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Data Sheet

August 1, 2026

ANRITSU

Anritsu MT9083B ACCESS Master – Optical Time Domain Reflectometers

Anritsu MT9083B ACCESS Master Optical Time Domain Reflectometer The Anritsu MT9083B is the high-performance (Performance Series) model in the MT9083 ACCESS Master handheld OTDR family. It provides expanded dynamic range up to about 42 dB, dual user-selectable HR (high resolution) / ER (enhanced range) circuit modes, and full support for PON-based FTTx testing with optical splits up to 1×64. Multiple wavelength options cover common SM windows including 1310/1550, 1490, 1625, and 1650 nm variants. The MT9083C sits above it for ultra-high performance (about 45 dB, 1×128 PON). The later MT9085 series is the current ACCESS Master platform. The Anritsu MT9083B is the high-performance (Performance Series) model in the MT9083 ACCESS Master handheld OTDR family. It provides expanded dynamic range up to about 42 dB, dual user-selectable HR (high resolution) / ER (enhanced range) circuit modes, and full support for PON-based FTTx testing with optical splits up to 1×64. Multiple wavelength options cover common SM windows including 1310/1550, 1490, 1625, and 1650 nm variants. The MT9083C sits above it for ultra-high performance (about 45 dB, 1×128 PON). The later MT9085 series is the current ACCESS Master platform. Metro and long-haul fiber I&M; PON/FTTx testing through up to 1×64 splits; access network fault location with macrobend detection; one-button pass/fail OTDR with automated file



MODEL Anritsu MT9083B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU MT9083B	LISTING https://aumictechlabs.com/products/mt9083b-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MT9083B ACCESS Master is an Optical Time Domain Reflectometer (OTDR) engineered for testing and maintaining optical fiber networks across FTTx, CATV, LAN, access, and metro deployments. This field-portable instrument delivers high-resolution fault location and fiber characterization by identifying breaks, bends, connector issues, and other anomalies within fiber optic links with exceptional precision.

Technical Specifications

OTDR Performance

- Dynamic range: up to 42 dB, enabling measurement of fiber spans exceeding 200 km
- Event dead zone: less than 1 meter (typically 80 cm)
- Sampling resolution: 5 centimeters
- Pulse widths optimized at 100 ns for balanced measurement distance and resolution

Dual-mode operation: HIGH RESOLUTION (HR) for superior deadzone performance and ENHANCED RANGE (ER) for extended distances

Wavelength Support

- Multimode Fiber (MMF): 850 nm and 1300 nm
- Single Mode Fiber (SMF): 780 nm, 1310 nm, 1383 nm, 1490 nm, 1550 nm, 1625 nm, and 1650 nm

Supports combining up to four wavelengths in a single optical output PON Testing

Optimized for splitter-based Passive Optical Networks with support for optical splits up to 1×64

High dynamic range and rapid data acquisition for single or cascaded splitter resolution

Integrated Light Source Stabilized continuous wave output with 270 Hz, 1 kHz, and 2 kHz modulation options for fiber identification

Optional visible light source (factory-installed) with up to 5 km operational range for visual fault location

Fiber Event Analysis Auto or manual operation modes

Results displayed in table format

Integrated loss test set measurements for multiple wavelengths with archival capability

Key Features

- IP Network Testing (Optional)** Verifies throughput, frame loss, and point-to-point connectivity for Gigabit Ethernet links at full line rate
- Supports PPPoE and DHCP services for continuity testing
- QoS evaluation for FTTx networks including download throughput verification

Typical Applications

Central office troubleshooting, FTTx deployments, intra-building fiber assessment, and metro network maintenance.

Compatibility & Integration

Optional modules include visible light source and optical power meter. Loss test set integrates with existing measurement workflows for comprehensive fiber characterization.

