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Data Sheet

August 1, 2026

ANRITSU

Anritsu MT9085B OTDR – ACCESS Master

Anritsu MT9085B OTDR ACCESS Master Enhanced Dynamic Range The Anritsu MT9085B is the Enhanced Dynamic Range model in the ACCESS Master MT9085 series of handheld optical time-domain reflectometers. It sits between the MT9085A (Standard, about 39 dB class) and MT9085C (High Performance, about 46 dB class). Typical SM Option 053 delivers 42/41 dB at 1310/1550 nm. The platform combines OTDR, optional light source / optical power meter / VFL, and video inspection probe support with an 8-inch color touchscreen, rotary knob, and hard keys. Fresnel (event) dead zone is typically 0.8 m (less than or equal to 1 m). The Anritsu MT9085B is the Enhanced Dynamic Range model in the ACCESS Master MT9085 series of handheld optical time-domain reflectometers. It sits between the MT9085A (Standard, about 39 dB class) and MT9085C (High Performance, about 46 dB class). Typical SM Option 053 delivers 42/41 dB at 1310/1550 nm. The platform combines OTDR, optional light source / optical power meter / VFL, and video inspection probe support with an 8-inch color touchscreen, rotary knob, and hard keys. Fresnel (event) dead zone is typically 0.8 m (less than or equal to 1 m). Installation and maintenance of metro, long-haul, and PON/FTTx fiber; live-circuit maintenance with filtered 1650 nm options; hybrid SMF/MMF I&M with Option 063; field fault location with Fiber Visualizer.



MODEL

Anritsu MT9085B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MT9085B

LISTING

<https://aumictechlabs.com/products/mt9085b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MT9085B ACCESS Master is a handheld optical time domain reflectometer (OTDR) integrating testing, installation, certification, and troubleshooting functions for fiber optic networks. The unit combines OTDR, optical loss test set (OLTS), optical power meter, visual fault locator (VFL), and light source capabilities into a single instrument, eliminating the need for separate tools across FTTx, metro, core, mobile fronthaul/backhaul, and data center deployments.

Technical Specifications

- Fiber Type Support: Single-mode (SMF) and multimode (MMF)
- Dynamic Range: Up to 46 dB
- Event Dead Zone: ≤ 0.8 m
- Measurement Resolution: 10 m for deep-sea optical cables
- Wavelength Support: Up to four wavelengths per unit
- PON Testing: Optimized for up to 1×128 splitter configurations
- Optical Power Meter: Up to +30 dBm maximum measured level
- Light Source Modulation: CW, 270 Hz, 1 kHz, 2 kHz
- High-Speed Sweep Mode: 0.2 seconds minimum

Key Features

- Multi-Pulse Measurements: Accurate loss and reflection assessment between closely spaced events
- Real-Time Sweep Modes: High-speed deflection detection and high-SNR noise-suppressed waveform confirmation with instant bending loss detection
- Fiber Visualizer Function: Schematic icon display of fiber events (far end, splitters, connectors, splices) with automatic Pass/Fail evaluation based on preset loss and reflectance thresholds
- Stabilized Light Source: CW and modulated output options for diverse testing scenarios
- Optical Loss & Reflectance Measurement: OLTS functionality for comprehensive fiber characterization
- Ethernet Testing: Network diagnostics for combined optical and electrical fault identification
- Optional Connector Inspection: External fiberscope compatibility for end-face analysis with automated Pass/Fail assessment on unit display

Typical Applications

- FTTx network deployment and certification
- Metro and core network installation
- Mobile fronthaul and backhaul commissioning
- Data center fiber infrastructure verification
- Passive Optical Network (PON) branch verification
- Field troubleshooting of fiber events in high-density environments

Compatibility & Integration

Optical power meter supplied with three selectable configurations supporting SMF/MMF combinations. Visual fault locator included standard. External fiberscope (sold separately) integrates for connector inspection with results displayed on unit screen.

Features & description

From manufacturer datasheet

Features

- ACCESS Master handheld OTDR – Enhanced Dynamic Range (MT9085B) • About 42 dB class dynamic range (option dependent) • 8-inch TFT color touchscreen plus rotary knob and hard keys • HR (high resolution) and ER (enhanced range / PON) modes • Optional built-in light source, OPM, VFL, and VIP • Lithium-ion battery operation up to about 12 hours • Internal storage about 1 GB (up to about 50,000 traces) • Weight about 2.6 kg; dimensions about 284 × 200 × 77 mm

