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Data Sheet

August 14, 2026

JDS UNIPHASE

JDS Uniphase OAB1552+1FP0

The JDS Uniphase OAB1552+1FP0 is an Erbium-Doped Fiber Amplifier (EDFA) module engineered for telecommunications and data center applications across the C-band. Operating in the 1528–1565 nm wavelength range, this unit boosts optical signal power to extend transmission distances and enhance network performance. It supports deployment as a pre-amplifier, booster, or in-line amplifier in single-channel and multichannel (DWDM) systems. The compact benchtop form factor integrates easily into both laboratory and rack-mountable environments. Small Signal Gain: 20–24 dB minimum (booster configuration); 37 dB (pre-amplifier configuration) Certifications: CE, cULus; standards compliance with UL3101-1 and CAN/CSA-C22.2 No. 1010.1 Aumictech offers NIST-traceable calibration and repair for the JDS Uniphase OAB1552+1FP0. Calibration covers gain at rated input power across the specified wavelength



MODEL

**JDS Uniphase
OAB1552+1FP0**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OAB1552+1FP0

LISTING

<https://aumictechlabs.com/products/oab1552-1fp0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase OAB1552+1FP0 is an Erbium-Doped Fiber Amplifier (EDFA) module engineered for telecommunications and data center applications across the C-band. Operating in the 1528–1565 nm wavelength range, this unit boosts optical signal power to extend transmission distances and enhance network performance. It supports deployment as a pre-amplifier, booster, or in-line

amplifier in single-channel and multichannel (DWDM) systems. The compact benchtop form factor integrates easily into both laboratory and rack-mountable environments.

Technical Specifications

Amplifier Type: Erbium-Doped Fiber Amplifier (EDFA)

Operating Wavelength Range: 1528–1565 nm (C-band)

Saturated Output Power: 17 dBm minimum (booster configuration)

Noise Figure: 4.5 dB maximum (booster configuration)

Small Signal Gain: 20–24 dB minimum (booster configuration); 37 dB (pre-amplifier configuration)

Amplifier Configurations: Pre-amplifier, booster, in-line amplifier

Key Features

Optical connectors: FC/PC, FC/APC, SC/PC, or SC/APC

LCD display for real-time monitoring of input/output power and current

RS232 remote control interface

Compact dimensions: 21.2 × 8.9 × 35.5 cm (W × H × D)

Weight: Less than 4 kg

Operating temperature: 0–50 °C; **storage:** –40–70 °C

Maximum humidity: 95% RH non-condensing (0–45 °C)

Laser safety: FDA 21 CFR 1040.10 Class IIIb compliant (maximum output ≤24.5 dBm)

Certifications: CE, cULus; standards compliance with UL3101-1 and CAN/CSA-C22.2 No. 1010.1

Typical Applications

Pre-amplifier configurations for weak signal recovery

Booster amplifier stages for power elevation

In-line amplifier deployment in long-haul and metropolitan networks

Single-channel and DWDM system integration

Compatibility & Integration

The OAB1552+1FP0 accepts single-channel and multichannel (DWDM) optical inputs across the C-band. Standard fiber connectors ensure compatibility with existing telecommunications infrastructure. The integrated LCD and RS232 control enable straightforward laboratory and field deployment.

OAB15521FP0 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	JDS Uniphase OAB1552
Test Band	C-band
Amplifier Type	Booster
Operating Wavelength Range	1528 to 1565 nm
Input Signal	single channel
Saturated Output Power Minimum Standard	17 dBm
Saturated Output Power High Power Codes	20 dBm or 24 dBm minimum per option
Noise Figure Maximum	4.5 dB
Small Signal Gain Minimum	30 dB
PDL Maximum	0.3 dB
PMD Maximum	0.4 ps
Input Output Isolation Minimum	45/32 dB
Optical Interface Options	FC/PC FC/APC SC/PC SC/APC
Dimensions WxHxD	21.2 × 8.9 × 35.5 cm
Weight	less than 4 kg
Operating Temperature	0 to 50 C
Storage Temperature	minus 40 to 70 C
Humidity	maximum 95 percent RH non-condensing 0 to 45 C
Specification Temperature	23 C at 1550 nm
Maximum Output Power FDA Class	not greater than 24.5 dBm Class IIIb
Remote Control	RS232
Packaging	half rack benchtop and 19-inch rack-mount kit
Laser Safety Class	IIIb
Pin Saturated Power Measurement	Pin equals minus 4 dBm

PARAMETER	VALUE
Wavelength range	1528 to 1565 nm
Maximum output power	FDA Class: not greater than 24.5 dBm Class IIIb
Output isolation	Minimum: 45/32 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to 70 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	maximum 95 percent RH non-condensing 0 to 45 C
Specification Temperature	23 C at 1550 nm
Maximum Output Power FDA Class	not greater than 24.5 dBm Class IIIb
Remote Control	RS232
Packaging	half rack benchtop and 19-inch rack-mount kit
Laser Safety Class	IIIb
Pin Saturated Power Measurement	Pin equals minus 4 dBm Notes From JDS Uniphase OAB Series Erbium-Doped Fiber Amplifier OEM specification tables for OAB1552. Confirm standard versus high-power (+20/+24 dBm) and connector codes on the configuration label.

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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Notes

From JDS Uniphase OAB Series Erbium-Doped Fiber Amplifier OEM specification tables for OAB1552. Confirm standard versus high-power (+20/+24 dBm) and connector codes on the configuration label.

Laser Safety

Laser Safety Class: IIIb Pin Saturated Power Measurement: Pin equals minus 4 dBm Notes From JDS Uniphase OAB Series Erbium-Doped Fiber Amplifier OEM specification tables for OAB1552. Confirm standard versus high-power (+20/+24 dBm) and connector codes on the configuration label.

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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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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.