MT9083 Series
MT9083A2/B2/C2 ACCESS Master™
850/1300 nm OTDR for Multimode Fiber
1310/1490/1550/1625/1650 nm OTDR for Single Mode Fiber
All-in-one Solution that Reduces Testing Times to Install and Maintain FTTx, CATV, LAN, Access and Metro Networks

850/1300 nm OTDR for MMF
1310/1490/1550/1625/1650 nm OTDR for SMF

MT9083 SERIES ACCESS MASTER OVERVIEW

Optical fibers are a key technology in today’s modern communications systems, including access networks such as FTTx, CATV, and optical LANs. Moreover, optical-fiber technologies are playing increasingly important roles in mobile communications and digital broadcasting systems. Technicians maintaining these diverse systems are forced to carry a large variety of test equipment on-site, including OTDRs, Light Sources, Optical Power Meters, Visible Light Sources, etc. On the other hand, fiber construction requires measuring instruments with different functions and performance. As an example, FTTx access networks use single mode (SM) fiber whereas optical LANs use multimode (MM) fiber. In addition, core and backbone networks utilize long fibers while optical access networks use short fibers, both requiring different types of measuring instruments with different performance. But now Anritsu’s new line of MT9083 ACCESS Master OTDRs solves all these problems by providing all the measurement functions and performance required for optical fiber construction and maintenance in a compact, lightweight, all-in-one unit that eliminates the burden of carrying many different test sets and instruments on-site. Whatever your work, construction or maintenance, long haul or intra-building, Anritsu has an MT9083 model for your needs.

ACCESS Master Key Features

• Specialized testing modes simplify operation
• High resolution and high dynamic range ensure quick and through fiber evaluation
• Intelligent analysis software identifies problem splices, connectors and even macrobends
• Rugged, sealed design provides years of service in the most challenging environments
• Large 7-inch enhanced display for easy viewing of results indoors or outdoors
• Test multiple wavelengths with a single unit - single mode, multimode or both
• Unique in-service testing without the need for external filters
• New feature offering easy graphical summary & PDF reporting
• Verify connector quality with optional connector inspection microscope
• Password protection feature for important file on-internal memory
• Bluetooth, Wi-Fi and Ethernet connectivity*

* These features use an USB Ethernet converter, USB Wi-Fi dongle, or USB Bluetooth dongle.

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Full SCPI Command Support for Remote Operation or Automated Testing

Multiple Models to Meet Any Testing Requirement

• MT9083A2: General purpose, enhanced range with full 1 × 64 PON support, up to 39 dB.
• MT9083B2: High performance, enhanced range with full 1 × 64 PON support, up to 42 dB.
• MT9083C2: Ultra-high performance, enhanced range with full 1 × 128 PON support, up to 46 dB.

MT9083 Series

MT9083A2/B2/C2 ACCESS Master™
850/1300 nm OTDR for Multimode Fiber
1310/1490/1550/1625/1650 nm OTDR for Single Mode Fiber
New Feature Highlight

Anritsu is now pleased to announce the enhanced MT9083A2/B2/C2 models. The ACCESS Master MT9083x2 now features a 7-inch widescreen TFT-LCD display for use both indoors and outdoors, enhanced battery operation time (up to 12 hours), increased operating temperature range (−10° to +50°C) and new short-cut function keys.

Enhancements:
- Larger (7 inch), higher resolution (800 × 480) display with LED backlight
- Longer battery operation time: Up to 12 hours
- Wider operating temperature range: −10° to +50°C
- New shortcut keys to simplify operation: quickly change between trace and event table or access set-ups and mass storage
- Lighter – now only 2.6 kg (5.7 lbs)!

**Optimized for Verifying PON Splitters Up to 1 × 128 Count**

Many OTDRs claim to be able to test splitter-based, passive optical networks (PON) but the MT9083 delivers in a way others wish they could. With its high dynamic range and quick data acquisition, the MT9083 provides unparalleled resolution of single or closely spaced, cascaded splitters up to an industry-leading 1 × 128 count.

Fig 1: Typical PON 1 × 64 count System Measurement from the customer premise. The MT9083 Series Enhanced Range Mode and a Pulse width of 100 ns provides excellent dynamic range while not compromising deadzone resolution to clearly display multiple, high loss splitters.
When buying products, you tend to choose ones that are innovative and from established companies. When you need to install and maintain optical networks, this should also apply. With over 50 years of combined OTDR design, Anritsu, delivers the features that matter.

Having been in the test and measurement business for a long time, we understand that things like performance, portability, reliability, easy operation and of course price are important.

**Long Battery Life**
Since AC power is not always available where you need it, especially at fiber pedestals, the MT9083 typically provides up to 12 hours of operation on a single charge. This coupled with an optional car cord (for cigarette lighter operation) guarantees the MT9083 is ready when you are.

**Portable**
With its light weight design and user friendly dimensions, the MT9083 is perfect for the outside plant environment and can easily be managed with one hand. The shoulder strap (part of the protector option) further increases portability when travelling from the truck to the testing site.

**Rugged**
The MT9083 features a solid casework with no fans or vents to keep dust or moisture from entering the unit. In addition, the protector option (MT9083A2/B2/C2-010) includes rubber bumpers and a display cover for additional protection from those minor mishaps.

**Generous Data Storage**
With the ability to store up to 1,000 traces in internal memory and up to 30,000 via a USB device, the MT9083 offers plenty of storage for collecting and managing data.

**No Experience Required**
With the ACCESS Master, the experience is built in. With specialized testing modes, automatic parameter selection, PASS/FAIL indicators as well as features to virtually eliminate the chance to get “bad” results, the MT9083 can make anyone seems like a 20 year veteran. Let it help you master your network.

