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Data Sheet

August 2, 2026

ANDO

Ando AQ8201-11 WDM DFB Laser Diode Module

Ando AQ8201-11 WDM DFB Laser Diode Module The AQ820111 provides a single-slot WDM DFB laser diode light-source module for the Ando/Yokogawa AQ8201 series optical test system, offering selectable C-band ITU wavelengths with built-in attenuation, coherence control, and chop modulation for DWDM component evaluation. DWDM transmitter and MUX/DEMUX stimulus; EDFA and passive WDM component characterization; multi-channel optical test benches using AQ8201A/AQ8202/AQ8203/AQ8204 mainframes; SMSR and wavelength-stability verification of DFB sources. The AQ820111 provides a single-slot WDM DFB laser diode light-source module for the Ando/Yokogawa AQ8201 series optical test system, offering selectable C-band ITU wavelengths with built-in attenuation, coherence control, and chop modulation for DWDM component evaluation. DWDM transmitter and MUX/DEMUX stimulus; EDFA and passive WDM component characterization; multi-channel optical test benches using AQ8201A/AQ8202/AQ8203/AQ8204 mainframes; SMSR and wavelength-stability verification of DFB sources.



MODEL

Ando AQ8201-11

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ8201-11

LISTING

<https://aumictechlabs.com/products/aq8201-11-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ando AQ8201-11 is a WDM DFB laser diode module that delivers a stable, precision light source for optical communication systems and test equipment. It has accurate wavelength control

across the C-band with exceptional spectral purity and output power stability, making it ideal for DWDM component characterization and fiber optic system validation.

Technical Specifications

Wavelength Range: 1524.11 nm to 1570.01 nm Center Wavelength Accuracy: ± 0.15 nm Wavelength Tuning Range: ± 0.8 nm Wavelength Stability: ± 0.005 nm (15 min), ± 0.01 nm (24 hr) Output Power: +10 dBm minimum; measured maximum +11.23 dBm Output Power Stability: ± 0.005 dB (15 min), ± 0.03 dB (24 hr) Spectral Width: 5 MHz or less (Coherence Control OFF); 50 MHz typical (Coherence Control ON) SMSR: 30 dB or greater RIN: -145 dB/Hz Optical Isolation: 55 dB or greater Optical Attenuation: 10 dB range in 0.01 dB steps Fiber Type: Single-mode 9/125 μ m Optical Connector: FC/APC Key Features Internal and external modulation support: 100 Hz to 300 kHz (sine or CHOP) External modulation input: SMA connector, 2 Vp-p at 50 Ω Narrow linewidth and high side-mode suppression for coherent and direct-detection applications Single-slot module design integrates into Ando AQ8200 Series mainframes GPIB communication support via compatible mainframes

Typical Applications WDM and DWDM system testing MUX/DEMUX, AWG, and EDFA component evaluation Fiber optic communication system characterization Optical signal generation for laboratory and production test

Compatibility & Integration The AQ8201-11 operates within Ando AQ8201A, AQ8203, and AQ8204 mainframes as part of the AQ8200 Series Optical Test and Measurement System ecosystem.

Features & description

From manufacturer datasheet

Features

- WDM DFB-LD light source module (1 slot)
- Available wavelength range 1524.11 to 1570.01 nm (select from wavelength table)
- Center wavelength $\lambda_p \pm 0.15$ nm; wavelength accuracy within ± 0.05 nm
- Optical output +10 dBm or more (AQ8201-11)
- SMSR 30 dB or more
- Optical attenuation range 10 dB (0.01 dB step)
- Coherence control ON: 50 MHz (typ.); OFF: 5 MHz or less spectral width
- Internal CHOP modulation 100 Hz to 300 kHz; external sine modulation 100 Hz to 300 kHz
- Optical isolation 55 dB or more; RIN -145 dB/Hz
- SM 10/125 μ m fiber; FC/Angled PC connector

AQ8201 Characteristics / Specifications

PARAMETER	VALUE
Model	AQ8201-11
Manufacturer	Ando Electric / Yokogawa
Instrument Type	WDM DFB Laser Diode Module (Light Source)
Mainframe	AQ8201A, AQ8202, AQ8203, AQ8204 series
Slot Width	1 slot
Available Wavelength Range	1524.11 to 1570.01 nm
Wavelength Accuracy	within ± 0.05 nm
Optical Output Level	+10 dBm or more
SMSR	30 dB or more
Attenuation Range	10 dB (0.01 dB step)
Wavelength Tuning Range	1.6 nm (min.)
Applicable Fiber	SM (10/125 μ m)
Related Variants	AQ8201-11A (PM fiber); AQ8201-11B (L-band); AQ8201-110 (later series)
Alias	AQ820111 Standard Operating Conditions Install incompatible AQ8201-series mainframe slot with adequate thermal capacity (note derating when many DFB modules operate together). Select wavelength from the AQ8201-11 available-wavelength table. Use angled-PC master cords for return-loss-sensitive measurements.
Coherence control ON	50 MHz (typ.); OFF: 5 MHz or less spectral width
Wavelength range	1524.11 to 1570.01 nm (select from wavelength table) - Center wavelength $\lambda_p \pm 0.15$ nm; wavelength accuracy within ± 0.05 nm - Optical output +10 dBm or more (AQ8201-11) - SMSR 30 dB or more - Optical attenuation range 10 dB (0.01 dB step) - Coherence c
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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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PARAMETER	VALUE
Model	AQ8201-11
Manufacturer	Ando Electric / Yokogawa
Instrument Type	WDM DFB Laser Diode Module (Light Source)
Mainframe	AQ8201A, AQ8202, AQ8203, AQ8204 series
Slot Width	1 slot
Available Wavelength Range	1524.11 to 1570.01 nm
Wavelength Accuracy	within ±0.05 nm
Optical Output Level	+10 dBm or more
SMSR	30 dB or more
Attenuation Range	10 dB (0.01 dB step)
Wavelength Tuning Range	1.6 nm (min.)
Applicable Fiber	SM (10/125 μm)
Related Variants	AQ8201-11A (PM fiber); AQ8201-11B (L-band); AQ8201-110 (later series)
Alias	AQ820111
Standard Operating Conditions	
Install incompatible AQ8201-series mainframe slot with adequate thermal capacity (note derating when many DFB modules operate together). Select wavelength from the AQ8201-11 available-wavelength table. Use angled-PC master cords for return-loss-sensitive measurements.	
Operational Notes	
AQ8201-11 is the standard SM C-band DFB module—distinct from 11A (PM), 11B (L-band), and later AQ8201-110. Confirm engraved wavelength option on the module. Alias AQ820111.	

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>

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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.