Features & description

From manufacturer datasheet

Features

- ACCESS Master handheld OTDR – Performance Series (up to 42 dB) • Exclusive dual-circuit HR / ER mode selection • PON testing up to 1×64 splits • One-button fault location, pass/fail classification, automated file save/name • Macrobend detection • Fast real-time sweeping with high signal level • Multiple SM wavelength option configurations • Optional connector inspection / power meter features per configuration

MT9083B Characteristics / Specifications

PARAMETER	VALUE
Model	MT9083B
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – ACCESS Master Performance Series
Dynamic Range Class	up to 42 dB
PON Support	up to 1×64 splits
Modes	HR (high resolution) and ER (enhanced range) Example Wavelength Options (brochure tables)
Fresnel Dead Zone	less than or equal to 1 m (about 80 cm typical)
Pulse Widths	3 ns to 20000 ns class
Fiber	SMF 10/125 um ITU-T G.652 Family Context
MT9083A	General purpose, up to about 38 dB
MT9083B	High performance, up to about 42 dB, 1×64 PON
MT9083C	Ultra-high performance, up to about 45 dB, 1×128 PON
MT9085B / MT9085C	current-generation ACCESS Master successors Standard Operating Conditions Clean connectors. Select HR vs ER mode for the span. Confirm installed wavelength option before quoting dynamic range. Ready-to-test in less than about 15 seconds per series literature; all-day battery operation typical for the platform.

MT9083B Specifications

PARAMETER	VALUE
Key Features	- ACCESS Master handheld OTDR — Performance Series (up to 42 dB)
Technical Specifications	Model: MT9083B
Example Wavelength Options (brochure tables)	MT9083B-053: 1310/1550 nm; about 42/41 dB; backscatter DZ less than or equal to 5/5.5 m
Family Context	MT9083A: General purpose, up to about 38 dB

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 (Performance Series) model in the MT9083 ACCESS Master handheld OTDR family. It provides expanded dynamic range up to about 42 dB, dual user-selectable HR (high resolution) / ER (enhanced range) circuit modes, and full support for PON-based FTTx testing with optical splits up to 1x64. Multiple wavelength options cover common SM windows including 1310/1550, 1490, 1625, and 1650 nm variants. The MT9083C sits above it for ultra-high performance (about 45 dB, 1x128 PON). The later MT9085 series is the current ACCESS Master platform.

Applications

Metro and long-haul fiber I&M; PON/FTTx testing through up to 1x64 splits; access network fault location with macrobend detection; one-button pass/fail OTDR with automated file naming.

Key Features

- ACCESS Master handheld OTDR – Performance Series (up to 42 dB)
- Exclusive dual-circuit HR / ER mode selection
- PON testing up to 1x64 splits
- One-button fault location, pass/fail classification, automated file save/name
- Macrobend detection
- Fast real-time sweeping with high signal level
- Multiple SM wavelength option configurations
- Optional connector inspection / power meter features per configuration

Technical Specifications

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PARAMETER	VALUE
Model	MT9083B
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – ACCESS Master Performance Series
Dynamic Range Class	up to 42 dB
PON Support	up to 1x64 splits
Modes	HR (high resolution) and ER (enhanced range)

Example Wavelength Options (brochure tables)

MT9083B-053: 1310/1550 nm; about 42/41 dB; backscatter DZ less than or equal to 5/5.5 m

MT9083B-055: 1310/1550/1650 nm; about 42/41/35 dB

MT9083B-056: 1310/1490/1550 nm; about 40/39/39 dB

MT9083B-057: 1310/1550/1625 nm; about 40/39/38 dB

MT9083B-058 / 059: four-wavelength variants about 38/37/37/36 dB class

Specifications

PARAMETER	VALUE
Fresnel Dead Zone	less than or equal to 1 m (about 80 cm typical)
Pulse Widths	3 ns to 20000 ns class
Fiber	SMF 10/125 um ITU-T G.652

Family Context

Specifications

PARAMETER	VALUE
MT9083A	General purpose, up to about 38 dB
MT9083B	High performance, up to about 42 dB, 1x64 PON
MT9083C	Ultra-high performance, up to about 45 dB, 1x128 PON
MT9085B / MT9085C	current-generation ACCESS Master successors

Standard Operating Conditions

Clean connectors. Select HR vs ER mode for the span. Confirm installed wavelength option before quoting dynamic range. Ready-to-test in less than about 15 seconds per series literature; all-day battery operation typical for the platform.

Operational Notes

Wavelength and exact DR depend on the installed option code (053-059 family). Do not confuse MT9083B with MT9083C (higher DR / 1x128) or MT9085B (newer series).

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.