**Easy “drag and drop” File Transfers**
When the MT9083 is connected to a PC via a USB cable, the internal memory of the ACCESS Master can be directly accessed. Data can be selected, dragged and dropped into the PC memory, greatly simplifying file transfers. The MT9083 also supports use of USB memory sticks.

**Common OTDR Data Format**
The MT9083 supports the universal Telcordia SR-4731 (issue 2) format making it compatible with not only legacy Anritsu and NetTest products, but with many other vendors data.

**Free and Simple Software Upgrades**
Firmware upgrades are easily performed via USB and available from the Anritsu website for registered users or through Anritsu customer support.

**Active Fiber Check**
Not only can OTDR measurements be affected when the optical fiber is in-service but there is a potential risk of damage to the transmitter and OTDR receiver. To prevent these problems, the MT9083 verifies if light is present before starting measurement and will not transmit if it is.

An on-screen warning and internal OTDR protection are also part of this useful feature.

**Integrated Macro bend Detection**
With many technicians making the switch from copper installations to optical fiber, installation issues such as macrobends are bound to occur. To help prevent this, Anritsu has developed a macrobend detection feature for the MT9083 that will alert technicians when a possible macrobend is present. This provides a higher quality of service for the customer and eliminates costly troubleshooting for you.

**Multiple Wavelengths and Models**
Whether you need singlemode and multimode testing capabilities in one unit or standard 1310 nm & 1550 nm installation wavelengths plus 1650 nm with a filter for maintenance testing. The ACCESS Master can be configured to meet your individual needs.
Compact, Light Weight and All-in-one

With its versatile built-in functions, the ACCESS Master offers the ideal solution for efficient optical fiber construction and maintenance.

All-in-one Test Set

The MT9083 delivers full featured OTDR performance plus loss test set and quality of service measurement in a surprisingly small and lightweight package. At only 28.4 cm wide × 20 cm tall × 7.7 cm deep and 2.6 kg (5.7 lbs.), it is field portable, yet rugged enough to withstand the outside plant environment. When equipped with power meter and visual light source options, it replaces several, larger pieces of test equipment.

1. Up to 10 hours battery life plus quick recharge
2. Optical Power meter options with up to +30 dBm measurement range
3. Visible laser source for easy fiber identification and bend/break location
4. Up to three wavelengths from a single port for any application
5. Dual USB ports for easy data transfer and connector inspection microscope
6. Dedicated short-cut keys to quickly move between events or view trace fill screen
7. Numeric keypad with dedicated keys for easy operation
8. Dedicated function keys for selecting parameters
9. Rotary dial for precision cursor movement
10. Arrow keys for quick zooming and navigation through menus
11. START key for simple one-button testing
12. 7 inch indoor/outdoor color TFT-LCD display with LED backlight

With its versatile built-in functions, the ACCESS Master offers the ideal solution for efficient optical fiber construction and maintenance.
Evaluation of access networks ranging from a few kilometers to metro networks reaching up to 100 km in length is becoming commonplace, requiring OTDRs to have the performance and functions for evaluating both short and long fibers. Designed with this in mind, the ACCESS Master delivers on both fronts.

**Improved Short Fiber Analysis**

An event dead zone of less than 1 m (80 cm typical) and a sampling resolution of 5 centimeters allow the MT9083 to evaluate connections and troubleshoot central office, FTTx and intra-building faults with ease – providing a level of detail never before seen.

**Extended Range Testing of 200 + km Fibers**

In addition to its superb high-resolution performance, the MT9083 also features up to 46 dB of dynamic range allowing it to easily test 200 + km spans making it a very useful tool for any network type.

**Fig. 3:** With its high resolution optics, the MT9083 provides exceptional detail allowing users to quickly determine where the problem is - even when events are closely spaced.

**Fig. 4:** Spans of over 200 km are also easily tested making the MT9083 the only tool you will need - for any network type.

**Convenient Features**

**Full PON Testing**

Many OTDRs claim to be able to test PONs but being able to do it with both high resolution and high range is what sets the MT9083 series apart. Splitters up to a single 1 × 128 or closely spaced, cascaded splitters are completely and accurately measured with industry leading resolution.

**Fig. 5:** The MT9083 series provides high range and excellent resolution of PON systems

**Waveform Comparison Function**

Compare current and stored trace data to easily assess changes over time and to locate problems before they affect service or compare traces at different wavelengths to identify installation issues such as macrobending.

**Standard High Resolution Display**

The MT9083 series now features a standard 7" high resolution display with excellent readability both indoors and outdoors – even in direct sunlight.

**Dual-mode High Resolution/Enhanced Range Operation**

While many OTDRs provide good deadzone resolution or high dynamic range, the MT9083 series features a dual-mode design that allows a single unit to excel in both categories. The user can simply select HIGH RESOLUTION (HR) mode or ENHANCED RANGE (ER) based on the current task at hand. When HR mode is selected, this mode provides good measurement range with an industry leading deadzone (<1 m). When ER mode is selected, it provides unparalleled performance for measurement distance, measurement speed and deadzone - allowing a 100 km fiber to be tested in less than 10 seconds. ER mode is also used for testing PON networks with up to 128 branches.

**Up to 150,001 Data Points for Increased Accuracy**

The MT9083 series also collects up to 150,001 with a resolution of just 2 m. This provides the necessary detail when installing and maintaining fiber spans.

