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Data Sheet

August 2, 2026

ANDO

Ando AQ8201-33 Optical Attenuator Module

The AQ820133 provides a single-slot high-resolution L-band optical attenuator module for the Ando/Yokogawa AQ8201 series, covering 1480 to 1650 nm with 60 dB maximum attenuation and 0.001 dB minimum step size. L-band and C/L optical power leveling in AQ8201 modular test systems; high-resolution attenuation for DWDM component and EDFA characterization; automated attenuation control with shutter isolation in multi-module optical benches. L-band and C/L optical power leveling in AQ8201 modular test systems; high-resolution attenuation for DWDM component and EDFA characterization; automated attenuation control with shutter isolation in multi-module optical benches.



Artisan Technology Group

MODEL

Ando AQ8201-33

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ8201-33

LISTING

<https://aumictechlabs.com/products/aq8201-33-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ando AQ8201-33 is a precision optical attenuator module designed for integration into Ando AQ8200 series mainframes. It has variable attenuation of optical signals across the L-band, enabling accurate control of signal power for testing, calibration, and characterization of optical components and systems. The module accepts singlemode fiber signals via FC/APC connectors and delivers attenuation up to 60 dB with minimal insertion loss and polarization-dependent loss, making it suitable for DWDM and broadband optical testing applications. Technical Specifications Wavelength Range: 1480 to 1650 nm (L-Band) Maximum Attenuation: 60 dB Maximum Input

Power: +23 dBm Insertion Loss (1550 nm): Typically 0.0068 dB Polarization Dependent Loss (1550 nm): Typically 0.0166 dB Applicable Fiber: Singlemode 9/125 μm Optical Interface: FC/APC
Module Configuration: Single slotKey Features Precise, variable optical attenuation for signal loss simulation and system tolerance evaluation Low insertion loss and minimal polarization-dependent loss ensure high measurement fidelity L-band wavelength coverage makes it ideal for long-wavelength DWDM component testing Accommodates input signals up to +23 dBm without degradation Integrates directly into compatible Ando mainframe chassisTypical Applications Signal loss emulation over extended fiber spans and network components Optical power meter calibration and verification System tolerance testing under varying signal power conditions Characterization of optical devices and subsystems DWDM component testing, including MUX/DEMUX, arrayed waveguide gratings, and EDFA modulesCompatibility & Integration The AQ8201-33 occupies a single module slot and is compatible with Ando AQ8200 series mainframes including AQ8201A, AQ8202, AQ8203, and AQ8204. Note that some AQ8201-4xx optical switch modules may not be compatible with the AQ8201A but operate in AQ8202, AQ8203, and AQ8204 platforms.

Features & description

From manufacturer datasheet

Features

- High-resolution ATTN module for L-band, 1 slot
- Wavelength range 1480 to 1650 nm
- Maximum attenuation 60 dB
- Minimum attenuation step 0.001 dB
- Insertion loss 2.5 dB or less (1550 nm)
- Attenuation deviation within ± 0.1 dB (1520 to 1620 nm)
- Repeatability ± 0.005 dB (typ.)
- Optical return loss 60 dB or more (1550 nm)
- PDL 0.05 dB P-P (typ.) at 1550 nm
- Maximum input +23 dBm; shutter isolation 100 dB or more
- SM 9/125 μm ; FC/Angled PC

AQ8201 Characteristics / Specifications

PARAMETER	VALUE
Model	AQ8201-33
Manufacturer	Ando Electric / Yokogawa
Instrument Type	High-Resolution Optical Attenuator Module (L-band)
Mainframe	AQ8201A / AQ8202 / AQ8203 / AQ8204 series
Slot Width	1 slot
Wavelength Range	1480 to 1650 nm
Maximum Attenuation	60 dB
Minimum Step	0.001 dB
Insertion Loss	≤2.5 dB (1550 nm)
Attenuation Deviation	within ±0.1 dB (1520–1620 nm)
Repeatability	±0.005 dB (typ.)
Max Input Power	+23 dBm
Related Modules	AQ8201-32 (1200–1600 nm, 0.01 dB step); AQ8201-32A (L-band, 0.01 dB); AQ8201-33M (L-band with monitor)
Alias	AQ820133 Standard Operating Conditions Install incompatible AQ8201-series slot. Use angled-PC master cords. Warm up one hour; specifications at fixed temperature within 25 °C class. Operational Notes AQ8201-33 is the 0.001 dB L-band high-resolution attenuator—distinct from AQ8201-32 (C-band, 0.01 dB) and 32A (L-band, 0.01 dB). Alias AQ820133.
Optical Return Loss	60 dB or more (1550 nm) - PDL 0.05 dB P-P (typ.) at 1550 nm - Maximum input +23 dBm; shutter isolation 100 dB or more - SM 9/125 μm; FC/Angled PC
Attenuation	and 0.001 dB minimum step size.
Return loss	60 dB or more (1550 nm) - PDL 0.05 dB P-P (typ.) at 1550 nm - Maximum input +23 dBm; shutter isolation 100 dB or more - SM 9/125 μm; FC/Angled PC

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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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.