communications. Contact Optilab for more information.

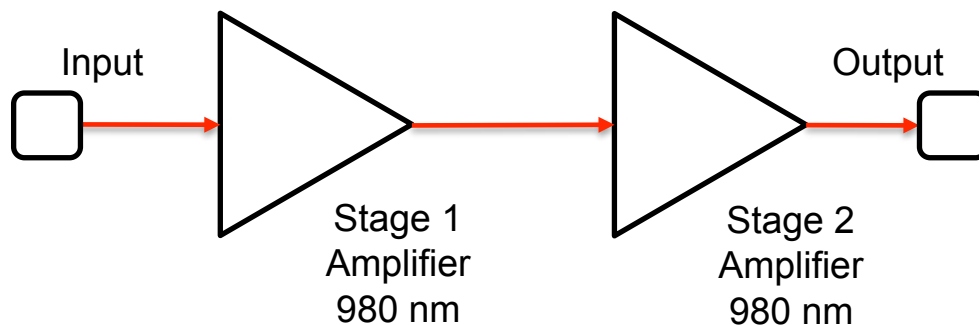
### Features

- High output power up to +40 dBm
- Customizable for various application
- High optical gain of 50 dB
- Control with RS-232 interface
- **1 year warranty standard**

### Applications

- Optical pulse amplification
- LIDAR
- CATV
- FTTH
- PON networks
- Free space communications

### Functional Diagram



# Er/Yb Doped Fiber Amplifier +40 dBm | EYDFA-40

## OPTIONS

### EYDFA-xx-y-z

- xx +34 dBm to +40 dBm  
y i: Output Isolator;  
n: None  
z c: Collimated beam;  
n: None

## TECHNICAL INFO

For technical info and support:

[sales@optilab.com](mailto:sales@optilab.com)

[www.optilab.com](http://www.optilab.com)

## PHONE

Contact Optilab at:

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

Optilab, LLC  
Phoenix, AZ, USA

## WEB ORDER

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online today.

 **OEQuest.com**

Optical Specifications	
Operating Range	C-band, 1540 nm to 1570 nm
Output Power Levels	+34 dBm to +40 dBm
Signal Gain @ 0 dBm	Up to 40 dB, depending on the model
Input Signal Range	-6 to +6 dBm; -25 dBm to 0 dBm (with pre-amp EDFA)
Noise Figure (NF)	5.0 dB typ.
Input/Output Opt. Isolation	34 dB min.
Polar. Dependent Gain	0.15 dB max.
Input/Output Fiber Type	Corning SMF-28
Mechanical Specifications	
Operating Temperature	0° C to +50° C
Storage Temperature	-30° C to +70° C
Power Supply Requirements	80 - 240 V, 43 - 63 Hz AC
Power Consumption	100 W max.
Control	Automatic Current Control
Monitoring	Output Power, Pump Laser Current, Case Temperature
Computer Interface	RS-232 Connector
Display	Output Power, Pump Laser Temperature, Current
Protection	Pump Laser Overheat Warning, Key lock switch
Optical Input Connectors	FC/APC, FC/UPC, SC/UPC, SC/APC
Optical Output Connectors	Bare fiber, connector optional
Housing Dimensions	3RU: 19" x 14.5" x 4.5"
Housing	Steel Frame

## Optilab Advantage

- Innovation
- Performance
- Quality
- Customization
- Warranty