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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU909014B "µOTDR Module, 2-Wavelength, 30 dB Class OTDR For MT9090A Network Master Series Mainframes

Anritsu MU909014B uOTDR Module 2 Wavelength 30 dB Class for MT9090A The Anritsu MU909014B is a two wavelength 30 dB class uOTDR module for the MT9090A Network Master. OEM brochure options 056/066 list 1310/1550 nm with 32.5 dB/31 dB dynamic range at 20 us and a shared OTDR port power meter. Access and FTTx SMF installation where a compact 30 dB class dual wavelength OTDR is required on the MT9090A platform. Two wavelength 30 dB class OTDR for MT9090A The Anritsu MU909014B is a two wavelength 30 dB class uOTDR module for the MT9090A Network Master. OEM brochure options 056/066 list 1310/1550 nm with 32.5 dB/31 dB dynamic range at 20 us and a shared OTDR port power meter. Access and FTTx SMF installation where a compact 30 dB class dual wavelength OTDR is required on the MT9090A platform. Two wavelength 30 dB class OTDR for MT9090A Order Options: MU909014B 056 and MU909014B 066



MODEL

**Anritsu
MU909014B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU909014B

LISTING

<https://aumictechlabs.com/products/mu909014b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MU909014B is a dual-wavelength μ OTDR module engineered for the MT9090A Network Master Series mainframe. It delivers 30 dB class dynamic range performance across 1310 nm and 1550 nm wavelengths, supporting optical fiber characterization from 0.5 km to 250 km. The module integrates OTDR, PON power metering at 1490 nm and 1550 nm, light source functionality with CW and modulated outputs (270 Hz, 1 kHz, 2 kHz), loss test set capability, and visible fault locator. Sampling resolution reaches 2 cm minimum with up to 250,001 data points. Fresnel dead zones are ≤ 0.8 m typical; backscatter dead zones ≤ 4.5 m. Distance accuracy is $\pm 1 \text{ m} \pm 3 \times \text{measurement distance} \times 10^{-5} \pm \text{marker resolution}$, with return loss measurement accuracy of ± 2 dB. Pulse widths range from 5 ns to 20 μ s. The module accepts UPC or APC connectors with changeable FC, SC, LC, ST, and DIN adapters. Internal storage holds approximately 1,000 traces (40 MB); external USB memory supports up to 30,000 traces (1 GB). Universal Telcordia SR-4731 data format ensures vendor compatibility. IOR setting range spans 1.3000 to 1.7000 in 0.0001 increments. Connectivity includes Bluetooth, Wi-Fi, and Ethernet. Designed for SMF (10 μ m / 125 μ m, ITU-T G.652) fiber testing in premise, access, metro, and core networks including high-split-ratio FTTx deployments.

Technical Specifications
Wavelengths: 1310 nm, 1550 nm
Dynamic Range: Up to 30 dB (this module class)
Distance Range: 0.5 km to 250 km
Sampling Resolution: 2 cm minimum
Data Sampling Points: Up to 250,001 (Fine mode)
Pulse Width: 5 ns to 20 μ s
Dead Zones: Fresnel ≤ 0.8 m, Backscatter ≤ 4.5 m (typical)
Distance Accuracy: $\pm 1 \text{ m} \pm 3 \times \text{measurement distance} \times 10^{-5} \pm \text{marker resolution}$ (excluding IOR uncertainty)
Return Loss Accuracy: ± 2 dB
Linearity: ± 0.05 dB/dB or ± 0.1 dB
IOR Range: 1.3000 to 1.7000 (0.0001 step increments)
Fiber Type: SMF (10 μ m / 125 μ m, ITU-T G.652)
Display Units: km, m, kft, ft, mi

Key Features
Integrated PON power meter measuring at 1490 nm and 1550 nm simultaneously
Light source with CW and modulated signal modes (270 Hz, 1 kHz, 2 kHz)
Loss test set for Device Under Test measurements
Visible fault locator with red light source
Fiber Visualizer mode for simplified operation without OTDR expertise
Changeable optical connectors (FC, SC, LC, ST, DIN) in UPC or APC configurations
Storage & Data Formats
Internal memory: 40 MB ($\approx 1,000$ traces)
External USB memory: 1 GB ($\approx 30,000$ traces)
Universal Telcordia SR-4731 format support
Connectivity
Bluetooth, Wi-Fi, Ethernet integration for remote operation and data transfer.