**Event Table with User Defined Thresholds**

PASS/FAIL thresholds for key acceptance criteria such as splice loss, connector loss and reflectance can be set in the MT9083 allowing technicians to easily assess a fiber’s condition. Failing values are clearly highlighted in the event table alerting technicians of potential problems.
Solutions for Various Measurement Needs

Products that offer many features are often complicated to use. The ACCESS Master however, simplifies operation by offering task-specific testing modes that automate testing and guide novice users. Dedicated testing modes are available for fault location, cable installation, loss budget testing, and visual fault location.

Fiber Visualizer
“Fiber Visualizer” is a new fault location function designed to simplify the entire testing process. Fiber Visualizer automatically selects the testing parameters to ensure the correct setup and provides a simple graphical summary of the fiber under test within seconds. A comprehensive PDF report can then be customized and generated, completing the testing process. In addition, these files can be opened on PDF viewer.

Simple Operation
To simplify testing, the MT9083 features dedicated measurement modes via the top menu to automate and simplify the task at hand.

Fig. 9: Dedicated measurement modes simplify testing for any skill level.

General OTDR Testing
For those who have more experience or would like to perform more advanced testing, STANDARD OTDR mode allows the user to set all parameters and compare traces manually, automatically or somewhere in between.

Optical Fiber Construction and Certification
When final cable acceptance is the task at hand, CONSTRUCTION mode greatly simplifies operation through its innovative wizard. Select the required testing wavelengths, number of fibers and file naming scheme and construction mode acts as the project manager guiding the user through the testing, while ensuring consistency with testing parameters and filenames – virtually eliminating user induced errors and missing files.

Value
Whatever your construction or maintenance needs, the Access Master MT9083 is designed to reduce the time to install, commission and maintain your optical networks – without breaking your budget.

NETWORKS PC Software for Analysis and Reporting
Once the data is collected, NetWorks PC emulation software makes analysis and report generation a breeze. Professional reports including splice loss, fiber acceptance and exceptions as well as various printing options are possible with only a few mouse clicks.

Template Feature
To simplify fiber acceptance, the Access Master incorporates an on-the-fly template feature to quickly locate and measure all splices in a fiber cable. In addition, an on-screen highlight blocks out the expected splice locations during trace acquisition.

Remote Command Support
To simplify and automate testing in manufacturing and lab environments, the MT9083 supports SCPI commands. Through the use of a USB converter and a common scripting program such as LabView™, the MT9083 can be quickly integrated and immediately reduce testing times. Remote control can also be used for remote, unmanned monitoring applications.
Complete Loss Test Set Features

Standard Stabilized Light Source
The OTDR port also functions as a stabilized light source providing continuous wave, 270 Hz, 1 kHz and 2 kHz modulations for easy fiber identification. This is standard equipment on all single mode models - a chargeable option on most other OTDRs.

Standard or Optional Integrated Power Meter
In the base unit, the OTDR port also functions as an integrated power meter for verification of optical power levels. Additional power meter options are available for higher power transmissions and loopback testing.

Visual Laser Source for Easy Fault Location and Fiber Identification
A Visible Light Source is useful for tracking down bad connections, splices and fiber management issues such as macrobends. The optional Visible Light Source is factory installed in the MT9083 and features up to 5 km (3 miles) of operation.

Video Inspection Probe (VIP) Application – Complete Connector Inspection

Data Table for Saved Results
Loss test set measurements for multiple wavelengths can be saved into a results table for easy comparison and archiving. The table can also be saved as a text file and exported to a PC spreadsheet program for further manipulation or integration into a standard company template.

Video Inspection Probe Support
When equipped with the optional connector video inspection probe (VIP), the MT9083 becomes a powerful tool for evaluating connector cleanliness and quality. Connector end faces can be safely viewed and images stored to document all aspects of your network. We have added a Pass/Fail analysis function to the conventional VIP. This new function inspects the state of the connector end using video. It can automatically inspect the end of the optical connector for defects and scratches (The automatic pass/fail determination is made in accordance with the IEC61300-3-35 standard.) You can also create a PDF report on the MT9083 series.

Others

Bluetooth, Wi-Fi and Ethernet Connectivity
The Bluetooth feature enables you to share files between the MT9083x2 series and a PC. The Wi-Fi and Ethernet features enable you to share files as well as use the remote GUI feature. You can connect the MT9083x2 and PC, and control the MT9083x2 series from a browser.

Password Protection Feature
A password protection feature has been added to the MT9083. When you use this feature, users will be required to enter a password as soon as the system boots. Users will not be able to use the system until the password is authenticated.

This feature is useful if you want to limit the use of your measuring instruments to designated users, or you want to protect important files on the system’s on-internal memory.
MT9083A2/B2/C2 ACCESS Master Common Specifications

Dimensions and Mass

<table>
<thead>
<tr>
<th>Without Protector (Option 010)</th>
<th>Dimensions: 270 (W) × 165 (H) × 61 (D) mm, 10.6 × 6.5 × 2.4 inches</th>
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<tbody>
<tr>
<td>Mass</td>
<td>1.6 kg, 1.9 kg including battery</td>
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<table>
<thead>
<tr>
<th>With Protector (Option 010)</th>
<th>Dimensions: 284 (W) × 200 (H) × 77 (D) mm, 11.2 × 7.9 × 3 inches</th>
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<tbody>
<tr>
<td>Mass</td>
<td>2.6 kg including battery</td>
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</table>

Display

| 7-inch TFT-LCD (800 × 480, with LED backlight), Indoor/Outdoor type |

Interface

1.1, Type A × 1 (memory), Type B × 1 (USB mass storage)

