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Data Sheet

August 1, 2026

ANRITSU

Anritsu MW9076C High Performance OTDR

Anritsu MW9076C High Performance Optical Time Domain Reflectometer The Anritsu MW9076C is a high-performance three-wavelength single-mode mini-OTDR in the MW9076 series for installation and maintenance of SM fiber, including the 1625 nm monitoring window. It provides dynamic range of 41.5 / 39.5 / 37 dB at 1.31 / 1.55 / 1.625 μ m with Fresnel/backscatter dead zones of 1.6 / 8 m. Built-in light source and optical power meter functions are supported. Like other MW9076 optical units, it requires a MU250000A 8.4-inch TFT-LCD display unit. Compared with MW9076B (45/43 dB at two wavelengths), the MW9076C adds 1625 nm at a slightly lower dual-window dynamic range. Anritsu lists the MT9085 series as the replacement platform. The Anritsu MW9076C is a high-performance three-wavelength single-mode mini-OTDR in the MW9076 series for installation and maintenance of SM fiber, including the 1625 nm monitoring window. It provides dynamic range of 41.5 / 39.5 / 37 dB at 1.31 / 1.55 / 1.625 μ m with Fresnel/backscatter dead zones of 1.6 / 8 m. Built-in light source and optical power meter functions are supported. Like other MW9076 optical units, it requires a MU250000A 8.4-inch TFT-LCD display unit. Compared with MW9076B (45/43 dB at two wavelengths), the MW9076C adds 1625 nm at a slightly lower dual-window dynamic range. Anritsu lists the MT9085 series as the replacement platform. Long-distance SM fiber ins



MODEL

Anritsu MW9076C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MW9076C

LISTING

<https://aumictechlabs.com/products/mw9076c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MW9076C is a mini-OTDR (Optical Time Domain Reflectometer) engineered for field installation, maintenance, and fault location in single-mode optical fiber networks. Delivering dynamic range up to 45 dB typical with a Fresnel dead zone of 1.6 m and back-scattered dead zone of 8 m, the unit has 5 cm resolution across 50,000 sampling points. Measurement cycle times span from 10 seconds in Full-Auto mode to 0.15 seconds in Real-time Sweep, enabling rapid network diagnostics and commissioning workflows.

Technical Specifications

Model: Anritsu MW9076C

Fiber Type: Single-Mode (SM) optical fiber per ITU-T G.652

Operating Wavelengths: 1310 nm, 1550 nm, 1625 nm (L-band)

Dynamic Range: 41.3 dB @ 1310 nm | 39.5 dB @ 1550 nm | 37 dB @ 1625 nm (typical); up to 45 dB typical

Dead Zone: Fresnel 1.6 m / Back-scattered 8 m

Resolution: 5 cm

Sampling Points: 50,000

Measurement Speed: Full-Auto 10 seconds | Real-time Sweep 0.15 seconds

Display: 8.4-inch color TFT-LCD, 640 × 480 pixels, backlit transparent type

Power Supply: 100–250 VAC, 50/60 Hz, ≤50 VA max. (AC adapter)

Data Storage: ~18 MB internal memory; Bellcore SOR or Anritsu format; RS-232C transfer to PC

Laser Safety: 21 CFR Class 1 and IEC 60825-1 Class 1 compliant

Key Features

- Chromatic dispersion measurement from 1300–1660 nm with ± 0.05 ps/(nm·km) reproducibility
- Fresnel reflection measurement at 1310/1450/1550/1625 nm
- Group delay fitting via cubic or quintic Sellmeier formulas
- Visible LD light source option (635 nm) for break and loss point detection
- Transmission loss, connection loss, return loss, and average loss quantification
- PC-based waveform analysis via RS-232C interface (115.2 kbps max.)

Typical Applications

- Network installation and commissioning
- Fiber cable maintenance and fault diagnosis
- Loss and reflection characterization
- Fiber microbending loss evaluation via L-band measurements

Compatibility & Integration

Interfaces: RS-232C serial, 8-bit parallel printer (Centronics), keyboard (IBM 101/106 key), VGA output

Floppy drive: Built-in 3.5-inch (1.44 MB/720 KB capacity)

Features & description

From manufacturer datasheet

Features

- Three-wavelength SM OTDR: 1310 / 1550 / 1625 nm
- High performance dynamic range 41.5/39.5/37 dB
- Short dead zone: 1.6 m Fresnel / 8 m backscatter
- Built-in light source function
- Built-in optical power meter (including high-power OPM option class in series)
- Visible light source
- Full-auto measurement in about 10 s; real-time sweep about 0.15 s
- Up to 50,000 sampling points; 5 cm resolution class
- Requires MU250000A color display unit
- Lithium-ion battery with remaining-charge indication

