

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ANDO

Ando AQ4320D 1520-1620nm Tunable Laser Source

Ando AQ4320D Tunable Laser Source 1520 to 1620 nm The Ando AQ4320D is the L-band oriented member of the AQ4320 tunable laser family covering 1520 to 1620 nm with high optical output in the 1600 nm band. OEM AQ4320A/B/D datasheet columns list plus 7 dBm typ peak in 1560 to 1600 nm, SMSR 50 dB or more, and the same modulation stability and mechanical envelope as AQ4320A. L-band WDM and optical amplifier testing, 1600 nm band component characterization, and automated optical stimulus with wavelength calibration. The Ando AQ4320D is the L-band oriented member of the AQ4320 tunable laser family covering 1520 to 1620 nm with high optical output in the 1600 nm band. OEM AQ4320A/B/D datasheet columns list plus 7 dBm typ peak in 1560 to 1600 nm, SMSR 50 dB or more, and the same modulation stability and mechanical envelope as AQ4320A. L-band WDM and optical amplifier testing, 1600 nm band component characterization, and automated optical stimulus with wavelength calibration. Shared AQ4320 modulation and stability architecture



MODEL

Ando AQ4320D

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ4320D

LISTING

<https://aumictechlabs.com/products/aq4320d-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ando AQ4320D is a tunable laser source delivering precise wavelength control across the 1520–1620 nm band for optical component and system characterization. Operating with ± 0.1 nm absolute accuracy and ± 0.035 nm relative accuracy (typical), the instrument provides stable, high-power output suitable for DWDM evaluation, fiber amplifier testing, and telecommunications research. Wavelength stability reaches ± 100 MHz/h (± 0.8 pm/h) typical, with 0.001 nm set resolution enabling fine spectral tuning. Optical output ranges from -20.0 to $+7.0$ dBm (0.1 dBm steps), with typical power of +8 dBm or greater at 1550 nm and +3 dBm or greater across the full 1520–1620 nm range. Output reproducibility is ± 0.04 dB, and stability holds to ± 0.01 dB over 5 minutes and ± 0.05 dB over 1 hour. The 60 dB side mode suppression ratio (typical) ensures minimal spectral noise for precise measurements. Relative intensity noise measures -145 dB/Hz typical. Continuous wavelength sweep to 100 nm/sec supports rapid spectral mapping. Built-in wavelength standard and calibration function - requiring 30-minute warm-up post-power-on - establish traceability without external references. Internal and external modulation capability (0.2–300 kHz) accommodates dynamic testing protocols. FC/PC connector with 50 dB or greater return loss delivers single-mode fiber coupling. Dimensions are 425 mm (W) $\times$ 177 mm (H) $\times$ 450 mm (D), weighing approximately 20 kg; AC power draw is 150 VA nominal (100–240 VAC, 50/60 Hz).

Technical Specifications

Wavelength range: 1520–1620 nm
Absolute wavelength accuracy: ± 0.1 nm
Relative wavelength accuracy: ± 0.035 nm (typ.)
Wavelength stability: ± 100 MHz/h (± 0.8 pm/h) (typ.)
Wavelength set resolution: 0.001 nm
Optical output range: -20.0 to $+7.0$ dBm
Optical output (1550 nm): +8 dBm or greater
Optical output (1520–1620 nm): +3 dBm or greater
Optical output accuracy: ± 1 dB or less
Optical output reproducibility: ± 0.04 dB
Optical output stability (5 min): ± 0.01 dB or less
Optical output stability (1 h): ± 0.05 dB or less
Optical output flatness: ± 0.1 dB
Side mode suppression ratio: 60 dB (typ.)
Relative intensity noise: -145 dB/Hz (typ.)
Wavelength sweep speed: 100 nm/sec (max.)
Internal modulation frequency: 0.2–300 kHz
External modulation frequency: 0.2–300 kHz
Optical connector: FC/PC (50 dB or greater return loss)
Fiber type: Single-mode fiber (10/125 μ m)
Power requirements: AC 100–240 V, 50/60 Hz, 150 VA (approx.)
Dimensions: 425 (W) $\times$ 177 (H) $\times$ 450 (D) mm
Mass: Approximately 20 kg

Key Features

High wavelength accuracy and long-term stability for component and system evaluation
Continuous sweep to 100 nm/sec for rapid spectral characterization
Built-in wavelength standard with automated calibration function
Low spectral noise: 60 dB SMSR and -145 dB/Hz RIN (typical)
Flexible optical output control: -20 to $+7$ dBm with 0.1 dBm steps
Internal and external modulation capability up to 300 kHz
0.001 nm wavelength resolution for precision tuning

Typical Applications

DWDM system and component evaluation
Optical fiber amplifier characterization
Telecommunications research and development
Spectral response measurement of optical components
Component and subsystem validation in fiber-optic systems

Compatibility & Integration

Single-mode fiber (10/125 μ m) compatible FC/PC optical connector; other connector types upon manufacturer consultation
Standard benchtop AC power (100–240 VAC, 50/60 Hz)
Suitable for laboratory and production test environments

