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Data Sheet
August 14, 2026

EXFO

Exfo IQ-1623 2-Channel High-Speed Power Meter

Exfo Optical Power Meters. Channels: 2 (simultaneous), Dynamic Range: Up to 80 dB, Wavelength: dependent power monitoring.

MODEL **Exfo IQ-1623**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **IQ-1623**	LISTING **https://aumictechlabs.com/products/iq-1623-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Exfo IQ-1623 is a 2-channel high-speed optical power meter engineered for precise measurements across demanding telecommunications, research, and manufacturing environments. Built on the IQ-1600 Series platform, this instrument delivers simultaneous dual-channel monitoring with rapid stabilization and high sampling capability, making it ideal for WDM component characterization, continuous power level tracking, and production line testing. Technical Specifications Optical Performance Detector Type: InGaAs Wavelength Range: 800 nm to 1700 nm Power Measurement Range: -85 dBm to +6 dBm Number of Channels: 2 (simultaneous) Dynamic Range: Up to 80 dB Polarization-Dependent Response (low-PDR option): ±0.005 dB Sampling & Response Continuous Mode: Up to 256 samples per second High-Speed Acquisition Mode: Up to 4096 samples per second Stabilization Time (automatic gain): Within 15 ms for ≤95 dB fluctuations Stabilization Time (manual gain): As little as 1 ms Triggering & Control Trigger Types: Power level trigger; TTL voltage trigger (0 to 5 V) Channel Synchronization: Simultaneous synchronization of all optical channels Display & User Interface Graphical interface with configurable measurement displays Graph Mode supports up to four simultaneous curves

Real-time display in Continuous mode; post-processed display for high-speed acquisitions Min/max signal tracking capability Physical & Environmental Dimensions: 12 cm (H) × 3.8 cm (W) × 26.2 cm (D) Weight: 0.7 kg Operating Temperature: 0 °C to 50 °C Storage Temperature: -35 °C to 70 °C Relative Humidity: 0 % to 80 % non-condensing Key Features Dual independent channel architecture enables parallel optical signal analysis Fast automatic gain switching with 15 ms stabilization across 95 dB dynamic range Flexible manual gain mode option for sub-millisecond response requirements TTL and power-level trigger inputs for test synchronization Compact form factor (0.7 kg) supports bench and system integration Typical Applications WDM component testing and validation Assembly line optical power verification Continuous wavelength-dependent power monitoring Multi-channel signal characterization in R&D environments Compatibility & Integration Designed for integration with the IQS-500/600 Intelligent Test System. Compatible with other IQ Series instruments for expanded test capability.

IQ1623 Characteristics / Specifications

PARAMETER	VALUE
Model	IQ-1623 / PM-1623
Number Of Detectors	2
Detector Type	InGaAs
Detector Size	1 mm
Wavelength Range	800 to 1700 nm
Power Range	9 to minus 80 dBm
Uncertainty	plus or minus 5 percent from 0 to minus 55 dBm
Linearity	plus or minus 0.015 dB from 0 to minus 55 dBm
Noise Peak To Peak	3 pW
Power Resolution	0.001 dB from 9 to minus 40 dBm
Wavelength Resolution	0.01 nm
Stabilization Time Automatic Range	12 ms from 9 to minus 80 dBm
Stabilization Time Fixed Range	1 ms
Sampling Rate Fast Acquisition	up to 4096 sample/s/channel
Sampling Rate Continuous	up to 256 sample/s/channel
Fiber Type	5/125 to 62.5/125 um
External Trigger Input	0 to 5 V TTL
Size Stand Alone HxWxD	117 mm x 222 mm x 333 mm
Weight Stand Alone	2.8 kg
Operating Temperature	0 C to 40 C
Storage Temperature	minus 35 C to 70 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control Stand Alone	GPIB and RS-232
Platform Module Form	IQ-200 single-slot class module
Humidity	0 percent to 80 percent non-condensing

IQ1623 Specifications

PARAMETER	VALUE
Two independent InGaAs detectors	Up to 4096 samples per second per channel
Plus or minus 0.015 dB linearity	0.001 dB power resolution
Technical Specifications	Model: IQ-1623 / PM-1623

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 35 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	0 percent to 80 percent non-condensing
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control Stand Alone	GPIB and RS-232
Platform Module Form	IQ-200 single-slot class module Notes From EXFO PM-1100/PM-1600 datasheet SPPM1100/1600.3AN PM-1623 column; IQ-1623 is the IQ-200 modular counterpart with the same optical detector rows. Specs at 1310 nm after warmup and offset nulling unless noted.

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	IQ-1623 / PM-1623
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Weight Stand Alone	2.8 kg
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Storage Temperature	minus 35 C to 70 C
Relative Humidity	0 percent to 80 percent non-condensing
Remote Control Stand Alone	GPIB and RS-232
Platform Module Form	IQ-200 single-slot class module

Notes
From EXFO PM-1100/PM-1600 datasheet SPPM1100/1600.3AN PM-1623 column; IQ-1623 is the IQ-200 modular

counterpart with the same optical detector rows. Specs at 1310 nm after warmup and offset nulling unless noted.

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

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