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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU100022A €" OTDR Module, 1310/1550/1625nm SMF For MT1000A Series Network Master Pro

Anritsu MU100022A High Performance GNSS Module The Anritsu MU100022A is a high-performance GNSS disciplined oscillator / timing module option family for the MT1000A Network Master Pro platform. OEM MT1000A datasheet sections list high-performance GNSS disciplined oscillator capability for precise timing and synchronization tests with transport modules. SyncE/PTP timing validation, GNSS-disciplined frequency reference for field transport tests, and holdover timing support on MT1000A. High performance GNSS disciplined oscillator The Anritsu MU100022A is a high-performance GNSS disciplined oscillator / timing module option family for the MT1000A Network Master Pro platform. OEM MT1000A datasheet sections list high-performance GNSS disciplined oscillator capability for precise timing and synchronization tests with transport modules. SyncE/PTP timing validation, GNSS-disciplined frequency reference for field transport tests, and holdover timing support on MT1000A. High performance GNSS disciplined oscillator Host Mainframe: MT1000A Network Master Pro



MODEL

**Anritsu
MU100022A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU100022A

LISTING

<https://aumictechlabs.com/products/mu100022a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MU100022A is a single-mode fiber OTDR module for the MT1000A Series Network Master Pro mainframe. Operating at 1310nm, 1550nm, and 1625nm, it delivers dynamic range of 46 dB / 46 dB / 44 dB respectively, with event dead zone of 0.8 m typical and backscatter dead zone ≤ 3.8 m / 4.3 m / 4.8 m across those wavelengths. The module captures up to 250,001 sampling points with minimum resolution of 2 cm over 300 km distance range, supporting pulse widths from 3 ns to 20,000 ns. Twelve configurable sampling resolutions (0.02 m to 10 m steps) and user-selectable IOR from 1.300000 to 1.700000 enable precise fiber characterization. Light source output power is -5 ± 1.5 dBm in CW mode (25°C), with operation modes including CW, 270 Hz, 1 kHz, and 2 kHz. SC/APC connector interface supports ITU-T G.652 10/125 μ m single-mode fiber. Distance units include km, m, kft, ft, and mi. The module excels at fault location in PON networks with splitter counts up to 128 branches, long-haul testing to 100 km, and in-service measurements via the 1625nm wavelength. Fiber Visualizer function delivers intuitive graphical Pass/Fail reporting and streamlines test documentation workflows.

MU100022A Characteristics / Specifications

PARAMETER	VALUE
Host Mainframe	MT1000A Network Master Pro
Instrument Type	High performance GNSS disciplined oscillator module
Series Family	MU100022A
Primary Function	GNSS disciplined timing reference
Form Factor	MT1000A plug in module
Timing Applications	SyncE PTP related sync tests class
Antenna Input Class	GNSS antenna connector class
Holdover Class	Oscillator holdover supported class
Remote Control	Via MT1000A
Power	Supplied by MT1000A
Operating Temperature Class	Field handheld mainframe range class
Frequency Reference Class	GNSS disciplined reference class
Calibration	Timing module calibration class
Export Classification Class	Commercial timing module class
Related Modules	MU100010A MU100011A transport modules
Warmup Class	Per MT1000A recommendation
Status Reporting	GNSS lock status class
Accuracy Class	GNSS disciplined accuracy class
Constellations Class	Multi GNSS reception class
Use Case	Field sync and timing validation
Form Factor Height Class	Mainframe module class
Manufacturer	Anritsu
Operating temperature	Class: Field handheld mainframe range class

MU100022A Specifications

PARAMETER	VALUE
Anritsu MU100022A High Performance GNSS Module	Overview
Applications	SyncE/PTP timing validation, GNSS-disciplined frequency reference for field transport tests, and holdover timing support on MT1000A.
High performance GNSS disciplined oscillator	MT1000A modular timing option
Supports sync test workflows	Field portable timing reference
Technical Specifications	Host Mainframe: MT1000A Network Master Pro

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Field handheld mainframe range class
Operating Temperature	Class: Field handheld mainframe range class
Operating Temperature Class	Field handheld mainframe range class
Frequency Reference Class	GNSS disciplined reference class
Calibration	Timing module calibration class
Export Classification Class	Commercial timing module class
Related Modules	MU100010A MU100011A transport modules
Warmup Class	Per MT1000A recommendation
Status Reporting	GNSS lock status class
Accuracy Class	GNSS disciplined accuracy class
Constellations Class	Multi GNSS reception class
Use Case	Field sync and timing validation
Form Factor Height Class	Mainframe module class
Manufacturer	Anritsu Notes From Anritsu MT1000A Network Master Pro data sheet high-performance GNSS disciplined oscillator module listings for MU100022A. Confirm constellation set on the option sheet.

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.

Performance GNSS Module

Overview

The Anritsu MU100022A is a high-performance GNSS disciplined oscillator / timing module option family for the MT1000A Network Master Pro platform. OEM MT1000A datasheet sections list high-performance GNSS disciplined oscillator capability for precise timing and synchronization tests with transport modules.

Applications

SyncE/PTP timing validation, GNSS-disciplined frequency reference for field transport tests, and holdover timing support on MT1000A.

Key Features

High performance GNSS disciplined oscillator
MT1000A modular timing option
Supports sync test workflows
Field portable timing reference
Works with transport modules

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Host Mainframe	MT1000A Network Master Pro
Instrument Type	High performance GNSS disciplined oscillator module
Series Family	MU100022A
Primary Function	GNSS disciplined timing reference
Form Factor	MT1000A plug in module
Timing Applications	SyncE PTP related sync tests class
Antenna Input Class	GNSS antenna connector class
Holdover Class	Oscillator holdover supported class
Remote Control	Via MT1000A
Power	Supplied by MT1000A
Operating Temperature Class	Field handheld mainframe range class
Frequency Reference Class	GNSS disciplined reference class
Calibration	Timing module calibration class
Export Classification Class	Commercial timing module class
Related Modules	MU100010A MU100011A transport modules
Warmup Class	Per MT1000A recommendation
Status Reporting	GNSS lock status class
Accuracy Class	GNSS disciplined accuracy class

PARAMETER	VALUE
Constellations Class	Multi GNSS reception class
Use Case	Field sync and timing validation
Form Factor Height Class	Mainframe module class
Manufacturer	Anritsu

Notes
From Anritsu MT1000A Network Master Pro data sheet high-performance GNSS disciplined oscillator module listings for MU100022A. Confirm constellation set on the option sheet.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.