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Data Sheet

August 13, 2026

ADVANTEST

Advantest Q8492 Optical Time Domain Reflectometers

Advantest Q8492 Coherent OTDR for WDM Amplifier Systems The Advantest Q8492 is a coherent optical time-domain reflectometer (C-OTDR) for fault localization on multi-repeated WDM optical amplifier transmission systems up to 15,000 km. Precise tunable sources covering 1530 to 1570 nm, 17 dB typical dynamic range, and dual-unit OTDR plus light-source architecture support submarine and long-haul amplifier plant maintenance. The Advantest Q8492 is a coherent optical time-domain reflectometer (C-OTDR) for fault localization on multi-repeated WDM optical amplifier transmission systems up to 15,000 km. Precise tunable sources covering 1530 to 1570 nm, 17 dB typical dynamic range, and dual-unit OTDR plus light-source architecture support submarine and long-haul amplifier plant maintenance.



MODEL

Advantest Q8492

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8492

LISTING

<https://aumictechlabs.com/products/q8492-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest Q8492 is a Coherent Optical Time Domain Reflectometer (C-OTDR) engineered for high-resolution characterization and testing of optical fiber networks. Using advanced coherent detection, it delivers accurate fiber analysis with an integrated laser source providing stable output power and wavelength. The instrument combines high dynamic range performance with

multi-wavelength capability, enabling detection of small reflections and attenuations across long-distance fiber links. Operation is straightforward through an intuitive graphical interface, with remote monitoring and control support for centralized management across telecommunications, data center, and field maintenance environments.

Technical Specifications

Technology: Coherent Optical Time Domain Reflectometer (C-OTDR)

Laser Classification: Class 3A (IEC 825 compliant)

Operating Position: Horizontal

Storage Position: Horizontal (or vertical for transport with proper securing)

Standards Compliance: EMC Directive 89/336/EEC (EN50081-1, EN50082-1); Low Voltage Directive 73/23/EEC (EN61010-1)

Key Features

- Coherent C-OTDR technology for high-resolution measurements and accurate fiber characterization
- Integrated laser source with stable output power and wavelength
- High dynamic range for detecting small reflections and attenuations in long-distance fiber links
- Multiple wavelength support including 1310 nm and 1550 nm transmission windows
- Fast measurement speed for efficient testing and troubleshooting
- User-friendly interface with intuitive controls and graphical displays
- Remote monitoring and control capabilities
- GPIB connectivity for automated controller-based operation and programming
- Integrated talkset function for communication during testing
- Floppy disk drive for data storage, retrieval, and configuration management

Laser Safety Class 3A laser output. Direct viewing of laser beam through connectors prohibited - risk of irreversible eye damage. Adhere to all safety precautions in operation manual.

Interfaces and Connectivity

- GPIB (General Purpose Interface Bus)
- OUTPUT connector (OTDR unit front panel)
- MONITOR A and MONITOR B connectors (OTDR unit front panel)
- OPTICAL OUTPUT A and OPTICAL OUTPUT B connectors (Light Source unit rear panel)
- Floppy disk drive
- Integrated talkset

Typical Applications

- Telecommunications network testing and certification
- Data center fiber infrastructure maintenance
- Field deployment and troubleshooting of optical networks
- Long-distance fiber characterization and analysis

Features & description

From manufacturer datasheet

Features

- Tunable wavelength 1530 to 1570 nm
- Wavelength setting resolution 0.05 nm or less
- Distance range to 15,000 km
- Dynamic range 17 dB typical example
- Channel/wavelength conversion table up to 100 CH
- Built-in thermal printer and 3.5 inch FDD with GPIB

Applications

- Fault localization on optically amplified submarine cables
- Channel monitoring on multi-repeated WDM systems
- Branch line monitoring out of service and in service
- Remotely pumped amplifier gain and fault measurements

Q8492 Characteristics / Specifications

PARAMETER	VALUE
Model	Q8492
Manufacturer	Advantest
Instrument Type	Coherent OTDR
Alias	Q8492; Advantest Q8492 C-OTDR
Wavelength adjustable range	1530 to 1570 nm
Wavelength setting resolution	0.05 nm
Wavelength accuracy	plus or minus 0.025 nm
Optical output power 1530 to 1565 nm	plus 2 to plus 10 dBm adjustable
Optical output power 1565 to 1570 nm	plus 2 to plus 5 dBm adjustable
Output pulse width	3 10 30 60 100 us
Spatial resolution settings	0.3 1 3 6 10 km
Dead zone	1.5 km
Dynamic range typical example	17.0 dB
Measurement time example at 1000 km	12 minutes typical
Distance range	100 to 15,000 km
Distance span settings	5 to 15,000 km selectable steps
Reading resolution horizontal	10 m to 30 km
Distance accuracy	plus or minus 50 m plus or minus 5e-6 times measurement
Index setup	1.4000 to 1.7000 in 0.0001 steps
Vertical scale	0.2 to 5 dB/div
Reading resolution vertical	0.001 dB
Channel wavelength table	up to 100 channels
GPIB	IEEE488-1978
Printer	built-in thermal printer
FDD	3.5 inch

PARAMETER	VALUE
Power supply	100/120/220/240 V selectable 50/60 Hz
OTDR unit dimensions	approx 424 × 265 × 500 mm
Light source unit dimensions	approx 424 × 132 × 500 mm
OTDR unit mass	25 kg or less
Light source unit mass	27 kg or less
Operating temperature	plus 10 to plus 35 C
Publication	Advantest Q8492-003E Aug 2003 Notes Specs from Advantest Q8492 Coherent OTDR datasheet Bulletin Q8492-003E. Confirm dual-unit cable set, wavelength table contents, and in-service vs out-of-service performance on the system.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 10 to plus 35 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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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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NIST-traceable calibration · SAM registered ·
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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.