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Data Sheet

August 15, 2026

FIBERLABS

FiberLabs AMP-FL8021 CL-Band Optical Amplifier

Aumictech offers NIST-traceable calibration and repair for the FiberLabs AMP-FL8021-CLB-20. Calibration covers gain at rated input power across the specified wavelength range, noise figure at rated gain setting, output power accuracy, gain flatness across the C-band or specified wavelength range, and polarization-dependent gain (PDG) where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common FiberLabs AMP-FL8021-CLB-20 faults: pump laser diode degradation (gain drop, reduced output power), TEC failure causing thermal drift, optical isolator degradation, power supply failure. The most common failure on any EDFA is pump laser diode degradation. Secondary faults include TEC failure causing thermal runaway, optical isolator degradation, and power supply failure. This FiberLabs AMP-FL8021-CLB-20 is listed at



MODEL

FiberLabs AMP-FL8021-CLB-20

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AMP-FL8021-CLB-20

LISTING

<https://aumictechlabs.com/products/amp-fl8021-clb-20-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The FiberLabs AMP-FL8021-CLB-20 is a CL-Band Optical Fiber Amplifier meticulously engineered to amplify optical signals within the C-band and L-band spectrum, ensuring solid signal transmission across fiber optic communication networks. This amplifier plays a role in enhancing network performance, extending transmission distances, and maintaining signal integrity, making it an indispensable component in telecommunications, research facilities, and various applications

demanding optical signal amplification. Its advanced design and precision engineering guarantee optimal signal enhancement, contributing to the reliability and efficiency of optical communication systems.

AMPFL8021CLB Characteristics / Specifications

PARAMETER	VALUE
Model	AMP-FL8021-CLB-20
Series	AMP-FL8021-CLB
Operating WavelengthCBand	1530 nm to 1560 nm
Operating WavelengthLBand	1570 nm to 1610 nm
Nominal Wavelengths	1550 nm and 1580 nm
Gain At Minus 30 Dbm Input Class	greater than or equal to 35 dB
Noise Figure At Minus 30 Dbm Input	less than or equal to 7 dB
Output Power Spec Condition	0 dBm input at nominal wavelength
Gain Spec Condition	minus 30 dBm input at nominal wavelength
Control Modes	ACC and ALC
Fiber Type	SMF G.652
Standard Connector	FC/PC
Input Output Isolators	built in
Remote Interface	RS-232C and IEEE-488.1 GP-IB
Operating Temperature	0 C to 40 C
Storage Temperature	minus 10 C to 60 C
Line Power	AC 100 to 240 V 50/60 Hz
Monitor Parameters	optical output power pump LD current pump LD temperature case temperature
Safety Function	remote shutdown interlock available
Product Type	bench top EDFA
Maximum output power	Custom CLB-20: greater than or equal to plus 20 dBm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 10 C to 60 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Line Power	AC 100 to 240 V 50/60 Hz
Monitor Parameters	optical output power pump LD current pump LD temperature case temperature
Safety Function	remote shutdown interlock available
Product Type	bench top EDFA Notes Wavelength gain NF control and mechanical rows from FiberLabs AMP-FL8021-CLB series published table (CLB-19 class for gain and NF). CLB-20 plus 20 dBm maximum output is from the custom Artisan configuration note for AMP-FL8021-CLB-20.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Mass Class	7 kg
Monitor Parameters	optical output power pump LD current pump LD temperature case temperature
Safety Function	remote shutdown interlock available
Product Type	bench top EDFA
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PARAMETER	VALUE
Storage Temperature	minus 10 C to 60 C
Line Power	AC 100 to 240 V 50/60 Hz

Power Consumption Class CLB-13 To 19: less than 30 W
Dimensions Class CLB-13 To 19: 88 mmHx 260 mmWx 350 mmDMass Class: 7 kg

Specifications

PARAMETER	VALUE
Monitor Parameters	optical output power pump LD current pump LD temperature case temperature
Safety Function	remote shutdown interlock available
Product Type	bench top EDFA

Notes
Wavelength gain NF control and mechanical rows from FiberLabs AMP-FL8021-CLB series published table (CLB-19 class for gain and NF). CLB-20 plus 20 dBm maximum output is from the custom Artisan configuration note for AMP-FL8021-CLB-20.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.