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**Data Sheet**

August 15, 2026

JDS UNIPHASE

## JDS Uniphase OAB1415-16-Z0001

The JDS Uniphase OAB1415-16-Z0001 is an Erbium-Doped Fiber Amplifier (EDFA) designed for optical signal amplification across C-band and extended wavelength ranges. Part of the OAB series, this benchtop amplifier delivers optimized gain, minimized noise figure, and high saturated output power for demanding fiber optic applications. The unit supports multiple amplifier configurations - pre-amplifier, booster, in-line, mid-span booster, and DWDM high-power booster modes - making it suitable for both single-channel and multichannel transmission systems. Configuration Modes: Pre-amplifier, booster amplifier, in-line amplifier, mid-span booster, DWDM high-power booster Display: LCD front panel with real-time input/output power monitoring and current control Optimized performance across gain, noise figure, and saturated output power parameters

**MODEL****JDS Uniphase  
OAB1415-16-Z0001****CALIBRATION****Available on  
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****OAB1415-16-Z0001****LISTING**<https://aumictechlabs.com/products/oab1415-16-z0001-2/>

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NAICS 423690 · 811210 · 541380

### This unit

The JDS Uniphase OAB1415-16-Z0001 is an Erbium-Doped Fiber Amplifier (EDFA) designed for optical signal amplification across C-band and extended wavelength ranges. Part of the OAB series, this benchtop amplifier delivers optimized gain, minimized noise figure, and high saturated output power for demanding fiber optic applications. The unit supports multiple amplifier configurations - pre-amplifier, booster, in-line, mid-span booster, and DWDM high-power booster

modes - making it suitable for both single-channel and multichannel transmission systems.

**Technical Specifications**

**Product Type:** Erbium-Doped Fiber Amplifier (EDFA)

**Wavelength Range:** 1528–1610 nm (EDFA window); C-band optimized at 1528–1565 nm

**Configuration Modes:** Pre-amplifier, booster amplifier, in-line amplifier, mid-span booster, DWDM high-power booster

**Band Coverage:** C-band, L-band, and C+L-band versions available across OAB series

**Gain:** High output power and gain optimized for signal amplification

**Noise Figure:** Minimized across operating range

**Optical Interface:** Standard optical connectors

**Display:** LCD front panel with real-time input/output power monitoring and current control

**Form Factor:** Compact benchtop design; rack-mount kit available

**Compliance:** CE and ULc certification (selected models)

**Key Features**

- Optimized performance across gain, noise figure, and saturated output power parameters
- User-friendly LCD interface for power level monitoring and amplifier control
- Versatile bandwidth configurations for C-band, L-band, and C+L-band applications
- Modular design supporting benchtop operation with optional rack-mount integration
- Multi-mode amplifier functionality enabling pre-amp, booster, and in-line operation

**Typical Applications**

- DWDM transmission systems for multichannel optical communications
- SONET/SDH systems for single-channel deployment
- Test and measurement of fiber optic components and subsystems
- Emulation of pre-amp, booster, and in-line amplifier stages in manufacturing and validation environments
- Research and development requiring precise optical power control and signal amplification

**Compatibility & Integration**

The OAB1415-16-Z0001 integrates into existing fiber optic infrastructure via standard optical connectors and operates alongside DWDM and SONET/SDH transmission equipment. Benchtop configuration suits laboratory and manufacturing test environments, while optional rack-mount capability enables integration into larger system deployments.

# OAB141516Z0001 Characteristics / Specifications

| PARAMETER               | VALUE                                                            |
|-------------------------|------------------------------------------------------------------|
| Model                   | OAB1415-16                                                       |
| Instrument Type         | Instrumentation erbium-doped fiber amplifier                     |
| Family                  | JDSU OAB series EDFA                                             |
| Edfa Window             | 1528 to 1610 nm                                                  |
| Configuration Class     | 16 dBm OAB1415-16 catalog identity                               |
| Related Listing         | OAB1415-16-Z0001                                                 |
| Display                 | LCD input/output power and current control                       |
| Optical Interface Class | FC/PC, FC/APC, SC/PC, SC/APC                                     |
| Packaging               | half rack benchtop and 19-inch rack-mount kit class              |
| Dimensions              | 21.2 × 8.9 × 35.5 cm (OAB series)                                |
| Weight                  | less than 4 kg (OAB series)                                      |
| Operating Temperature   | 0 to 50 C (OAB series)                                           |
| Storage Temperature     | -40 to 70 C (OAB series)                                         |
| Humidity                | maximum 95 percent RH non-condensing from 0 to 45 C (OAB series) |
| Remote Class            | RS-232 remote communication class on OAB instrumentation         |
| Form Factor             | half-rack EDFA                                                   |
| Manufacturer            | JDS Uniphase / VIAVI                                             |
| Use Case                | instrumentation optical gain                                     |
| Literature              | JDSU OAB series EDFA datasheet and OAB1415-16 catalog identity   |
| Related Ase             | BNS1415 C-band ASE source                                        |
| Documentation Type      | OEM OAB EDFA catalog                                             |
| Brand Lineage           | JDS Uniphase VIAVI                                               |
| System Role             | instrumentation EDFA                                             |

