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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU100020A 1310/1550 nm SMF For MT1000A Series Network Master Pro

Anritsu MU100020A OTDR Module 1310/1550 nm SMF for MT1000A Network Master Pro The Anritsu MU100020A is a dual wavelength SMF OTDR module for the MT1000A Network Master Pro. OEM Network Master Pro OTDR brochure lists 1310/1550 nm plus or minus 25 nm on G.652 fiber with option dynamic ranges 39/37.5 dB, 42/41 dB, or 46/46 dB and Fresnel dead zone less than or equal to 80 cm typical. Field installation and maintenance of SMF access, metro, and mobile fronthaul fiber using the MT1000A handheld with Fiber Visualizer. The Anritsu MU100020A is a dual wavelength SMF OTDR module for the MT1000A Network Master Pro. OEM Network Master Pro OTDR brochure lists 1310/1550 nm plus or minus 25 nm on G.652 fiber with option dynamic ranges 39/37.5 dB, 42/41 dB, or 46/46 dB and Fresnel dead zone less than or equal to 80 cm typical. Field installation and maintenance of SMF access, metro, and mobile fronthaul fiber using the MT1000A handheld with Fiber Visualizer. Fresnel dead zone less than or equal to 80 cm typical. Coinstallable with 10G/100G transport modules



MODEL

**Anritsu
MU100020A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU100020A

LISTING

<https://aumictechlabs.com/products/mu100020a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MU100020A is an OTDR module for the MT1000A Series Network Master Pro, delivering single-mode fiber characterization at 1310 nm and 1550 nm wavelengths. This module performs fault location, length measurement, and loss analysis on ITU-T G.652 SMF (10/125 μ m), with dynamic range of 39 dB at 1310 nm and 37.5 dB at 1550 nm. Event dead zone reaches ≤ 80 cm typical, while backscatter dead zone is ≤ 3.8 m (1310 nm) and ≤ 4.3 m (1550 nm) at IOR 1.500000. Distance measurement capability extends to 100 km with up to 250,001 sampling points. Technical Specifications Wavelengths: 1310 nm / 1550 nm Fiber Type: Single-Mode Fiber (SMF) – 10/125 μ m ITU-T G.652 Dynamic Range: 39 dB (1310 nm) / 37.5 dB (1550 nm); 46 dB typical for core/metro/access networks Event Dead Zone: ≤ 80 cm (typical) Backscatter Dead Zone: ≤ 3.8 m (1310 nm) / ≤ 4.3 m (1550 nm) typical at IOR 1.500000 Index of Refraction Range: 1.300000 to 1.700000 (0.000001 step resolution) Maximum Distance Range: 100 km Sampling Points: Up to 250,001 Key Features Fiber Visualizer function with graphical summary and traditional OTDR trace toggle Multi-pulse measurement for high-accuracy event detection Manual waveform analysis for fiber distance, loss, and return loss characterization Connector inspection with IEC 61300-3-35 Pass/Fail criteria support and Video Inspection Probe compatibility Macro-bend detection and analysis Bi-directional and multi-waveform measurement/display capability Optical communications signal and connection check functionality Built-in light source and optical power meter (standard); optional visible light source PON network evaluation with splitter support up to 128 branches User-settable Pass/Fail thresholds per event with intuitive GUI PDF report generation Shared OTDR data format support Typical Applications Core and metro network fiber characterization up to 100 km PON system evaluation and splitter analysis FTTA (Fiber to the Antenna) measurement Optical loss test set (OLTS) operation Construction mode deployment verification Compatibility & Integration Designed exclusively for the MT1000A Series Network Master Pro. Standard accessories include universal connectors (2.5 mm and 1.25 mm for OPM) and quick reference guide.

