

Anritsu envision : ensure

Optical & High-speed & Transport Testing Solutions



OPTICAL MEASURING INSTRUMENTS



**BIT ERROR RATE TESTERS (BERT)
OSCILLOSCOPES**



TRANSPORT AND ETHERNET TESTING

Network Master Pro



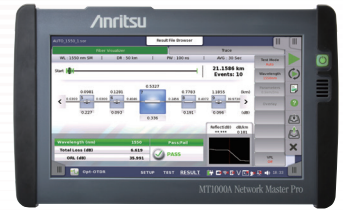
Mainframe MT1000A

OTDR Module MU100020A/MU100021A/MU100022A

1310 nm/1550 nm SMF, 1310/1550/850/1300 nm SMF/MMF, 1310/1550/1625 nm SMF

Mobile Network I&M

- All-in-one OTDR, light source, optical power meter (standard), visible light source (option)
- CPRI/OBSAI measurement with simultaneously installed 10G (MU100010A)/100G (MU100011A) Multirate Module
- Optical connector inspection with IEC 61300-3-35 pass/fail
- Graphical summary and pass/fail evaluation using Fiber Visualizer function
- Intuitive touch-screen operation



The OTDR module lineup includes the MU100021A for OTDR measurements of both SM and MM fibers in high demand by the mobile network I&M, plus the MU100020A/MU100022A for OTDR measurements of SM fiber used by PON networks and long-range measurements in Core/Metro networks.



<https://www.anritsu.com/test-measurement/products/mt1000a>

ACCESS Master™



MT9085 series 850 nm/1300 nm (MM), 1310/1490/1550/1625/1650 nm (SM)

All-in-One Solution for Optical Fiber Construction and Maintenance of Core, Metro and Access Networks

- 8-inch LCD with easy visibility even in direct sunlight
- Better work efficiency with synergy of LCD touchscreen, rotary knob, and dedicated hard keys
- Easy-to-Use Fiber Visualizer function for simple fiber path analysis

The MT9085 series is a compact handheld all-in-one tester for performing optical pulse tests, optical loss/power measurements, and optical fiber end-face inspections. It has a wide variety of applications, ranging from installation and maintenance (I&M) of trunk fibers (Core, Metro, Mobile Fronthaul, Mobile Backhaul) to troubleshooting Access networks, such as breaks in drop cables.



<https://www.anritsu.com/test-measurement/products/mt9085series>

Network Master™



Mainframe MT9090A

μOTDR Module™ MU909014/MU909015

1310/1490/1550 nm plus filtered 1650 nm or 1625 nm

Field Optical Testing Redefined

- High-performance OTDR in a pocket-size package with unique battery operation
- Tri-wavelength OTDR for both installation and maintenance
1310/1490/1550 nm plus filtered 1650 nm or 1625 nm
- Built-in PON power meter, loss test set and light source function
- "Fiber Visualizer" mode simplifies operation, no OTDR knowledge needed
- Bluetooth, WLAN and Ethernet connectivity



The MU909014/15 series for the MT9090A from Anritsu finally addresses this need by providing all of the features and performance required for installation and maintenance of optical fibers in a compact.

The MT9090A represents an unmatched level of value and ease of use, while not compromising performance. Data sampling of five centimeters, dead zones of less than 0.8-meter and dynamic range up to 38 dB ensure accurate and complete fiber evaluation of any network type – premise to access, metro to core...including PON-based FTx networks featuring up to a 1 × 64 split.



<https://www.anritsu.com/en-us/test-measurement/products/mu909014c-14c6-15c-15c6>



Optical Loss Tester/Light Source/Optical Power Meter

CMA5 series 850 nm/1300 nm (MM), 1310/1490/1550/1625 nm (SM)

For Optical Fiber Installation and Maintenance

- Built-in light source and power meter (Optical Loss Tester)
- Two wavelengths at one port (Light Source)
- Level measurement up to +23 dBm (Optical Power Meter)

The compact and durable design of the CMA5 series make these instruments the ideal combination of light source and optical power meter for measuring optical power when installing and servicing optical fiber cables.



<https://www.anritsu.com/test-measurement/products/cma5>

Video Inspection Probe

Autofocus Video Inspection Probe G0382A

Video Inspection Probe G0306 B

Optical Connector End Face Inspection

- Fully automated one-button operation (G0382A)
- Supported pass/fail analysis with the IEC61300-3-35 standard
- Wide range of adaptors available

The Video Inspection Probe (VIP) application for Anritsu field testing platforms gives operators a safe, easy way to analyze and document connector conditions.



<https://www.anritsu.com/test-measurement/optical/vip>



Optical Spectrum Analyzer

MS9740 B 600 nm to 1750 nm

Reduces Measurement Time and Improves Production Efficiency

- Wavelength sweeping time <0.35 s
- Dedicated applications for evaluating active optical devices
- Excellent cost performance
- Dynamic range performance ≤ 58 dB (0.4 nm from peak wavelength)
- 30 pm minimum resolution

The MS9740B reduce the measurement processing times by up to half compared to the earlier model while assuring high performance and complete test menus brings higher-efficiency inspection of active optical devices.



