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Data Sheet

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ANRITSU

Anritsu MT9083C ACCESS Master – Optical Time Domain Reflectometers

Anritsu MT9083C ACCESS Master Optical Time Domain Reflectometer The Anritsu MT9083C is the ultra-high-performance (High Performance Series) model in the MT9083 ACCESS Master handheld OTDR family. It provides dynamic range up to about 45 dB, dual HR/ER modes, and industry-leading PON testing through optical splits up to 1×128. Typical configurations are 1310/1550 nm (about 45/45 dB) and 1310/1550/1625 nm (about 45/45/43 dB). It can measure ultra-long spans over 200 km with reduced averaging time and stores up to about 150,000 data points. SCPI remote commands are supported. The later MT9085C continues the high-performance ACCESS Master class (about 46 dB). The Anritsu MT9083C is the ultra-high-performance (High Performance Series) model in the MT9083 ACCESS Master handheld OTDR family. It provides dynamic range up to about 45 dB, dual HR/ER modes, and industry-leading PON testing through optical splits up to 1×128. Typical configurations are 1310/1550 nm (about 45/45 dB) and 1310/1550/1625 nm (about 45/45/43 dB). It can measure ultra-long spans over 200 km with reduced averaging time and stores up to about 150,000 data points. SCPI remote commands are supported. The later MT9085C continues the high-performance ACCESS Master class (about 46 dB). Long-haul and ultra-long-haul fiber I&M; PON/FTTx testing through up to 1×128 splits; high dynamic-range metro OTDR; automated pass/fai



MODEL Anritsu MT9083C	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU MT9083C	LISTING https://aumictechlabs.com/products/mt9083c-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MT9083C ACCESS Master is an Optical Time Domain Reflectometer (OTDR) platform engineered for end-to-end fiber analysis across FTTx, long-haul, and metro optical networks. It consolidates reflectometry, power measurement, and IP testing into a single portable unit, streamlining installation and maintenance workflows while delivering high-resolution measurements across multimode and singlemode fiber spans exceeding 200 km. Technical Specifications Optical Performance Dynamic Range: Up to 46 dB (MT9083C2 model) Data Points: Up to 150,000 for detailed fiber analysis Dead Zone: Typically 0.8 m High Resolution (HR) Mode: <1 m dead zone resolution Enhanced Range (ER) Mode: Tests 100 km fiber in under 10 seconds PON Testing: Supports up to 128 splits (MT9083C2) Wavelength Support Multimode Fiber (MMF): 850 nm, 1300 nm Singlemode Fiber (SMF): 1310 nm, 1490 nm, 1550 nm, 1625 nm, 1650 nm Legacy CWDM Certification: 1383 nm In-Service Troubleshooting: 1650 nm (ITU-T recommended) Display & Interface Display: 7-inch widescreen TFT-LCD, 800 × 400 resolution with LED backlight Key Features One-Button Fault Location with automated fault identification Automated Pass/Fail classification and file naming Macrobend detection for installation verification IP Testing Option: Gigabit Ethernet link verification, throughput measurement up to full line rate, frame loss analysis, and QoS verification Fiber Visualizer: Automatic parameter selection with graphical fiber summary Integrated light source and power meter SCPI remote command support for automated testing USB data storage and Bluetooth/Wi-Fi/Ethernet connectivity via USB converters Typical Applications FTTx network installation and certification Long-haul and metro span troubleshooting Legacy fiber CWDM upgrade verification In-service fiber diagnostics without service interruption Quality assurance testing for Gigabit Ethernet delivery Compatibility & Integration Supports multimode and singlemode fiber types. Dual-mode operation enables selection between High Resolution and Enhanced Range modes for mission-specific requirements. SCPI-based remote control enables integration with automated test systems.

Features & description

From manufacturer datasheet

Features

- ACCESS Master handheld OTDR – High Performance Series (up to 45 dB) • PON testing up to 1×128 splits • Dual-circuit HR / ER mode selection • Up to about 150,000 data points • Fast testing of 10-100 km common spans • One-button fault location, pass/fail, automated file naming • Macrobend detection
- SCPI remote command support • Optional connector inspection features per configuration

MT9083C Characteristics / Specifications

PARAMETER	VALUE
Model	MT9083C
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – ACCESS Master High Performance Series
Dynamic Range Class	up to 45 dB
PON Support	up to 1×128 splits
Modes	HR (high resolution) and ER (enhanced range)
Data Points	up to about 150,000 Example Wavelength Options (brochure tables)
Fresnel Dead Zone	less than or equal to 1 m; about 0.8 m 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
MT9085C	current High Performance Dynamic Range ACCESS Master (about 46 dB) Standard Operating Conditions Clean connectors. Select HR vs ER for span length vs resolution. Confirm installed option (053/057) before quoting DR. Platform ready-to-test in less than about 15 seconds; extended battery operation for field days.

MT9083C Specifications

PARAMETER	VALUE
Key Features	- ACCESS Master handheld OTDR — High Performance Series (up to 45 dB)
Technical Specifications	Model: MT9083C
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 (High Performance Series) model in the MT9083 ACCESS Master handheld OTDR family. It provides dynamic range up to about 45 dB, dual HR/ER modes, and industry-leading PON testing through optical splits up to 1x128. Typical configurations are 1310/1550 nm (about 45/45 dB) and 1310/1550/1625 nm (about 45/45/43 dB). It can measure ultra-long spans over 200 km with reduced averaging time and stores up to about 150,000 data points. SCPI remote commands are supported. The later MT9085C continues the high-performance ACCESS Master class (about 46 dB).

Applications

Long-haul and ultra-long-haul fiber I&M; PON/FTTx testing through up to 1x128 splits; high dynamic-range metro OTDR; automated pass/fail fault location with macrobend detection; SCPI-automated field and production OTDR.

Key Features

- ACCESS Master handheld OTDR – High Performance Series (up to 45 dB)
- PON testing up to 1x128 splits
- Dual-circuit HR / ER mode selection
- Up to about 150,000 data points
- Fast testing of 10-100 km common spans
- One-button fault location, pass/fail, automated file naming
- Macrobend detection
- SCPI remote command support
- Optional connector inspection features per configuration

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MT9083C
Manufacturer	Anritsu
Instrument Type	Handheld OTDR – ACCESS Master High Performance Series
Dynamic Range Class	up to 45 dB
PON Support	up to 1x128 splits
Modes	HR (high resolution) and ER (enhanced range)
Data Points	up to about 150,000

Example Wavelength Options (brochure tables)

MT9083C-053: 1310/1550 nm SM; about 45/45 dB; backscatter DZ less than or equal to 3.8/4.3 m; about 25/25 dB at 100 ns pulse class notes in tables

MT9083C-057: 1310/1550/1625 nm SM; about 45/45/43 dB; backscatter DZ less than or equal to 3.8/4.3/4.8 m

Specifications

PARAMETER	VALUE
Fresnel Dead Zone	less than or equal to 1 m; about 0.8 m typical
Pulse Widths	3 ns to 20000 ns class
Fiber	SMF 10/125 um ITU-T G.652

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
MT9085C	current High Performance Dynamic Range ACCESS Master (about 46 dB)

Standard Operating Conditions

Clean connectors. Select HR vs ER for span length vs resolution. Confirm installed option (053/057) before quoting DR. Platform ready-to-test in less than about 15 seconds; extended battery operation for field days.

Operational Notes

Do not confuse MT9083C with MT9083B (lower DR / 1x64) or MT9085C (newer series). Exact dynamic range depends on the wavelength option sticker.

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.