MU100020A Characteristics / Specifications

PARAMETER	VALUE
Model	MU100020A
Host Mainframe	MT1000A Network Master Pro
Wavelength	1310 nm / 1550 nm plus or minus 25 nm
Fiber Type	SMF 10 um/125 um ITUTG.652
Pulse Width	3 10 20 50 100 200 500 1000 2000 4000 10000 20000 ns
Dead Zone Fresnel IOR 1.5000	less than or equal to 80 cm typical
Dead Zone Backscatter IOR 1.5000	less than or equal to 3.8 m / 4.3 m
IOR Setting	1.300000 to 1.700000 in 0.000001 steps
Sampling Points	up to 250001
Sampling Resolution	0.02 0.05 0.1 0.2 0.5 1 2 5 10 20 40 m
Loss Measurement Accuracy Linearity	plus or minus 0.05 dB/dB or plus or minus 0.1 dB whichever is greater
Reflectance Accuracy Single Mode	plus or minus 2 dB
Distance 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
Distance Range SMF IOR 1.500	0.5 1 2.5 5 10 25 50 100 200 300 km
Realtime Sweep Time	less than or equal to 0.2 s Test Mode Manual Distance Range 50 km Resolution Coarse
Distance Units	kmmkft ft mi
Light Source Output Power Class	minus 5 plus or minus 1.5 dBm CW 25 C on OTDR series LS rows
Light Source Modes	CW 270 Hz 1 kHz 2 kHz
Series Family	MU100020A/21A/22A/23A OTDR modules

MU100020A Specifications

PARAMETER	VALUE
Applications	Field installation and maintenance of SMF access, metro, and mobile fronthaul fiber using the MT1000A handheld with Fiber Visualizer.
Key Features	1310/1550 nm SMF OTDR for MT1000A
Option dynamic range to 46 dB / 46 dB	Fresnel dead zone less than or equal to 80 cm typical
Up to 250001 sampling points	Coinstallable with 10G/100G transport modules
Technical Specifications	Model: MU100020A
Notes	From Anritsu Network Master Pro MT1000A OTDR Module brochure and product introduction tables for MU100020A options 020/021/022.

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	MU100020A
Host Mainframe	MT1000A Network Master Pro
Wavelength	1310 nm / 1550 nm plus or minus 25 nm
Fiber Type	SMF 10 um/125 um ITUTG.652
Pulse Width	3 10 20 50 100 200 500 1000 2000 4000 10000 20000 ns
Option 020 Dynamic Range: 39 dB / 37.5 dB	
Option 021 Dynamic Range: 42 dB / 41 dB	
Option 022 Dynamic Range: 46 dB / 46 dB and 25 dB / 25 dB at 100 ns pulse width	
Specifications	
PARAMETER	VALUE
Dead Zone Fresnel IOR 1.500000	less than or equal to 80 cm typical
Dead Zone Backscatter IOR 1.500000	less than or equal to 3.8 m / 4.3 m
IOR Setting	1.300000 to 1.700000 in 0.000001 steps
Sampling Points	up to 250001
Sampling Resolution	0.02 0.05 0.1 0.2 0.5 1 2 5 10 20 40 m
Loss Measurement Accuracy Linearity	plus or minus 0.05 dB/dB or plus or minus 0.1 dB whichever is greater
Reflectance Accuracy Single Mode	plus or minus 2 dB
Distance 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
Distance Range SMF IOR 1.50000	0.5 1 2.5 5 10 25 50 100 200 300 km
Realtime Sweep Time	less than or equal to 0.2 s Test Mode Manual Distance Range 50 km Resolution Coarse
Distance Units	kmmkft ft mi
Light Source Output Power Class	minus 5 plus or minus 1.5 dBm CW 25 C on OTDR series LS rows
Light Source Modes	CW 270 Hz 1 kHz 2 kHz
Series Family	MU100020A/21A/22A/23A OTDR modules

Notes

From Anritsu Network Master Pro MT1000A OTDR Module brochure and product introduction tables for MU100020A options 020/021/022.

Ordering Information

OPTION	DESCRIPTION
Option 020	Dynamic Range: 39 dB / 37.5 dB
Option 021	Dynamic Range: 42 dB / 41 dB
Option 022	Dynamic Range: 46 dB / 46 dB and 25 dB / 25 dB at 100 ns pulse width

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.