Data Storage

| Internal memory: 1 GB (50,000 traces), External memory (USB): up to 32 GB |

Power Supply

12 V(dc), 100 V(ac) to 240 V(ac), Allowable input voltage range: 90 V to 264 V, 50 Hz/60 Hz

Battery

<table>
<thead>
<tr>
<th>Type: Lithium-ion</th>
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<tr>
<td>Operating Time*: 12 hours, Telcordia GR-196-CORE Issue 2, September 2010</td>
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<tr>
<td>Recharge Time: &lt;5 hours (power off)</td>
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</tbody>
</table>

Power Saving Functions

| Backlight off: Disable/1 to 99 minutes |
| Auto shutdown: Disable/1 to 99 minutes |

Vertical Scale

0.13, 0.33, 0.65, 1.3, 3.25, 6.5, 13 dB/div

IOR Setting

1.300000 to 1.699999 (0.000001 steps)

Units

km, m, kft, ft

Languages

User selectable (English, Simplified Chinese, Traditional Chinese, French, German, Italian, Korean, Portuguese, Russian, Spanish and Swedish - contact Anritsu for availability of others)

Sampling Points

*2

Normal: 5001, High density: 20001 or 25001, Very high density: 100,001 or 150,001

Sampling Resolution

5 cm (min.)

Refractance Accuracy

Single mode: ±2 dB, multimode: ±4 dB

Distance Accuracy

±1 m ±3 × measurement distance × 10⁻⁵ ± marker resolution (excluding IOR uncertainty)

Distance Range

| Single mode: 0.5, 1, 2.5, 5, 10, 25, 50, 100, 200, 300 km |
| Multimode: 0.5, 1, 2.5, 5, 10, 25, 50, 100 km |

Testing Modes

Fiber Visualizer: Provides end/break location, end to end loss, fiber length, easy graphical summary, PDF report, PDF viewer
Standard OTDR: User selectable automatic or manual set-up
Construction OTDR: Automated, multi-wavelength testing
Light source: Stabilized Light source (CW, 270 Hz, 1 kHz, 2 kHz output)
Loss test set (optional): Power meter and Light source
Connector Video Inspection Probe
Visual fault locator (optional): Visible red light for fiber identification and troubleshooting

Fiber Event Analysis

Auto or manual operation, displayed in table format
User defined PASS/FAIL thresholds:
- Reflective and non-reflective events: 0.01 to 9.99 dB (0.01 dB steps)
- Reflectance: –70.0 to –20.0 dB (0.1 dB steps)
- Fiber end/break: 1 to 99 dB (1 dB steps)
Number of detected events: up to 99
Macro bend detection

OTDR Trace Format

Telcordia universal. SOR, issue 2 (SR-4731)

Other Functions

Real time sweep*3: 0.15 sec.
Loss modes: 2-point loss, dB/km, 2-point LSA, splice loss, ORL
Averaging modes: Timed (1 to 3600 sec.)
Live Fiber detect: Verifies presence of communication light in optical fiber
Connection check: Automatic check of OTDR to FUT connection quality
Trace overlay and comparison, Template function, USB keyboard support, Remote control, Video output to PC
Password protection feature
Bluetooth, Wi-Fi and Ethernet Connectivity

Environmental Conditions

Operating temperature and humidity: –10° to +50°C, <80% (non-condensing)
Storage temperature and humidity: –20° to +60°C, <80% (non-condensing)
Vibration: Conforming to MIL-T-28800E Class 3
Dust proof: MIL-T-28800E (Dust Exposure) Class 2
Drip proof: IP51 (IEC 60529), JIS C 0920 TYPE I

CE

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<th>EMC</th>
<th>EN61326-1, EN61000-3-2</th>
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<td>LVD</td>
<td>EN61010-1</td>
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<tr>
<td>RoHS</td>
<td>EN50568</td>
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</table>

*1: Typical, backlight off, sweeping halted at 25°C, 6 hours typical continuous testing
*2: Either high density value is selected depending on distance range
*3: Resolution: Low Density
### OTDR Specifications

#### MT9083C2

<table>
<thead>
<tr>
<th>Options</th>
<th>HR/ER Mode*4</th>
<th>Wavelength*5</th>
<th>Fiber Type</th>
<th>Pulse Width</th>
<th>Dynamic Range*6,7</th>
<th>Deadzone (Fresnel)*8 (IOR = 1.500000)</th>
<th>Deadzone (Backscatter)*9 (IOR = 1.500000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083C2-053</td>
<td>✓</td>
<td>1310/1550 nm ±25 nm</td>
<td>Single Mode (SMF) 10/125 μm ITU-T G.652</td>
<td>3, 10, 20, 50, 100, 200, 500, 1000, 2000, 4000, 10000, 20000 ns</td>
<td>46/46 dB†††</td>
<td>≤1 m, s80 cm (typ.)</td>
<td>≤3.8/4.3 m</td>
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<tr>
<td>MT9083C2-057</td>
<td>✓</td>
<td>1310/1550/1625 nm ±25 nm</td>
<td></td>
<td></td>
<td>25/25 dB♭♭♭ (Pulse width: 100 ns)</td>
<td>46/46/44 dB♭♭♭ (Pulse width: 100 ns)</td>
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#### MT9083B2

