

**THORLABS**

DUAL-EDFA - JUL 15, 2020

Item # DUAL-EDFA was discontinued on JUL 15, 2020. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

ERBIUM-DOPED FIBER LINK AMPLIFIER

- ▶ Two Independent Bi-Directional Amplifier Units
- ▶ Available on ITU Channels



DUAL-EDFA
Erbium-Doped Fiber Link Amplifier

OVERVIEW

Features

- Integrated Micro Controller and Front Panel Touch Screen
- Control via USB, RS232, and Ethernet
- Optical Fiber Links
- Optical Clock Comparison
- Optical Frequency Dissemination

Applications

The world's best optical clocks realize an accuracy which surpasses other clock systems by orders of magnitude. Further improvements of optical clocks and the search for systematic effects demand for intercomparisons between the best optical clocks, which are often located in different labs or even different cities or countries.

Optical fiber links are an efficient and powerful means to bridge these long distances between clocks. Dissemination of extremely stable optical frequencies derived from optical clocks via optical fiber links will enable remote users to take advantage of the fantastic accuracy of optical clocks without the need to operate such a clock on site. Both applications benefit from existing optical fiber connections which are available all over the world. The DUAL-EDFA has been engineered as a bidirectional amplifier, which is a prerequisite for active fiber noise cancellation. It has been used successfully in recent experiments demonstrating world record performance of optical fiber links (see, e.g., S. Droste et al., Phys. Rev. Lett. 111, 110801 (2013) and K. Predehel et al., Science 336, 441 (2012)). Two independent amplifier units allow up to two fiber channels. The COM1300 optional add-on provides an inline communication channel at 1.3 μm for remote control over the fiber link itself. Please contact Menlo Systems for more information.



Simon Kocur
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Feedback? Questions? Need a Quote?

[Contact Us](#)

Please note that the Fiber Link Amplifier is available directly from Menlo Systems, Inc. within the United States and from Menlo Systems GmbH outside the United States.

United States

Phone: +1-973-300-4490

Email: ussales@menlosystems.com

Outside United States

Phone: +49-89-189166-0

Email: sales@menlosystems.com

Item #	DUAL-EDFA
Wavelength	ITU Channel, 1520 - 1577 (C-Band)
Input Power	0.5 - 5 μW
Amplification	≤ 20 dB
Maximum Output Power	10 mW
Input / Output Connector	FC/APC, SMF 28
Control Electronics Dimensions	19" Rack Unit, 3U
Laboratory Requirements	
Operating Voltage	110 - 230 VAC
Line Frequency	50 to 60 Hz
Power Consumption	<120 W
Lab Temperature Stability	22 \pm 5 $^{\circ}\text{C}$

Part Number	Description	Price	Availability
DUAL-EDFA	Erbium Doped Fiber Link Amplifier, 1520 - 1577 nm, C-Band, ≤ 20 dB Gain	\$0.00	Menlo Lead Time

Visit the *Erbium-Doped Fiber Link Amplifier* page for pricing and availability information:

https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=8056



MenloSystems
GmbH

MPQ - PTB Link

ESC

ENTER

ON / OFF

AMP 1

AMP 2

ON / OFF

Aux 1

Aux 2

POWER

MPQ 1

MPQ 2

PTB 2

PTB 1

Aux 1

Aux 2