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Data Sheet

August 1, 2026

ANRITSU

Anritsu MW9076J Optical Time Domain Reflectometer

The Anritsu MW9076J is a single-wavelength graded-index (GI) multimode mini-OTDR in the MW9076 series. It operates at 0.85 μm (± 30 nm) on 62.5/125 μm GI fiber for multimode LAN and premise cable testing. Dynamic range is typically 21 dB (S/N=1). Fresnel/backscatter dead zones are about 2/7 m. Like other MW9076 optical units, it requires a MU250000A display unit (8.4-inch TFT-LCD). The dual-wavelength sibling is the MW9076K (0.85/1.3 μm). Anritsu lists the MT9085 series as the replacement platform. 850 nm multimode GI fiber fault location and loss measurement; LAN and premise cabling I&M; short dead-zone near-end event characterization; field OTDR work with MW9076 display unit. Anritsu MW9076J Optical Time Domain Reflectometer The Anritsu MW9076J is a single-wavelength graded-index (GI) multimode mini-OTDR in the MW9076 series. It operates at 0.85 μm (± 30 nm) on 62.5/125 μm GI fiber for multimode LAN and premise cable testing. Dynamic range is typically 21 dB (S/N=1). Fresnel/backscatter dead zones are about 2/7 m. Like other MW9076 optical units, it requires a MU250000A display unit (8.4-inch TFT-LCD). The dual-wavelength sibling is the MW9076K (0.85/1.3 μm). Anritsu lists the MT9085 series as the replacement platform.



MODEL

Anritsu MW9076J

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MW9076J

LISTING

<https://aumictechlabs.com/products/mw9076j-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MW9076J is a field-deployable Optical Time Domain Reflectometer engineered for fiber characterization, fault detection, and maintenance across installation and operational lifecycles. It delivers fast trace acquisition with a 30 dB typical dynamic range, supporting both 0.85 μm and 1.3 μm wavelengths on graded-index fiber. The instrument acquires complete waveforms in 10 seconds during Full-Auto mode and performs real-time sweeps in 0.1 to 0.2 seconds or less, enabling rapid field diagnostics.

Technical Specifications

Wavelengths: 0.85 μm and 1.3 μm
Dynamic Range: 30 dB typical (62.5 μm GI fiber); reduces ~ 3.0 dB on 50/125 μm GI fiber
Pulse Width: 100 ns (0.85 μm), 1 μs (1.3 μm); automatic detection and display
Distance Accuracy: $\pm 1 \text{ m} \pm 3 \times 10^{-5} \times \text{measurement distance}$ $\pm$ marker resolution
Loss Accuracy (Linearity): $\pm 0.05 \text{ dB/dB}$ or $\pm 0.1 \text{ dB}$ (greater value applies)
Return Loss Accuracy: $\pm 2 \text{ dB}$
Measurement Time (Full Auto): Up to 60 seconds; waveform display in 10 seconds
Real-time Sweep: 0.1–0.2 seconds or less
Detected Events: Up to 99 per trace
Memory: Approximately 18 MB internal storage
Fiber Support: Graded-index, 62.5 μm core, NA 0.275 $\pm$ 0.015

Key Features

Automatic measurement of distance range, pulse width, and averaging count
Full-Auto and Auto modes for hands-free fault location
Connection quality check and communication light detection
Waveform storage in Bellcore SOR (GR-196-CORE, SR-4731) or Anritsu SOR format
Multi-parameter analysis: transmission loss, connection loss, return loss, reflection amount, total return loss, and per-unit-length loss
Class 1 laser safety (21CFR, IEC 60825-1)

Typical Applications

Fiber installation acceptance testing
In-service link troubleshooting and fault location
Splice and connector loss characterization
Event detection and return-loss assessment

Compatibility & Integration

RS-232C serial interface for data transfer to external PC
Remote command control capability for automated measurement sequences
Centronics printer interface for hardcopy output
VGA output terminal support
Lithium-ion battery pack (6 hours typical operation, 35 W max. power consumption)