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<tr>
<th>Options</th>
<th>HR/ER Mode*4</th>
<th>Wavelength*5</th>
<th>Fiber Type</th>
<th>Pulse Width</th>
<th>Dynamic Range*6,7,!*13</th>
<th>Deadzone (Fresnel)*8 (IOR = 1.500000)</th>
<th>Deadzone (Backscatter)*9 (IOR = 1.500000)</th>
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<tbody>
<tr>
<td>MT9083B2-053</td>
<td>✓</td>
<td>1310/1550 nm ±25 nm</td>
<td>Single Mode (SMF) 10/125 μm ITU-T G.652</td>
<td>3, 10, 20, 50, 100, 200, 500, 1000, 2000, 4000, 10000, 20000 ns</td>
<td>42/41 dB†††</td>
<td>≤1 m, s80 cm (typ.)</td>
<td>≤5/5.5 m</td>
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<td>MT9083B2-055</td>
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<td>1310/1550 nm ±25 nm, 1650 nm ±5 nm</td>
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<td></td>
<td>42/41/35 dB♭♭♭</td>
<td>≤5/5.5/6.5 m</td>
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<td>MT9083B2-056</td>
<td>✓</td>
<td>1310/1490/1550 nm ±25 nm</td>
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<td>42/4/41 dB♭♭♭</td>
<td>≤6/6.5/6.5 m</td>
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<tr>
<td>MT9083B2-057</td>
<td>✓</td>
<td>1310/1550/1625 nm ±25 nm</td>
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<td></td>
<td>40/39/38 dB♭♭♭</td>
<td>≤6/6.5/7.5 m</td>
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<td>MT9083B2-058</td>
<td>✓</td>
<td>1310/1490/1550/1625 nm ±25 nm</td>
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<td></td>
<td>42/41/41/40 dB♭♭♭</td>
<td>≤7/7.5/7.5/8.5 m</td>
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<tr>
<td>MT9083B2-063</td>
<td>✓</td>
<td>1310/1550 nm ±25 nm, 850/1300 nm ±30 nm</td>
<td>HYBRID (SMF/MMF)*12</td>
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<td>42/41 dB♭♭♭</td>
<td>≤5/5.5 m, s4/5 m (3/4 m typ.)</td>
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#### MT9083A2

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<tr>
<th>Options</th>
<th>HR/ER Mode*4</th>
<th>Wavelength*5</th>
<th>Fiber Type</th>
<th>Pulse Width</th>
<th>Dynamic Range*6,7,!*13</th>
<th>Deadzone (Fresnel)*8 (IOR = 1.500000)</th>
<th>Deadzone (Backscatter)*9 (IOR = 1.500000)</th>
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<tr>
<td>MT9083A2-073</td>
<td>✓</td>
<td>1310/1550 nm ±25 nm</td>
<td>Single Mode (SMF) 10/125 μm ITU-T G.652</td>
<td>3, 10, 20, 50, 100, 200, 500, 1000, 2000, 4000, 10000, 20000 ns</td>
<td>39/37.5 dB♭♭♭</td>
<td>≤1 m, s80 cm (typ.)</td>
<td>≤5/5.5 m</td>
</tr>
<tr>
<td>MT9083A2-055</td>
<td>✓</td>
<td>1310/1550 nm ±25 nm, 1645 nm to 1655 nm</td>
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<td>38.5/37/34.5 dB♭♭♭</td>
<td>≤5/5.5/6.5 m</td>
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<td>MT9083A2-057</td>
<td>✓</td>
<td>1310/1550/1625 nm ±25 nm</td>
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<td>37/35.5/32.5 dB♭♭♭</td>
<td>≤6/6.5/7.5 m</td>
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<tr>
<td>MT9083A2-063</td>
<td>✓</td>
<td>1310/1550 nm ±25 nm, 850/1300 nm ±30 nm</td>
<td>HYBRID (SMF/MMF)*12</td>
<td></td>
<td>39/37.5 dB♭♭♭</td>
<td>≤5/5.5 m, s4/5 m (3/4 m typ.)</td>
<td></td>
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</tbody>
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*4: HR: High Resolution mode for Short dead zone.
*5: 25°C, Pulse width: 1 μs (all except 850 nm, 1300 nm), 850 nm/1300 nm: 100 ns
*6: Pulse widths: 20 μs (Options 053, 055, 056, 057, 063, 073, 1310 nm/1550 nm) at Distance range: 100 km
*7: Dynamic range (one-way back-scattered light), SNR = 1: The level difference between the RMS noise level and the level where near end back-scattering occurs.
*8: Pulse width: 3 ns (Options 053, 055, 056, 057, 058, 063, 073)
*9: Pulse width 10 ns, return loss 55 dB, Deviation ±0.5 dB, 25°C
*10: Pulse width: 100 ns (ER Mode), Distance range: 100 km
*11: Typical Subtract 1 dB for guarantee
*12: At measurement of 50 μm/125 μm MM Fiber, the dynamic range drops by about 3.0 dB
*13: Pulse width: 100 ns (ER Mode), Distance range: 100 km
*14: Laser Safety

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IEC 60825-1: 2007 CLASS 1M: option 053, 055, 056, 057, 058, 063, 073
21 CFR1040.10 Excludes deviations caused by conformance to Laser Notice No. 50 dated June 24, 2007

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**This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.**
Light Source Specifications – Standard on all models\(^*\)

<table>
<thead>
<tr>
<th><strong>Stabilized Light Source (through OTDR port)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wavelength</strong>(^*)</td>
</tr>
<tr>
<td><strong>Spectral Width</strong>(^*)</td>
</tr>
<tr>
<td><strong>Wavelength Accuracy</strong></td>
</tr>
<tr>
<td><strong>Fiber Type</strong></td>
</tr>
<tr>
<td><strong>Optical Connector</strong></td>
</tr>
<tr>
<td><strong>Output Power</strong>(^*)</td>
</tr>
<tr>
<td><strong>Output Stability</strong>(^*)</td>
</tr>
<tr>
<td><strong>Modes of Operation</strong>(^*)</td>
</tr>
<tr>
<td><strong>Laser Safety</strong></td>
</tr>
</tbody>
</table>

