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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU100021A – OTDR Module, 1310/1550/850/1300 nm SMF/MMF For MT1000A Series Network Master Pro

Anritsu MU100021A OTDR Module 1310/1550/850/1300 nm SMF/MMF for MT1000A The Anritsu MU100021A adds 850/1300 nm multimode OTDR to the 1310/1550 nm SMF OTDR for MT1000A. OEM tables list SMF 42/41 dB and MMF 29/28 dB dynamic range on option 021 with Fresnel dead zone less than or equal to 80 cm typical. MobilelandMand enterprise fiber plants that mix SMF backbone and MMF LAN on one Network Master Pro. SMF 42/41 dB and MMF 29/28 dB dynamic range on option 021 The Anritsu MU100021A adds 850/1300 nm multimode OTDR to the 1310/1550 nm SMF OTDR for MT1000A. OEM tables list SMF 42/41 dB and MMF 29/28 dB dynamic range on option 021 with Fresnel dead zone less than or equal to 80 cm typical. MobilelandMand enterprise fiber plants that mix SMF backbone and MMF LAN on one Network Master Pro. SMF 42/41 dB and MMF 29/28 dB dynamic range on option 021 Same 80 cm class Fresnel dead zone as MU100020A



MODEL

**Anritsu
MU100021A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU100021A

LISTING

<https://aumictechlabs.com/products/mu100021a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU100021A is an OTDR module for the MT1000A Network Master Pro series, delivering optical fiber diagnostics across single-mode and multimode platforms. This module operates at 1310 nm, 1550 nm, 850 nm, and 1300 nm, enabling fault location, loss measurement, and reflectance analysis on installed fiber plant. It supports SMF (10/125 μ m ITU-T G.652) and MMF (62.5/125 μ m GI fiber) with dynamic range to 42 dB on SMF at 1310 nm and 41 dB at 1550 nm. Technical Specifications Wavelengths: 1310 nm ($\pm 25/\pm 30$ nm), 1550 nm ($\pm 25/\pm 30$ nm) for SMF; 850 nm (± 30 nm), 1300 nm (± 30 nm) for MMF Light Source Output: -5 ± 1.5 dBm (CW, 25°C) Modulation Modes: CW, 270 Hz, 1 kHz, 2 kHz Pulse Width (SMF): 3 to 20,000 ns (12 selectable widths) Pulse Width (MMF @ 1300 nm): 3 to 4,000 ns; @ 850 nm: 3 to 500 ns Distance Range (SMF): 0.5 to 300 km; (MMF): 0.5 to 100 km Sampling Resolution: 0.02 to 40 m (11 settings) Maximum Sampling Points: 250,001 Loss Measurement Accuracy: ± 0.05 dB/dB or ± 0.1 dB (whichever is greater) Reflectance Accuracy: SMF ± 2 dB, MMF ± 4 dB Distance Accuracy: ± 1 m $\pm 3 \times$ measurement distance $\times 10^{-5} \pm$ marker resolution (excluding IOR uncertainty) Event Dead Zone: 0.8 m; Backscatter Dead Zone: 29 dB (IOR = 1.500000) Real-time Sweep Time: 10.2 sec (Manual, 50 km range, coarse resolution) IOR Range: 1.300000 to 1.700000 (0.000001 increments) Distance Units: km, m, kft, ft, mi Key Features Bi-directional and multi-waveform measurement with simultaneous display Fiber Visualizer for Pass/Fail evaluation Multi-pulse measurement for high-accuracy event detection Macro-bend detection and analysis Optical communications signal/connection check function Support for long-distance fiber evaluation to 100 km and PON systems up to 128 branches Dirty/scratched connector detection via excessive reflectance identification Measurement Modes OTDR Measurement FTTA (Fiber to the Antenna) Measurement OLTS (Optical Loss Test Set) Measurement Compatibility & Integration Integrates with MT1000A Network Master Pro mainframe. Compatible with standard single-mode (ITU-T G.652) and graded-index multimode fiber plant.

MU100021A Characteristics / Specifications

PARAMETER	VALUE
Model	MU100021A
Host Mainframe	MT1000A Network Master Pro
SMF Wavelength	1310 nm / 1550 nm plus or minus 25 nm
MMF Wavelength	850 nm / 1300 nm plus or minus 30 nm
SMF Fiber Type	10 um/125 um ITUTG.652
MMF Fiber Type	GI 62.5 um/125 um
SMF Pulse Width	3 10 20 50 100 200 500 1000 2000 4000 10000 20000 ns
MMF Pulse Width 850 nm	3 10 20 50 100 200 500 ns
MMF Pulse Width 1300 nm	3 10 20 50 100 200 500 1000 2000 4000 ns
Dead Zone Fresnel IOR 1.5000	less than or equal to 80 cm typical
Dead Zone Backscatter SMF	less than or equal to 3.8 m / 4.3 m
Dead Zone Backscatter MMF	less than or equal to 4.0 m / 5.0 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 SMF	plus or minus 2 dB
Reflectance Accuracy MMF	plus or minus 4 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	0.5 1 2.5 5 10 25 50 100 200 300 km
Distance Range MMF	0.5 1 2.5 5 10 25 50 100 km
Realtime Sweep Time	less than or equal to 0.2 s Manual 50 km Coarse
Fiber type	10 um/125 um ITUTG.652

MU100021A Specifications

PARAMETER	VALUE
Quad wavelength SMF plus MMF OTDR	SMF 42/41 dB and MMF 29/28 dB dynamic range on option 021
GI 62.5 um/125 um MMF support	Same 80 cm class Fresnel dead zone as MU100020A
Technical Specifications	Model: MU100021A

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	MU100021A
Host Mainframe	MT1000A Network Master Pro
SMF Wavelength	1310 nm / 1550 nm plus or minus 25 nm
MMF Wavelength	850 nm / 1300 nm plus or minus 30 nm
SMF Fiber Type	10 um/125 um ITUTG.652
MMF Fiber Type	GI 62.5 um/125 um
Option 021 SMF Dynamic Range: 42 dB / 41 dB	
Option 021 MMF Dynamic Range: 29 dB / 28 dB	
Specifications	
PARAMETER	VALUE
SMF Pulse Width	3 10 20 50 100 200 500 1000 2000 4000 10000 20000 ns
MMF Pulse Width 850 nm	3 10 20 50 100 200 500 ns
MMF Pulse Width 1300 nm	3 10 20 50 100 200 500 1000 2000 4000 ns
Dead Zone Fresnel IOR 1.500000	less than or equal to 80 cm typical
Dead Zone Backscatter SMF	less than or equal to 3.8 m / 4.3 m
Dead Zone Backscatter MMF	less than or equal to 4.0 m / 5.0 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 SMF	plus or minus 2 dB
Reflectance Accuracy MMF	plus or minus 4 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	0.5 1 2.5 5 10 25 50 100 200 300 km
Distance Range MMF	0.5 1 2.5 5 10 25 50 100 km

PARAMETER

VALUE

Realtime Sweep Time

less than or equal to 0.2 s Manual 50 km Coarse

Notes

From Anritsu MT1000A OTDR brochure MU100021A option 021 table. Wavelength footnote on some reseller pages lists plus or minus 30 nm on SMF; OEM brochure states plus or minus 25 nm SMF and plus or minus 30 nm MMF.

Ordering Information

OPTION	DESCRIPTION
Option 021	with Fresnel dead zone less than or equal to 80 cm typical.

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 ·
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.