Features & description

From manufacturer datasheet

Features

- Single-wavelength GI multimode OTDR (0.85 μm)
- Short dead zone for near-end events (about 2 m Fresnel / 7 m backscatter)
- Part of MW9076 mini-OTDR family with high-speed full-auto measurement (about 10 s)
- Requires MU250000A color display unit
- Waveform storage in Bellcore SOR or Anritsu formats
- Lithium-ion battery operation (series)

MW9076J Characteristics / Specifications

PARAMETER	VALUE
Model	MW9076J
Manufacturer	Anritsu
Instrument Type	Mini OTDR optical unit – GI multimode single wavelength
Fiber	62.5/125 um GI (note: 50/125 um measurements typically reduce dynamic range by about 3 dB)
Wavelength	0.85 um +/-30 nm
Dynamic Range	21 dB typical (S/N=1)
Dead Zone Fresnel / Backscatter	2 / 7 m
Pulse Widths (examples)	10, 20, 50, 100 ns
Display Unit Required	MU250000A (8.4 in TFT-LCD)
Sampling / Resolution (series)	up to 50,000 points; 5 cm high resolution class
Laser Safety	21CFR Class 1, IEC 60825-1 Class 1 Related Models
MW9076K	dual-wavelength GI OTDR at 0.85/1.3 um (21/25 dB)
MW9076B / MW9076C	single-mode units for long-haul SMF

MW9076J Specifications

PARAMETER	VALUE
Anritsu MW9076J Optical Time Domain Reflectometer	Overview
Key Features	- Single-wavelength GI multimode OTDR (0.85 um)
Technical Specifications	Model: MW9076J
Related Models	MW9076K: dual-wavelength GI OTDR at 0.85/1.3 um (21/25 dB)
Operational Notes	MW9076J is the optical unit; confirm display unit and battery are included. For 1300 nm multimode testing, use MW9076K instead.

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	MW9076J
Manufacturer	Anritsu
Instrument Type	Mini OTDR optical unit – GI multimode single wavelength
Fiber	62.5/125 um GI (note: 50/125 um measurements typically reduce dynamic range by about 3 dB)
Wavelength	0.85 um +/-30 nm
Dynamic Range	21 dB typical (S/N=1)
Dead Zone Fresnel / Backscatter	2 / 7 m
Pulse Widths (examples)	10, 20, 50, 100 ns
Display Unit Required	MU250000A (8.4 in TFT-LCD)
Sampling / Resolution (series)	up to 50,000 points; 5 cm high resolution class

Real-Time Sweep (series): about 0.15 s

Laser Safety: 21CFR Class 1, IEC 60825-1 Class 1

Related Models

MW9076K: dual-wavelength GI OTDR at 0.85/1.3 um (21/25 dB)

MW9076B / MW9076C: single-mode units for long-haul SMF

MT9085A-063: modern hybrid SM/MM ACCESS Master option including 850/1300 nm MM

Standard Operating Conditions

Mate only with MU250000A display. Clean multimode connectors. Select correct fiber core size and IOR.

Averaging for published dynamic range typically uses 100 ns pulse and 180 s average at 25 C.

Operational Notes

MW9076J is the optical unit; confirm display unit and battery are included. For 1300 nm multimode testing, use MW9076K instead.

Laser Safety

Laser Safety: 21CFR Class 1, IEC 60825-1 Class 1 Related Models MW9076K: dual-wavelength GI OTDR at 0.85/1.3 um (21/25 dB) MW9076B / MW9076C: single-mode units for long-haul SMF MT9085A-063: modern hybrid SM/MM ACCESS Master option including 850/1300 nm MM Standard Operating Conditions Mate only with MU250000A display. Clean multimode connectors. Select correct fiber core size and IOR. Averaging for publish

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 ·
30-day returns
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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.