Power Meter Specifications – Standard on all models\(^*\)

<table>
<thead>
<tr>
<th><strong>Standard Integrated Power Meter</strong>(^*) (through OTDR port)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Input</strong></td>
</tr>
<tr>
<td><strong>Measurement Range</strong></td>
</tr>
<tr>
<td><strong>Fiber Type</strong></td>
</tr>
<tr>
<td><strong>Optical Connector</strong></td>
</tr>
<tr>
<td><strong>Accuracy</strong>(^*)</td>
</tr>
<tr>
<td><strong>Setting Wavelengths</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
</tbody>
</table>

Loss Test Set Specifications – Optional on all Models\(^*\),\(^*\)

<table>
<thead>
<tr>
<th><strong>Power meters (004, 005 and 007)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fiber Type</strong></td>
</tr>
<tr>
<td><strong>Measurement Range</strong>(^*)</td>
</tr>
<tr>
<td><strong>Wavelength Range</strong></td>
</tr>
<tr>
<td><strong>Setting Wavelengths</strong></td>
</tr>
<tr>
<td><strong>Optical Connector</strong></td>
</tr>
<tr>
<td><strong>Accuracy</strong>(^*)</td>
</tr>
<tr>
<td><strong>Modulation</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
</tr>
</tbody>
</table>

Visible Light Source (Option 002)

| **Central Wavelength** | 650 nm ±15 nm (at 25°C) |
| **Optical Output** | 0 ±1 dBm (CW) |
| **Output Optical Fiber** | 10 μm/125 μm, SMF (ITU-T G.652) |
| **Optical Connector** | 2.5 mm universal |
| **Environmental** | Operating temperature and humidity: 0° to +50°C, <80% (non-condensing) |

\(^*\): Some models do not support power meter (See next page)

\(^15\): If option 004, 005 or 007 is ordered, the standard integrated power meter is not available

\(^16\): CW, 25°C

\(^17\): CW, −10° to +50°C (±1°C) difference between max/min. values over 1 minute, SM fiber 2 m

\(^18\): Modulation +1.5% with 10 minute warm up

\(^19\): Power output: subtract 3 dB for modulated tones

\(^20\): CW input, −20 dBm at 1550 nm, 23°C ±2 using Master FC connector

\(^21\): Peak power, subtract 3 dB for modulated tones

\(^22\): −60 to +3 dBm (Option 007 G.652)

\(^23\): CW, model 007: At −10 dBm, 1310 nm/1550 nm, At −10 dBm, 850 nm, 25°C model 004/005: At 0 dBm, 1310 nm and 1550 nm, Using Master FC connector, After zero offset

\(^24\): Safety measures for laser products

This option complies with optical safety standards in IEC 60825-1, 21CFR1040.10 and 1040.11; the following descriptive labels are affixed to the product.
Standard Light Source and Power Meter Built-in

LS: MT9083A2/B2/C2 standard built-in stabilized Light Source,
OPM: MT9083A2/B2/C2 standard built-in Optical Power Meter

<table>
<thead>
<tr>
<th>Options</th>
<th>Optical Port</th>
<th>LS</th>
<th>OPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083B2/C2-053</td>
<td>1310/1550 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MT9083A2-073</td>
<td>1310/1550 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MT9083A2/B2-055</td>
<td>1310/1550 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>1650 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MT9083B2-056</td>
<td>1310/1490/1550 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MT9083A2/B2/C2-057</td>
<td>1310/1550/1625 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MT9083B2-058</td>
<td>1310/1490/1550/1625 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MT9083A2/B2-063</td>
<td>850/1300 nm MM</td>
<td>✓</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1310/1550 nm SM</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Battery Pack: Z0921A

<table>
<thead>
<tr>
<th>Battery</th>
<th>Lithium Ion secondary battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage, Capacity</td>
<td>11.1 V, 4200 mAh</td>
</tr>
<tr>
<td>Dimensions and Mass</td>
<td>53 (W) × 19 (H) × 215 (D) mm, 330 g (typ.)</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Charging: +5° to +30°C, ≤80%RH</td>
</tr>
<tr>
<td></td>
<td>Discharging: −20° to +60°C, ≤80%RH</td>
</tr>
<tr>
<td></td>
<td>Storage: −20° to +50°C, ≤80%RH</td>
</tr>
</tbody>
</table>

AC Adapter: Z1625A

| Rated AC Input | 100 V(ac) to 240 V(ac), 50 Hz/60 Hz |
| Rated DC Output | 12 V(dc), 5 A |
| Environmental Conditions | Operating: 0° to +45°C, 20 to 80% R.H. |
| | Storage: −20° to +70°C, 10 to 90% R.H. |
Ordering Information

Please specify the model/order number, name and quantity when ordering. The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

1) Specify Base Unit
Includes ACCESS Master OTDR, AC charger/adapter, line cord, battery pack (1), printed quick user’s guide and user’s manual (CD).

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083A2/B2/C2</td>
<td>ACCESS Master base unit, Enhanced display for indoor/outdoor use</td>
</tr>
</tbody>
</table>

**Standard Accessories**

- Power Cord
- Z1625A Replacement AC Adapter for MT9083 Series
- Z0921A Replacement Battery Pack for MT9083 Series
- W3644AE CD of MT9083 Series Operation Manual

2) Select Optical Configuration
Includes choice of OTDR connector adapters – select in step 5 below.

