

ANRITSU

MT9083A

The Anritsu MT9083A (ACCESS Master) is a compact, lightweight optical time domain reflectometer (OTDR) designed for the installation and maintenance of FTTx, PON, and access networks. It features a 6.5-inch color display and offers a dynamic range of up to 39 dB (1310 nm) and 37.5 dB (1550 nm) for single-mode fiber testing. The MT9083A supports trace analysis, fault location, and comprehensive network certification in a rugged, field-portable form factor.

SPECIFICATIONS

General

Interfaces	USB (Type A, Type B)
Display	6.5-inch TFT color LCD (640 × 480)
Display Resolution	640 × 480 pixels

Physical

Power Supply	AC Adapter (100 to 240 V AC), Li-ion Battery
Operating Temperature	-10 to +50 °C
Dimensions (W×H×D)	284 × 200 × 77 mm
Weight	2.2 kg

OTDR Measurement Specifications

Fiber Type	Single-mode (SM) / Multimode (MM) (configuration dependent)
Dynamic Range	Up to 39 dB @ 1310 nm / 37.5 dB @ 1550 nm (SM standard)
Index of Refraction (IOR) Setting Range	1.300000 to 1.700000
Number of Sampling Points	Up to 50,001

Data Storage and Processing

Maximum Traces Stored (Internal)	Up to 1,000 traces
External Memory Support	USB Flash Memory
Trace File Formats	Telcordia SR-4731 (GR-196-CORE)

Power Specifications

Battery Type	Li-ion
Battery Operating Time	Approx. 8 hours

Environmental and Compliance

Storage Temperature Range	-20 to +60 °C
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Optical Interfaces

Optical Connector	Interchangeable SC, FC, ST, DIN (Configuration dependent)
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Visual Fault Locator (Option)

VFL Wavelength (Option)	650 nm ±15 nm
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Compliance & Safety

OTDR Laser Safety	Class 1M (IEC 60825-1)
VFL Laser Safety (Option)	Class 3R (IEC 60825-1)
EMC	EN 61326-1
Safety / LVD	EN 61010-1

Optical Specifications

Wavelength (SM)	1310 / 1550 / 1625 / 1650 nm (configuration dependent)
Wavelength (MM)	850 / 1300 nm (configuration dependent)
Wavelength Tolerance	±25 nm (SM) / ±30 nm (MM)

Light Source Option

Light Source Wavelength (Option)	Matches installed OTDR wavelengths
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Environmental

Dust and Water Protection	IP51 equivalent
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Software & Capabilities

Video Inspection Probe Support	Yes (via USB interface)
Macrobend Analysis	Standard feature

TECHNOLOGY

OTDR

APPLICATIONS

Fiber Optic Installation, FTTx/PON Testing, Access Network Maintenance

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.