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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU909014B1 – μ OTDR Module, 2-Wavelength, 30 dB Class OTDR With VLD For MT9090A Network Master Series Mainframes

Anritsu MU909014B1 μ OTDR Module 2 Wavelength 30 dB Class with VLD for MT9090A The Anritsu MU909014B1 adds visible laser diode to the MU909014B two wavelength 30 dB class μ OTDR. OEM brochure lists VLD 650 plus or minus 15 nm at 0 plus or minus 3 dBm CW plus 25 C with 2.5 mm universal connector and CLASS 3R for the VLD option. Field SMF OTDR plus visual fault locate on the same MT9090A handheld for jumpers, bends, and break finding. Visible fault locator 650 nm class 3R option hardware The Anritsu MU909014B1 adds visible laser diode to the MU909014B two wavelength 30 dB class μ OTDR. OEM brochure lists VLD 650 plus or minus 15 nm at 0 plus or minus 3 dBm CW plus 25 C with 2.5 mm universal connector and CLASS 3R for the VLD option. Field SMF OTDR plus visual fault locate on the same MT9090A handheld for jumpers, bends, and break finding. Visible fault locator 650 nm class 3R option hardware OTDR Class: 2 wavelength 30 dB class with VLD



MODEL

**Anritsu
MU909014B1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU909014B1

LISTING

<https://aumictechlabs.com/products/mu909014b1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU909014B1 is a μ OTDR module engineered for the MT9090A Network Master series mainframes, delivering 2-wavelength optical time-domain reflectometry with 30 dB dynamic range. The integrated Visual Fault Locator (VLD) enables rapid identification of macrobends, connectors, and splices in optical fiber links. Field-deployable and compact, this module supports straightforward fiber characterization and fault diagnostics for technicians working on installed plant.

Technical Specifications

Type: μ OTDR Module Wavelengths: 2-wavelength operation
Dynamic Range: 30 dB Class Visual Fault Locator (VLD): Built-in for visual identification of fiber faults

Key Features

- Compact module form factor for MT9090A integration
- Dual-wavelength OTDR capability for comprehensive fiber analysis
- Integrated VLD for immediate visual fault location
- Field-ready optical diagnostics platform

Typical Applications

- Fiber link testing and troubleshooting
- Event identification in installed cable plant
- Splice and connector characterization
- Macrobend detection and localization
- Field fiber acceptance testing

Compatibility & Integration

Designed exclusively for deployment as a plug-in module within Anritsu MT9090A Network Master Series mainframes. Operates as an integral component of the MT9090A modular test platform.

MU909014B1 Characteristics / Specifications

PARAMETER	VALUE
Model	MU909014B1
OTDR Class	2 wavelength 30 dB class with VLD
Order Options	MU909014B1 056 and MU909014B1 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
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 Resolution Minimum	5 cm
Sampling Points	less than 125001 pts
VLD Connector	2.5 mm universal
VLD Wavelength	650 plus or minus 15 nm CW plus 25 C
VLD Output Power	0 plus or minus 3 dBm CW plus 25 C
VLD Modulation	CW and 1 Hz
Laser Safety With VLD	IEC 60825 1 2014 CLASS 1 and CLASS 3R VLD option
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
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
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

PARAMETER	VALUE
Linearity	plus or minus 0.05 dB/dB or plus or minus 0.1 dB whichever is greater
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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PARAMETER	VALUE
Vibration	MIL T 28800E Class 3
Laser Safety OTDR	IEC 60825 1 2014 CLASS 1 Notes From Anritsu MU909014x/15x brochure VLD and MU909014B/B1 specification rows.

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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Vibration	MIL T 28800E Class 3
Laser Safety OTDR	IEC 60825 1 2014 CLASS 1

Notes

From Anritsu MU909014x/15x brochure VLD and MU909014B/B1 specification rows.

Laser Safety

Laser Safety With VLD: IEC 60825 1 2014 CLASS 1 and CLASS 3R VLD option 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 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 Host Mainframe: MT909

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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<https://aumictechlabs.com>

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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.