**MT9083C2 Series (OTDR Ultra-high Performance Model)**

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Wavelength</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083C2-053</td>
<td>1310/1550 nm, SM</td>
<td>General-purpose model for construction, maintenance and fault location</td>
</tr>
<tr>
<td>MT9083C2-057</td>
<td>1310/1550/1625 nm, SM</td>
<td>General-purpose plus enhanced macrobend detection at 1625 nm</td>
</tr>
</tbody>
</table>

**MT9083B2 Series (OTDR High Performance Model)**

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Wavelength</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083B2-053</td>
<td>1310/1550 nm, SM</td>
<td>General-purpose model for construction, maintenance and fault location</td>
</tr>
<tr>
<td>MT9083B2-055</td>
<td>1310/1550 nm &amp; 1650 nm, SM</td>
<td>General-purpose models for construction, maintenance and fault location plus in-service measurement – integrated filter to block transmissions</td>
</tr>
<tr>
<td>MT9083B2-056</td>
<td>1310/1490/1550 nm, SM</td>
<td>General-purpose plus 1490 nm for FTTx/PON applications</td>
</tr>
<tr>
<td>MT9083B2-057</td>
<td>1310/1550/1625 nm, SM</td>
<td>General-purpose plus enhanced macrobend detection at 1625 nm</td>
</tr>
<tr>
<td>MT9083B2-058</td>
<td>1310/1490/1550/1625 nm, SM</td>
<td>Full spectrum characterization for CWDM applications</td>
</tr>
<tr>
<td>MT9083B2-063</td>
<td>850/1300 nm MM, 1310/1550 nm SM</td>
<td>Best unit for contractors or anyone who installs or maintains hybrid networks</td>
</tr>
</tbody>
</table>

**MT9083A2 Series (OTDR Base Model)**

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Wavelength</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083A2-073</td>
<td>1310/1550 nm, SM</td>
<td>General-purpose model for construction, maintenance and fault location</td>
</tr>
<tr>
<td>MT9083A2-055</td>
<td>1310/1550 nm &amp; 1650 nm, SM</td>
<td>General-purpose plus enhanced macrobend detection at 1625 nm</td>
</tr>
<tr>
<td>MT9083A2-057</td>
<td>1310/1550/1625 nm, SM</td>
<td>General-purpose model for construction, maintenance and fault location</td>
</tr>
<tr>
<td>MT9083A2-063</td>
<td>850/1300 nm MM, 1310/1550 nm SM</td>
<td>Best unit for contractors or anyone who installs or maintains hybrid networks</td>
</tr>
</tbody>
</table>

Note: Models noted feature user-selectable enhanced range (ER) for measuring PON systems/detecting faults in short time and high resolution (HR) for the shortest dead zone.

3) Select Factory Installed Options
Must be added as separate, chargeable line items.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083A2/B2/C2-010</td>
<td>Protector option (includes rubber bumpers, display cover and shoulder strap)</td>
</tr>
</tbody>
</table>
4) Select Loss Test Set Options

Optical Power Meter
Must be added as separate, chargeable line items.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083A2/B2/C2-004</td>
<td>SMF Optical Power Meter (UPC only)</td>
</tr>
<tr>
<td>MT9083A2/B2/C2-005</td>
<td>SMF High Power Optical Power Meter (UPC/APC)</td>
</tr>
<tr>
<td>MT9083A2/B2/C2-007</td>
<td>SMF/MMF Optical Power Meter (UPC/APC)</td>
</tr>
</tbody>
</table>

Visible Light Source

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083A2/B2/C2-002</td>
<td>Visible Laser Diode</td>
</tr>
</tbody>
</table>

5) Select Connector Types

The ACCESS Master MT9083 can be optioned to feature up to three optical ports – single mode OTDR, multimode OTDR and an Optical Power Meter (options -004, -005, and -007). Selecting a single connector code below will populate all optical ports with that connector type or customer can select different adapters by specifying the adapter for each of the three optical ports – see examples below.

Optical Connectors
One adapter type is provided for each port at no charge - must be added as separate line items.

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT9083A2/B2/C2-025</td>
<td>FC-APC Connector - single mode OTDR only (additional charge applies)</td>
<td>MT9083A2/B2/C2-038</td>
<td>ST Connector</td>
</tr>
<tr>
<td>MT9083A2/B2/C2-026</td>
<td>SC-APC Connector - single mode OTDR only (additional charge applies)</td>
<td>MT9083A2/B2/C2-039</td>
<td>DIN Connector</td>
</tr>
</tbody>
</table>

Note: UPC and APC connectors are not compatible – the internal optics are different and must be specified at time or order.

Examples:

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Specify UPC Connector</th>
<th>Specify APC Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MT9083B2</td>
<td>MT9083B2-053 with MT9083B2-004</td>
<td>MT9083C2 with MT9083C2-007</td>
</tr>
<tr>
<td>MT9083B2</td>
<td>MT9083B2-053 with MT9083B2-004</td>
<td>MT9083B2-063 with no options</td>
</tr>
<tr>
<td>MT9083B2-004</td>
<td>MT9083B2-063 with no options</td>
<td>MT9083C2 with MT9083C2-007</td>
</tr>
<tr>
<td>MT9083B2-004</td>
<td>MT9083B2-063 with no options</td>
<td>MT9083B2-063 with no options</td>
</tr>
<tr>
<td>MT9083B2-004</td>
<td>MT9083B2-063 with no options</td>
<td>MT9083B2-063 with no options</td>
</tr>
<tr>
<td>MT9083B2-004</td>
<td>MT9083B2-063 with no options</td>
<td>MT9083B2-063 with no options</td>
</tr>
</tbody>
</table>