Features & description

From manufacturer datasheet

Built-in wavelength calibration

Shared AQ4320 modulation and stability architecture Technical Specifications Model: AQ4320D
Wavelength Range: 1520 to 1620 nm Optical Output Peak 1560 To 1600 nm: plus 7 dBm typ Optical
Output 1560 To 1600 nm Minimum Class: plus 6 dBm or more at 1550 nm row context per sheet Optical
Output 1540 To 1620 nm: plus 5 dBm or more Optical Output 1520 To 1620 nm: plus 3 dBm or more
SMSR: 50 dB or more Settable Optical Output Range: 20 dB or more in 0.1 dB steps Optical Output
Stability 5 Min: plus or minus 0.01 dB or less Optical Output Stability 1 H: plus or minus 0.05 dB or less
Optical Output Stability 8 H: plus or minus 0.3 dB or less Optical Output Accuracy: plus or minus 1 dB or
less Optical Output Reproducibility: plus or minus 0.04 dB Optical Output Level Flatness: plus or minus
0.1 dB at stated 1540 to 1600 nm conditions RIN: minus 145 dB/Hz typ Internal Modulation CHOP: 0.2 to
300 kHz Wavelength Sweep Speed Max: 100 nm/s Applicable Optical Fiber: SMF 10/125 um Applicable
Connector: FC/PC return loss 50 dB or more Operating Temperature: plus 10 to plus 35 C Storage
Temperature: minus 10 to plus 50 C Power Requirements: AC 100 to 120 V or 200 to 240 V 50/60 Hz
approx 150 VA Dimensions: approx 425 W x 177 H x 450 D mm

AQ4320D Characteristics / Specifications

PARAMETER	VALUE
Model	AQ4320D
Wavelength Range	1520 to 1620 nm
Optical Output Peak 1560 To 1600 nm	plus 7 dBm typ
Optical Output 1560 To 1600 nm Minimum Class	plus 6 dBm or more at 1550 nm row context per sheet
Optical Output 1540 To 1620 nm	plus 5 dBm or more
Optical Output 1520 To 1620 nm	plus 3 dBm or more
SMSR	50 dB or more
Settable Optical Output Range	20 dB or more in 0.1 dB steps
Optical Output Stability 5 Min	plus or minus 0.01 dB or less
Optical Output Stability 1 H	plus or minus 0.05 dB or less
Optical Output Stability 8 H	plus or minus 0.3 dB or less
Optical Output Accuracy	plus or minus 1 dB or less
Optical Output Reproducibility	plus or minus 0.04 dB
Optical Output Level Flatness	plus or minus 0.1 dB at stated 1540 to 1600 nm conditions
RIN	minus 145 dB/Hz typ
Internal Modulation CHOP	0.2 to 300 kHz
Wavelength Sweep Speed Max	100 nm/s
Applicable Optical Fiber	SMF 10/125 um
Applicable Connector	FC/PC return loss 50 dB or more
Operating Temperature	plus 10 to plus 35 C
Storage Temperature	minus 10 to plus 50 C
Power Requirements	AC 100 to 120 V or 200 to 240 V 50/60 Hz approx 150 VA
Dimensions	approx 425 W x 177 H x 450 D mm
Mass	approx 20 kg
Family	Ando AQ4320 series

PARAMETER	VALUE
Return loss	50 dB or more

AQ4320D Specifications

PARAMETER	VALUE
Ando AQ4320D Tunable Laser Source 1520 to 1620 nm	Overview
Key Features	1520 to 1620 nm L-band oriented coverage
Technical Specifications	Model: AQ4320D

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 10 to plus 50 C
Operating temperature	plus 10 to plus 35 C
Operating Temperature	plus 10 to plus 35 C
Power Requirements	AC 100 to 120 V or 200 to 240 V 50/60 Hz approx 150 VA
Dimensions	approx 425 W x 177 H x 450 D mm
Mass	approx 20 kg
Family	Ando AQ4320 series Notes From Ando AQ4320A/4320B/4320D datasheet specification table for AQ4320D. Confirm exact option configuration and wavelength calibration status.

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	AQ4320D
Wavelength Range	1520 to 1620 nm
Optical Output Peak 1560 To 1600 nm	plus 7 dBm typ
Optical Output 1560 To 1600 nm Minimum Class: plus 6 dBm or more at 1550 nm row context per sheet	
Specifications	
PARAMETER	VALUE
Optical Output 1540 To 1620 nm	plus 5 dBm or more
Optical Output 1520 To 1620 nm	plus 3 dBm or more
SMSR	50 dB or more
Settable Optical Output Range	20 dB or more in 0.1 dB steps
Optical Output Stability 5 Min	plus or minus 0.01 dB or less
Optical Output Stability 1 H	plus or minus 0.05 dB or less
Optical Output Stability 8 H	plus or minus 0.3 dB or less
Optical Output Accuracy	plus or minus 1 dB or less
Optical Output Reproducibility	plus or minus 0.04 dB
Optical Output Level Flatness	plus or minus 0.1 dB at stated 1540 to 1600 nm conditions
RIN	minus 145 dB/Hz typ
Internal Modulation CHOP	0.2 to 300 kHz
Wavelength Sweep Speed Max	100 nm/s
Applicable Optical Fiber	SMF 10/125 um
Applicable Connector	FC/PC return loss 50 dB or more
Operating Temperature	plus 10 to plus 35 C
Storage Temperature	minus 10 to plus 50 C
Power Requirements	AC 100 to 120 V or 200 to 240 V 50/60 Hz approx 150 VA
Dimensions	approx 425 W x 177 H x 450 D mm

PARAMETER	VALUE
Mass	approx 20 kg
Family	Ando AQ4320 series

Notes
From Ando AQ4320A/4320B/4320D datasheet specification table for AQ4320D. Confirm exact option configuration and wavelength calibration status.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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