# OAB141516Z0001 Specifications

| PARAMETER                | VALUE                                                                    |
|--------------------------|--------------------------------------------------------------------------|
| Applications             | C-band optical gain for component, subsystem, and R&D EDFA-window tests. |
| OAB instrumentation EDFA | EDFA window 1528 to 1610 nm                                              |
| Technical Specifications | Model: OAB1415-16                                                        |

# General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature   | 40 to 70 C (OAB series)                                                                                                                                                                                                                                                                                                           |
| Operating temperature | 0 to 50 C (OAB series)                                                                                                                                                                                                                                                                                                            |
| Operating Temperature | 0 to 50 C (OAB series)                                                                                                                                                                                                                                                                                                            |
| Humidity              | maximum 95 percent RH non-condensing from 0 to 45 C (OAB series)                                                                                                                                                                                                                                                                  |
| Remote Class          | RS-232 remote communication class on OAB instrumentation                                                                                                                                                                                                                                                                          |
| Form Factor           | half-rack EDFA                                                                                                                                                                                                                                                                                                                    |
| Manufacturer          | JDS Uniphase / VIAVI                                                                                                                                                                                                                                                                                                              |
| Use Case              | instrumentation optical gain                                                                                                                                                                                                                                                                                                      |
| Literature            | JDSU OAB series EDFA datasheet and OAB1415-16 catalog identity                                                                                                                                                                                                                                                                    |
| Related Ase           | BNS1415 C-band ASE source                                                                                                                                                                                                                                                                                                         |
| Documentation Type    | OEM OAB EDFA catalog                                                                                                                                                                                                                                                                                                              |
| Brand Lineage         | JDS Uniphase VIAVI                                                                                                                                                                                                                                                                                                                |
| System Role           | instrumentation EDFA Notes From JDSU OAB series EDFA datasheet (1528-1610 nm window, LCD, connectors, 21.2 × 8.9 × 35.5 cm, <4 kg, 0-50 C) plus OAB1415-16 catalog identity. Saturated power, noise figure, and small-signal gain for this 1415-16 build are on the OAB1415-16 configuration sheet, not copied from OAB155x rows. |

# 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                                                                                               |                                                                  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Specifications                                                                                               |                                                                  |
| PARAMETER                                                                                                    | VALUE                                                            |
| Model                                                                                                        | OAB1415-16                                                       |
| Instrument Type                                                                                              | Instrumentation erbium-doped fiber amplifier                     |
| Family                                                                                                       | JDSU OAB series EDFA                                             |
| Edfa Window                                                                                                  | 1528 to 1610 nm                                                  |
| Configuration Class                                                                                          | 16 dBm OAB1415-16 catalog identity                               |
| Related Listing                                                                                              | OAB1415-16-Z0001                                                 |
| Display                                                                                                      | LCD input/output power and current control                       |
| Optical Interface Class                                                                                      | FC/PC, FC/APC, SC/PC, SC/APC                                     |
| Packaging                                                                                                    | half rack benchtop and 19-inch rack-mount kit class              |
| Dimensions                                                                                                   | 21.2 x 8.9 x 35.5 cm (OAB series)                                |
| Weight                                                                                                       | less than 4 kg (OAB series)                                      |
| Operating Temperature                                                                                        | 0 to 50 C (OAB series)                                           |
| Storage Temperature                                                                                          | -40 to 70 C (OAB series)                                         |
| Humidity                                                                                                     | maximum 95 percent RH non-condensing from 0 to 45 C (OAB series) |
| Remote Class                                                                                                 | RS-232 remote communication class on OAB instrumentation         |
| Form Factor                                                                                                  | half-rack EDFA                                                   |
| Manufacturer                                                                                                 | JDS Uniphase / VIAVI                                             |
| Use Case                                                                                                     | instrumentation optical gain                                     |
| Literature                                                                                                   | JDSU OAB series EDFA datasheet and OAB1415-16 catalog identity   |
| Related Ase                                                                                                  | BNS1415 C-band ASE source                                        |
| Documentation Type                                                                                           | OEM OAB EDFA catalog                                             |
| Brand Lineage                                                                                                | JDS Uniphase VIAVI                                               |
| System Role                                                                                                  | instrumentation EDFA                                             |
| Notes                                                                                                        |                                                                  |
| From JDSU OAB series EDFA datasheet (1528-1610 nm window, LCD, connectors, 21.2 x 8.9 x 35.5 cm, <4 kg, 0-50 |                                                                  |

C) plus OAB1415-16 catalog identity. Saturated power, noise figure, and small-signal gain for this 1415-16 build are on the OAB1415-16 configuration sheet, not copied from OAB155x rows.

### Available from Aumictech

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

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

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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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.