MT9085B Characteristics / Specifications

PARAMETER	VALUE
Model	MT9085B
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – Enhanced Dynamic Range
Series	MT9085 ACCESS Master (A/B/C)
Fresnel Dead Zone	less than or equal to 1 m; 0.8 m typical
Operating Temperature	about -10 to +50 C
Laser Safety	IEC 60825-1 Class 1 class Wavelength Options (examples)
Fiber	SMF ITU-T G.652; MM per option
Pulse Widths	3 ns to 20000 ns class (wavelength/option dependent)
Dynamic Range Conditions	typically 20 us pulse, SNR=1, 25 C (SM options) Family Context
MT9085A	Standard Dynamic Range (about 39 dB class)
MT9085B	Enhanced Dynamic Range (about 42 dB class)
MT9085C	High Performance Dynamic Range (about 46 dB class) Standard Operating Conditions Clean connectors before testing. Select correct fiber type and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.
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General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	about -10 to +50 C
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Laser Safety	IEC 60825-1 Class 1 class Wavelength Options (examples)
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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, about 46 dB class). Typical SM Option 053 delivers 42/41 dB at 1310/1550 nm. The platform combines OTDR, optional light source / optical power meter / VFL, and video inspection probe support with an 8-inch color touchscreen, rotary knob, and hard keys. Fresnel (event) dead zone is typically 0.8 m (less than or equal to 1 m).

Applications

Installation and maintenance of metro, long-haul, and PON/FTTx fiber; live-circuit maintenance with filtered 1650 nm options; hybrid SMF/MMF I&M with Option 063; field fault location with Fiber Visualizer.

Key Features

- ACCESS Master handheld OTDR – Enhanced Dynamic Range (MT9085B)
- About 42 dB class dynamic range (option dependent)
- 8-inch TFT color touchscreen plus rotary knob and hard keys
- HR (high resolution) and ER (enhanced range / PON) modes
- Optional built-in light source, OPM, VFL, and VIP
- Lithium-ion battery operation up to about 12 hours
- Internal storage about 1 GB (up to about 50,000 traces)
- Weight about 2.6 kg; dimensions about 284 x 200 x 77 mm

Technical Specifications

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Model	MT9085B
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Instrument Type	Handheld OTDR – Enhanced Dynamic Range
Series	MT9085 ACCESS Master (A/B/C)
Fresnel Dead Zone	less than or equal to 1 m; 0.8 m typical
Operating Temperature	about -10 to +50 C
Laser Safety	IEC 60825-1 Class 1 class

Wavelength Options (examples)

MT9085B-053: 1310/1550 nm SM; 42/41 dB; backscatter dead zone less than or equal to 5/5.5 m

MT9085B-055: 1310/1550/1650 nm SM; 42/41/35 dB; live-circuit filter

MT9085B-056: 1310/1490/1550 nm SM; 42/41/41 dB; FTTx/PON

MT9085B-057: 1310/1550/1625 nm SM; 40/39/38 dB; macrobend analysis

MT9085B-058: 1310/1490/1550/1625 nm SM; 42/41/41/40 dB

MT9085B-063: 1310/1550 nm SM (42/41 dB) and 850/1300 nm MM (29/28 dB)

Common Optical Specs (brochure conditions)

Specifications

PARAMETER	VALUE
Fiber	SMF ITU-T G.652; MM per option
Pulse Widths	3 ns to 20000 ns class (wavelength/option dependent)
Dynamic Range Conditions	typically 20 us pulse, SNR=1, 25 C (SM options)

Specifications

PARAMETER	VALUE
MT9085A	Standard Dynamic Range (about 39 dB class)
MT9085B	Enhanced Dynamic Range (about 42 dB class)
MT9085C	High Performance Dynamic Range (about 46 dB class)

Standard Operating Conditions
Clean connectors before testing. Select correct fiber type and IOR. Confirm installed wavelength option on the unit label before quoting dynamic range.

Operational Notes
MT9085B is the mainframe dynamic-range class; at least one wavelength option must be installed. Real-line reach is typically cited up to about 110 km class depending on option and fiber.

Ordering Information

OPTION	DESCRIPTION
Option 053	delivers 42/41 dB at 1310/1550 nm. The platform combines OTDR, optional light source / optical power meter / VFL, and video inspection probe support with an 8-i

Laser Safety: IEC 60825-1 Class 1 class Wavelength Options (examples) MT9085B-053: 1310/1550 nm SM; 42/41 dB; backscatter dead zone less than or equal to 5/5.5 m MT9085B-055: 1310/1550/1650 nm SM; 42/41/35 dB; live-circuit filter MT9085B-056: 1310/1490/1550 nm SM; 42/41/41 dB; FTTx/PON MT9085B-057: 1310/1550/1625 nm SM; 40/39/38 dB; macrobend analysis MT9085B-058: 1310/1490/1550/1625 nm SM; 42/41/41/40 dB MT

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.