*1: Applied to both the OTDR SM port and the OPM port.
*2: The APC connector is not applied to the OPM port. The UPC connector is applied to the OPM port, automatically.
*3: The APC connector is not applied to the MM port. The UPC connector is applied to the MM port, automatically.
6) Select Accessories & Replacement Items

<table>
<thead>
<tr>
<th>Model/Order No.</th>
<th>Description</th>
<th>Model/Order No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3634AE</td>
<td>MT9083 Operation Manual (Hard copy)</td>
<td>J1511</td>
<td>C7 Power Cord (for Korea)</td>
</tr>
<tr>
<td>W3637AE</td>
<td>MT9083 Quick User's Guide (Hard copy)</td>
<td>J1745</td>
<td>S3 Power Cord (for Oceania)</td>
</tr>
<tr>
<td>B0582A</td>
<td>Soft Carrying Case</td>
<td>Z1632A</td>
<td>Battery Charger</td>
</tr>
<tr>
<td>B0690A</td>
<td>Soft Bag</td>
<td>J1530A</td>
<td>SC Plug-in Converter (UPC(P)-APC(J))</td>
</tr>
<tr>
<td>B0583A</td>
<td>Hard Transit Case (for MT9083 - attache style)</td>
<td>J1531A</td>
<td>SC Plug-in Converter (APC(P)-UPC(J))</td>
</tr>
<tr>
<td>B0549</td>
<td>Hard Carry Case (for MT9083 with handle and wheels)</td>
<td>J1532A</td>
<td>FC Plug-in Converter (UPC(P)-APC(J))</td>
</tr>
<tr>
<td>Z0921A</td>
<td>Battery Pack (for MT9083)</td>
<td>J1533A</td>
<td>FC Plug-in Converter (APC(P)-UPC(J))</td>
</tr>
<tr>
<td>Z1625A</td>
<td>AC Adapter</td>
<td>J1534A</td>
<td>LC-SC Plug-in Converter (for SM, SC(P)-LC(J))</td>
</tr>
<tr>
<td>J0979</td>
<td>A-2 (Japan) Power Cord</td>
<td>J1535A</td>
<td>LC-SC Plug-in Converter (for MM, SC(P)-LC(J))</td>
</tr>
<tr>
<td>J0980</td>
<td>A-2 Power Cord (for USA, Canada, Taiwan)</td>
<td>J1295</td>
<td>Car Plug Cord</td>
</tr>
<tr>
<td>J0981</td>
<td>B4 Power Cord</td>
<td>J1480A</td>
<td>USB-Ethernet Converter</td>
</tr>
<tr>
<td>J0982</td>
<td>C7 Power Cord (for EU)</td>
<td>G0306B</td>
<td>Connector Video Inspection Probe Lite Option (× 400)</td>
</tr>
<tr>
<td>J0983</td>
<td>S3 Power Cord</td>
<td>NETWORKS</td>
<td>PC Emulation Software for Data Analysis and Reporting</td>
</tr>
</tbody>
</table>

Retrofit Options for existing units – unit must be returned to authorized service center

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FC</td>
<td>J0617B, J1603A (Phosphor bronze)</td>
<td>MA9005B</td>
<td>LP-FC</td>
</tr>
<tr>
<td>Angled FC (AFC)</td>
<td>J0739A</td>
<td>MA9005B</td>
<td>LP-FC</td>
</tr>
<tr>
<td>ST</td>
<td>J0618D</td>
<td>MA9005B-38</td>
<td>LP-ST</td>
</tr>
<tr>
<td>DIN</td>
<td>J0618E</td>
<td>MA9005B-39</td>
<td>LP-DIN</td>
</tr>
<tr>
<td>HMS-10A</td>
<td>J0618F</td>
<td>MA9005B-43</td>
<td>N/A</td>
</tr>
<tr>
<td>SC (UPC or APC)</td>
<td>J0619B, J1602A (Phosphor bronze)</td>
<td>MA9005B-40</td>
<td>LP-SC</td>
</tr>
</tbody>
</table>

*: OTDR port only

Soft Carrying Case (B0582A) B0690A Softbag Hard Carrying Case (B0583A)-Attache style Hard Carrying Case (B0549)

J1530A to J1535A Plug-in Converter (The photo shows the J1534A) Video Inspection Probe (× 400) (G0306B)
MT9090 Series

MU909014x/15x μOTDR Module
Compact OTDR for full automatic verification of optical networks, FTTH-PON, Metro and Core.

MU909060A GigE Module
Dedicated field test solution for installation and troubleshooting Ethernet links in the access network.

MU909020A OCA Module
Compact CWDM channel analyzer to verify power levels, drift and channel presence of CWDM networks.

MT1000A Network Master Pro

MU100010A 10G Multirate Module
MU100011A 100G Multirate Module
Installing the MU100010A or MU100011A in the MT1000A supports commissioning and maintenance tests of communications networks operating at speeds from 1.5 Mbps to 100 Gbps. In addition to Ethernet, OTN, etc., networks, the CPRI, OBSAI, and SyncE protocols used by mobile-network base stations are supported too.

MU100020A OTDR Module 1310/1550 nm SMF
MU100021A OTDR Module 1310/1550/850/1300 nm SMF/MMF
MU100022A OTDR Module 1310/1550/1625 nm SMF
Installing an OTDR Module MU100020A/MU100021A/MU100022A provides the OTDR functions required for optical fiber I&M. Work efficiency is increased by all-in-one support for optical fiber tests and data communications network commissioning.

Specifications are subject to change without notice.

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