MU909014B Characteristics / Specifications

PARAMETER	VALUE
Model	MU909014B
OTDR Class	2 wavelength 30 dB class
Order Options	MU909014B 056 and MU909014B 066
Center Wavelength	1310/1550 nm plus or minus 20 nm typical plus or minus 25 nm guaranteed at plus 25 C 1 us
Dynamic Range PW 20 us	32.5 dB / 31 dB typical SNR equals 1 125 km 180 s average plus 25 C
Dynamic Range PW 500 ns	24.5 dB / 23 dB typical
Dead Zone Fresnel IOR 1.5000	less than or equal to 1 m
Dead Zone Backscatter IOR 1.5000	less than or equal to 5 m
Sampling Points	less than 125001 pts Course less than 6251 Medium less than 25001 Fine less than 125001
Sampling Resolution Minimum	5 cm
Power Meter Setting Wavelength	1310/1490/1550/1625/1650 nm
Power Meter Measurement Range CW	minus 50 to minus 5 dBm
Power Meter Accuracy	plus or minus 0.5 dB at 1310/1490/1550 nm CW minus 20 dBm plus 25 C after zero offset
Testing Modes	OTDR full automatic manual real time and Power Meter
Operating Temperature	minus 5 C to plus 40 C less than 80 percent RH no condensation
Storage Temperature	minus 20 C to plus 60 C less than 80 percent RH no condensation
Visible Fault Locator	not included on MU909014B without B1 suffix
Real Time Sweep	less than 1 s typical
Host Mainframe	MT9090A Network Master
Fiber Type	10 um/125 um SMF ITUTG.652
Optical Connector	FC and SC adapters changeable
Distance Range IOR 1.5000	0.5 1 2.5 5 10 25 50 75 125 250 km
Pulse Width	5 10 20 50 100 200 500 ns and 1 2 5 10 20 us
Linearity	plus or minus 0.05 dB/dB or plus or minus 0.1 dB whichever is greater

PARAMETER	VALUE
Return Loss Measurement Accuracy	plus or minus 2 dB
Distance Measurement Accuracy	plus or minus 1 m plus or minus 3 times measurement distance times 10 to the minus 5 plus marker resolution excluding IOR uncertainty
IOR Setting	1.3000 to 1.7000 in 0.0001 steps
Distance Units	kmmkft ft mi
Integrated Launch Fiber	10 m (30 ft)
Data Storage Internal	40 MB less than 1000 traces
Data Storage External USB	1 GB less than 30000 traces
Display With Mainframe	4.3 inch TFT color LCD 480 × 272 pixels transmissive
Interface	USB 1.1 TypeAmemory and TypeBUSB mass storage
Dimensions With Mainframe	190 W x 96 H x 48 D mm
Mass With Mainframe And Standard Battery	less than 700 g
Battery Operating Time Standard	8 hours typical Telcordia GR 196 CORE Issue 2
Recharging Time	less than 4 hours typical
Trace Format	Telcordia universal SOR issue 2 SR 4731
Ingress Protection	IEC 60529 IP51
Vibration	MIL T 28800E Class 3
Laser Safety OTDR	IEC 60825 1 2014 CLASS 1
Return loss	Measurement Accuracy: plus or minus 2 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to plus 60 C less than 80 percent RH no condensation
Operating temperature	minus 5 C to plus 40 C less than 80 percent RH no condensation
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Laser Safety OTDR	IEC 60825 1 2014 CLASS 1 Notes From Anritsu MU909014x/15x brochure. MU909014B is the 30 dB class dual wavelength row; B1 adds VLD.

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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Ingress Protection	IEC 60529 IP51
Vibration	MIL T 28800E Class 3
Laser Safety OTDR	IEC 60825 1 2014 CLASS 1

Notes

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Laser Safety

Laser Safety OTDR: IEC 60825 1 2014 CLASS 1 Notes From Anritsu MU909014x/15x brochure. MU909014B is the 30 dB class dual wavelength row; B1 adds VLD.

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
NAICS 423690 · 811210 · 541380
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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.