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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU909014A1 – μ OTDR Module, Single Wavelength, 30 dB Class OTDR With VLD For MT9090A Network Master Series Mainframes

Anritsu MU909014A1 μ OTDR Module Single Wavelength 30 dB Class with VLD for MT9090A

The Anritsu MU909014A1 is a single wavelength 30 dB class μ OTDR with visible laser diode for MT9090A. OEM options 053/063 are 1625 nm at 32.5 dB and options 054/064 are 1650 nm at 32.5 dB, both at 20 us pulse width. In service filtered 1625 nm or 1650 nm maintenance OTDR plus visual fault locate on the Network Master handheld. Single wavelength 30 dB class OTDR with VLD

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MODEL

**Anritsu
MU909014A1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU909014A1

LISTING

<https://aumictechlabs.com/products/mu909014a1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MU909014A1 is a single-wavelength μ OTDR module designed for integration with MT9090A Network Master series mainframes. This 30 dB class OTDR incorporates a Visual Fault

Locator (VLD) for precise fiber optic link characterization, event detection, and fault localization in telecommunications and enterprise network environments. The module delivers rapid trace acquisition, automatic event analysis, and accurate loss measurement across configurable fiber lengths. Technical Specifications Optical Performance Dynamic Range: 30 dB class Event Dead Zone: Typically < 0.8 m Attenuation Dead Zone: Typically < 4.5 m Sampling Resolution: Up to 0.05 m Distance Accuracy: $\pm 1 \text{ m} \pm (\text{distance} \times 5 \times 10^{-5})$ Refractive Index: Settable 1.30000 to 1.70000 (0.00001 increment steps) Visual Fault Locator Output Power: 1 mW (Class II Laser) Wavelength: 650 nm Modes: Continuous wave (CW) and modulated output Application: Visual identification of macrobends, breaks, and faulty connectors Connectivity Optical Connector: APC or UPC type Data Transfer: Via MT9090A mainframe interfaces (USB, Ethernet) Power: Supplied by MT9090A mainframe Key Features Automatic detection and characterization of splices, connectors, and breaks Link loss and splice loss measurement capability Reflective event measurement Standard trace file format support (.sor) Multiple pulse widths for optimized resolution and measurement range Internal data storage via mainframe integration Typical Applications Short-range fiber optic link troubleshooting Fiber network verification and acceptance testing Event localization in installed optical infrastructure Connector and splice quality assessment Enterprise and telecommunications network diagnostics Compatibility & Integration The MU909014A1 module slots directly into Anritsu MT9090A Network Master series mainframes. Operation and data management occur through the mainframe's native communication interfaces and software environment.

MU909014A1 Characteristics / Specifications

PARAMETER	VALUE
Model	MU909014A1
OTDR Class	single wavelength 30 dB class with VLD
Order Options 1625 nm	MU909014A1 053 and MU909014A1 063
Order Options 1650 nm	MU909014A1 054 and MU909014A1 064
Center Wavelength 053/0	1625 plus or minus 15 nm
Center Wavelength 054/0	1650 plus or minus 15 nm
Dynamic Range PW 20 us	32.5 dB typical
Dynamic Range PW 500 ns	24.5 dB typical 24 dB on listed 1650 row footnote conditions
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
Power Meter	not applicable on MU909014A1
Laser Safety With VLD	IEC 60825 1 2014 CLASS 1 and CLASS 3R VLD option
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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Host Mainframe	MT9090A Network Master
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PARAMETER	VALUE
Vibration	MIL T 28800E Class 3
Laser Safety OTDR	IEC 60825 1 2014 CLASS 1 Notes From Anritsu MU909014A1/B/B1 specification block. Confirm installed 1625 nm versus 1650 nm option code on the faceplate.

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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Model	MU909014A1
OTDR Class	single wavelength 30 dB class with VLD
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Order Options 1650 nm	MU909014A1 054 and MU909014A1 064
Center Wavelength 053/063	1625 plus or minus 15 nm
Center Wavelength 054/064	1650 plus or minus 15 nm
Dynamic Range PW 20 us	32.5 dB typical
Dynamic Range PW 500 ns	24.5 dB typical 24 dB on listed 1650 row footnote conditions
Dead Zone Fresnel IOR 1.500000	less than or equal to 1 m
Dead Zone Backscatter IOR 1.500000	less than or equal to 5 m
Sampling Resolution Minimum	5 cm
Sampling Points	less than 125001 pts
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VLD Wavelength	650 plus or minus 15 nm CW plus 25 C
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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

From Anritsu MU909014A1/B/B1 specification block. Confirm installed 1625 nm versus 1650 nm option code on the faceplate.

Laser Safety

Laser Safety With VLD: IEC 60825 1 2014 CLASS 1 and CLASS 3R VLD option 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 1.500000: 0.5 1 2.5 5 1

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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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.