MW9076C Characteristics / Specifications

PARAMETER	VALUE
Model	MW9076C
Manufacturer	Anritsu
Instrument Type	Mini OTDR optical unit – SM three-wavelength high performance
Fiber	10/125 um single-mode (ITU-T G.652)
Wavelengths	1.31 / 1.55 / 1.625 um +/-25 nm
Dynamic Range	41.5 dB (1.31 um); 39.5 dB typical (1.55 um); 37 dB (1.625 um)
Dead Zone Fresnel / Backscatter	1.6 / 8 m
Display Unit Required	MU250000A (8.4 in TFT-LCD)
Light Source (shared OTDR port)	FP-LD; 1310/1550/1625 +/-25 nm; output about -3 +/-1.5 dBm CW into SM; modulation 270 Hz / 1 kHz / 2 kHz
Waveform Storage	Bellcore SOR (GR-196 / SR-4731) or Anritsu format
Laser Safety	21CFR Class 1, IEC 60825-1 Class 1
Power (series)	less than or equal to 35 W max while charging; about 4 W standard state with display
Battery Continuous Operation (series typical)	about 6 hours Related Models
MW9076B	1310/1550 nm, 45/43 dB typical (highest two-wavelength DR)
MW9076D	four wavelengths with chromatic dispersion measurement
MT9085C	modern high-performance ACCESS Master replacement class Standard Operating Conditions Mate only with MU250000A. Clean SM connectors. Use correct IOR. Dynamic range conditions typically 20 us pulse, long average at 25 C (SNR=1).
MW9076C is often sold as optical unit plus display	confirm both are present. "High Performance" in catalog titles refers to the three-wavelength MW9076C class versus general-purpose B1 units, not necessarily the absolute highest DR in the series (MW9076B leads at two wavelengths).
Three-wavelength SM OTDR	1310 / 1550 / 1625 nm
Short dead zone	1.6 m Fresnel / 8 m backscatter

MW9076C Specifications

PARAMETER	VALUE
Key Features	- Three-wavelength SM OTDR: 1310 / 1550 / 1625 nm
Technical Specifications	Model: MW9076C
Related Models	MW9076B: 1310/1550 nm, 45/43 dB typical (highest two-wavelength DR)

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.

Performance Optical Time Domain Reflectometer

Overview

The Anritsu MW9076C is a high-performance three-wavelength single-mode mini-OTDR in the MW9076 series for installation and maintenance of SM fiber, including the 1625 nm monitoring window. It provides dynamic range of 41.5 / 39.5 / 37 dB at 1.31 / 1.55 / 1.625 μ m with Fresnel/backscatter dead zones of 1.6 / 8 m. Built-in light source and optical power meter functions are supported. Like other MW9076 optical units, it requires a MU250000A 8.4-inch TFT-LCD display unit. Compared with MW9076B (45/43 dB at two wavelengths), the MW9076C adds 1625 nm at a slightly lower dual-window dynamic range. Anritsu lists the MT9085 series as the replacement platform.

Applications

Long-distance SM fiber installation and maintenance; three-window OTDR testing including 1625 nm for fiber monitoring and macrobend checks; optical loss measurement with built-in source/power meter; high-speed full-auto field OTDR with color display.

Key Features

- Three-wavelength SM OTDR: 1310 / 1550 / 1625 nm
- High performance dynamic range 41.5/39.5/37 dB
- Short dead zone: 1.6 m Fresnel / 8 m backscatter
- Built-in light source function
- Built-in optical power meter (including high-power OPM option class in series)
- Visible light source
- Full-auto measurement in about 10 s; real-time sweep about 0.15 s
- Up to 50,000 sampling points; 5 cm resolution class
- Requires MU250000A color display unit
- Lithium-ion battery with remaining-charge indication

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MW9076C
Manufacturer	Anritsu
Instrument Type	Mini OTDR optical unit – SM three-wavelength high performance
Fiber	10/125 μ m single-mode (ITU-T G.652)
Wavelengths	1.31 / 1.55 / 1.625 μ m +/-25 nm
Dynamic Range	41.5 dB (1.31 μ m); 39.5 dB typical (1.55 μ m); 37 dB (1.625 μ m)
Dead Zone Fresnel / Backscatter	1.6 / 8 m
Display Unit Required	MU250000A (8.4 in TFT-LCD)
Light Source (shared OTDR port)	FP-LD; 1310/1550/1625 +/-25 nm; output about -3 +/-1.5 dBm CW into SM; modulation 270 Hz / 1 kHz / 2 kHz
Waveform Storage	Bellcore SOR (GR-196 / SR-4731) or Anritsu format
Laser Safety	21CFR Class 1, IEC 60825-1 Class 1
Power (series)	less than or equal to 35 W max while charging; about 4 W standard state with display

PARAMETER	VALUE
Battery Continuous Operation (series typical)	about 6 hours

Related Models

Specifications

PARAMETER	VALUE
MW9076B	1310/1550 nm, 45/43 dB typical (highest two-wavelength DR)
MW9076B1	1310/1550 nm, 40.5/38.5 dB typical (cost-performance)
MW9076D1	four wavelengths with chromatic dispersion measurement
MT9085C	modern high-performance ACCESS Master replacement class

Standard Operating Conditions
Mate only with MU250000A. Clean SM connectors. Use correct IOR. Dynamic range conditions typically 20 us pulse, long average at 25 C (SNR=1).

Operational Notes
MW9076C is often sold as optical unit plus display-confirm both are present. "High Performance" in catalog titles refers to the three-wavelength MW9076C class versus general-purpose B1 units, not necessarily the absolute highest DR in the series (MW9076B leads at two wavelengths).

Laser Safety

Laser Safety: 21CFR Class 1, IEC 60825-1 Class 1 Power (series): less than or equal to 35 W max while charging; about 4 W standard state with display Battery Continuous Operation (series typical): about 6 hours Related Models MW9076B: 1310/1550 nm, 45/43 dB typical (highest two-wavelength DR) MW9076B1: 1310/1550 nm, 40.5/38.5 dB typical (cost-performance) MW9076D1: four wavelengths with chromatic dispersion

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.