

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

ANDO

Ando AQ8201-21 Optical Power Meter Module

Ando AQ8201-21 Optical Power Meter Module The AQ820121 provides a single-slot cooled-InGaAs optical power meter module for the Ando/Yokogawa AQ8201 series, covering 700 to 1700 nm with a wide CW power range of -80 to +27 dBm for single-channel optical power measurements. Single-channel optical power monitoring in AQ8201 mainframes; EDFA and high-power optical path measurements up to +27 dBm CW; multimode and small-diameter silica fiber emission measurements; automated power logging via GP-IB-controlled AQ8201 systems. The AQ820121 provides a single-slot cooled-InGaAs optical power meter module for the Ando/Yokogawa AQ8201 series, covering 700 to 1700 nm with a wide CW power range of -80 to +27 dBm for single-channel optical power measurements. Single-channel optical power monitoring in AQ8201 mainframes; EDFA and high-power optical path measurements up to +27 dBm CW; multimode and small-diameter silica fiber emission measurements; automated power logging via GP-IB-controlled AQ8201 systems.



MODEL

Ando AQ8201-21

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ8201-21

LISTING

<https://aumictechlabs.com/products/aq8201-21-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ando AQ8201-21 is a high-sensitivity optical power meter module designed for accurate, real-time measurement of optical power in fiber optic networks. Built around a cooled InGaAs detector, it integrates into Ando AQ8201 Series mainframes as a single-slot module, enabling deployment

across laboratory characterization, component testing, and telecommunications network maintenance workflows.

Technical Specifications

Detector Type: Cooled InGaAs

Wavelength Range: 600 to 1700 nm or 700 to 1700 nm

Power Range (CW Light): -80 to +27 dBm or -80 to +10 dBm

Power Range (Chopped Light): -80 to +24 dBm

Inaccuracy (Reference Condition): $\pm 2.5\%$ at 1310 nm calibration point

Total Accuracy: $\pm 5\%$ (1000 to 1650 nm)

Linearity: ± 0.05 dB (1000 to 1650 nm, -40 to +27 dBm)

Noise Floor: -73 dBm or less (CW and chopped light)

Polarization Dependent Loss: 0.02 dB P-P typical at 1550 nm (single-mode fiber)

Key Features

Cooled InGaAs detector provides extended wavelength coverage and superior sensitivity across the 600–1700 nm band

Wide dynamic range supports both continuous-wave and chopped light measurement modes

Excellent linearity specification ensures accurate power tracking across a 67 dB span

Low noise floor enables detection of weak optical signals

Minimal polarization-dependent loss ensures repeatable measurements regardless of input polarization state

Optimized for small-diameter silica fiber emission characterization

Connector Options

Standard configuration ships with AQ9389B FC adapter. Optional interfaces include FC, ST, SC, 1.25 mm, and LC connector types, enabling integration with existing test infrastructure.

Compatibility & Integration

The AQ8201-21 slots directly into Ando AQ8201, AQ8202, and AQ8203 mainframes, as well as AQ8204 units. Full integration within the Ando AQ8200 Series Optical Test and Measurement System architecture is supported.

Features & description

From manufacturer datasheet

Features

- Single-channel OPM module, 1 slot
- Wavelength range 700 to 1700 nm
- Photodetector: cooled InGaAs
- Power range CW -80 to +27 dBm; chopped -80 to +24 dBm
- Polarization dependent loss 0.02 dB P-P (typ.)
- Reference inaccuracy $\pm 2.5\%$ (at 1310 nm calibration point)
- Total accuracy $\pm 5\%$ (1000 to 1650 nm)
- Linearity ± 0.05 dB (1000 to 1650 nm, -40 to +27 dBm)
- Noise -73 dBm or less (CW, specified conditions)
- AQ9389B (FC) connector adapter standard

AQ8201 Characteristics / Specifications

PARAMETER	VALUE
Model	AQ8201-21
Manufacturer	Ando Electric / Yokogawa
Instrument Type	Optical Power Meter Module
Mainframe	AQ8201A / AQ8202 / AQ8203 / AQ8204 series
Slot Width	1 slot
Wavelength Range	700 to 1700 nm
Detector	Cooled InGaAs
Power Range (CW)	−80 to +27 dBm
Power Range (Chopped)	−80 to +24 dBm
Reference Accuracy	±2.5% at 1310 nm (specified conditions)
Total Accuracy	±5% (1000 to 1650 nm)
Linearity	±0.05 dB (1000–1650 nm, −40 to +27 dBm)
Related Module	AQ8201-22 (dual channel, −80 to +10 dBm, 1280–1700 nm)
Alias	AQ820121 Standard Operating Conditions Install incompatible AQ8201-series slot. Use AQ9389B-class adapters; recalibrate if adapters are changed. Warm up one hour; specifications at 23±5 °C fixed temperature. Operational Notes
Photodetector	cooled InGaAs

AQ8201 Specifications

PARAMETER	VALUE
Key Features	- Single-channel OPM module, 1 slot
Technical Specifications	Model: AQ8201-21
Operational Notes	AQ8201-21 is single-channel with high upper power (+27 dBm)—distinct from dual AQ8201-22. Alias AQ820121.

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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Related Module	AQ8201-22 (dual channel, -80 to +10 dBm, 1280-1700 nm)
Alias	AQ820121
Standard Operating Conditions	
Install incompatible AQ8201-series slot. Use AQ9389B-class adapters; recalibrate if adapters are changed. Warm up one hour; specifications at 23±5 °C fixed temperature.	
Operational Notes	
AQ8201-21 is single-channel with high upper power (+27 dBm)-distinct from dual AQ8201-22. Alias AQ820121.	

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.