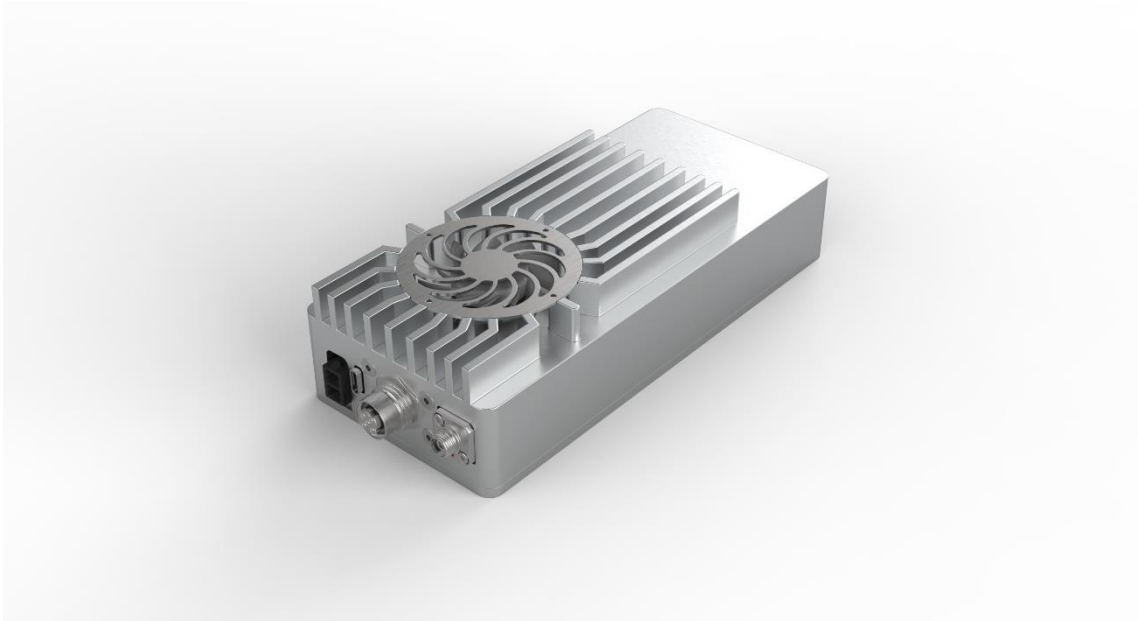




MFP Fibre Preamplifier



The MOGLabs MFP is a cost-effective low-power fibre preamplifier based on Er and Yb doped active fibres. It uses an internal DFB or external seed laser providing output power from 300 mW up to 1 W (wavelength and seed power dependent). The operating wavelength ranges include 1000 to 1100 nm for Yb and 1530 to 1610 nm for Er active fibres. The stage can be connected directly to PC via standard USB-C or USB-C to USB 2.0 cables.

Features

- Compact
- Simple integration
- Cost effective
- Access to unique wavelengths
- Internal or external seed

Applications

- Telecom test and measurement
- Atomic physics
- Quantum computing

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Specifications MFP

Optical

	1060 – 1090nm, 350 mW (4 mW input) 1550 – 1570nm, 300 mW (5 mW input)
Wavelength/power	1060 – 1090nm, 1.1 W (30 mW input) 1550 – 1570nm, 1 W (25 mW input)
Power gain	8 to 15 dB (wavelength dependent)
Modulation	10 kHz bandwidth, 0 – 1.2V control input
Stability	2% RMS
Operating temperature	20 ± 10 °C
Warmup time	30 min

Computer interface

USB	USB – C or USB – C to USB 2.0 adapter cable
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Protection

External interlock	M8 5-pin connector
Photodetector	Seed/amplification stage failsafe

Connectors

Modulation input	10kHz (via M8 connector)
Power	MOLEX Megafit 2 pin (24V)
Input	FC/APC mating sleeve (with or without index matching gel) or internal DFB seed laser
Output	FC/APC mating sleeve

Dimensions

Dimensions	180 x 80 x 45.5 (LxWxH), 0.5 kg
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