<https://www.anritsu.com/test-measurement/products/ms9740b>



Coherent OTDR

MW90010A

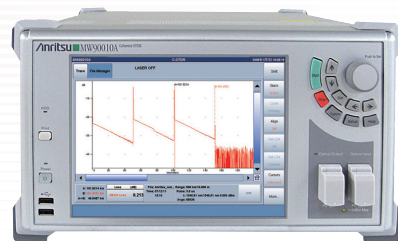
Measures Submarine Cables up to 12,000 km Long

- Fault detection with 10 m distance resolution
- Compact and lightweight all-in-one design for on-site portability
320 (W) × 177 (H) × 451 (D) mm, <17 kg
- Simple and easy touch-panel operation for easy first-time use by any operator
- Wide dynamic range supporting fault detection and troubleshooting of submarine cables with repeaters at 80 km or longer intervals

The MW90010A is a measuring instrument for detecting faults in ultra-long optical submarine cables of up to 12,000 km including multiple repeaters (EDFAs).



<https://www.anritsu.com/test-measurement/products/mw90010a>



Signal Quality Analyzer-R



MP1900A

Support 400 GbE and PCIe Gen4/5.

All-in-One Support for Evaluating Next-Generation NRZ/PAM4 Network Interfaces and High-Speed Serial Buses

- All-in-one support for both high-speed Ethernet and PCI Express interface tests
- Easily configured and easy-to-use all-in-one 64-GBaud PAM4 BER measurement system requiring no external equipment
- Receiver tests are supported by the built-in Protocol Awareness PCIe Link Training and LTSSM analysis functions
- High-reproducibility measurements due to high waveform quality and high input sensitivity
- Supports true signal integrity analysis, such as bit error rate measurements, Jitter Tolerance tests, etc.

The MP1900A is a high-performance BERT with excellent expandability for supporting Physical layer evaluations of these high-speed interfaces. The all-in-one design is ideal for early stage R&D evaluations of all interfaces covering ext-generation Ethernet networks to bus interconnects.



<https://www.anritsu.com/test-measurement/products/mp1900a>

BERTWave™



MP2110A

For 100 G/200 G/400 G Multi-channel Optical Module/Device R&D and Manufacturing

- BERT and sampling oscilloscope for up to 4ch installed one unit
- Supports analysis for both NRZ and PAM4 signals with high-spend, low-noise sampling oscilloscope, and built-in CRU

With a built-in BERT (for Bit Error Rate measurements) and a sampling oscilloscope (for Eye pattern analysis) the All-in-one MP2110A is optimized for manufacturing 100G/200G/400G optical modules. The MP2110A will improve optical module production efficiency and reduce manufacturing costs.



<https://www.anritsu.com/test-measurement/products/mp2110a>

BERTWave™

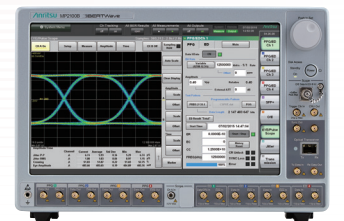


MP2100B

For 10G/40G Multi-channel Optical Module/Device R&D and Manufacturing

- All-in-one BER and Eye-pattern analysis
- Built-in 1ch to 4ch 12.5 Gbit/s BERT
- High-speed mask tests
- Jitter 1 ps high-quality PPG and 10 mVp-p high-sensitivity ED

The all-in-one MP2100B has a built-in BERT tester and sampling oscilloscope for running simultaneous BER tests and eye pattern analyses required for developing and manufacturing modules. The number of BERT channels can be expanded to four, all supporting simultaneous BER measurements. Additionally, the high sampling speed reduces the eye pattern measurement time. Multi-channel optical modules, such as QSFP+, can be measured more efficiently using the MP2100B.



<https://www.anritsu.com/test-measurement/products/mp2100b>



Network Master Pro



Mainframe MT1000A

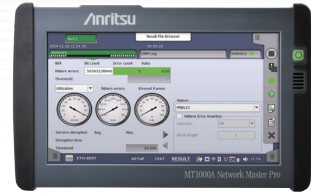
10G Multirate Module MU100010A

100G Multirate Module MU100011A

All-in-One Transport Tester for Metro and Backhaul Network Installation and Maintenance

- Supports testing from 1.5 Mbps to 100 Gbps
- Remote operation
- Remote control (scripting)
- Compact, lightweight design for maximum field portability

The modular design of the Network Master Pro MT1000A platform makes it easy to support I&M for different network configurations. Combining it with the MU100010A offers the necessary functions for I&M of networks at speeds from 1.5 Mbps to 10 Gbps. Combining with the MU100011A, it supports more interface standards than any other handheld transport tester on the market such as CFP4/QSFP28, QSFP+, SFP28 (25GbE), SFP+/SFP and RJ45.



<https://www.anritsu.com/test-measurement/products/mt1000a>

Network Master Pro



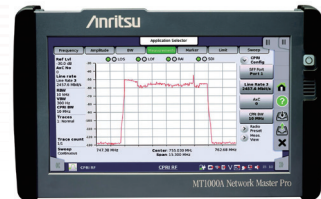
Mainframe MT1000A

CPRI RF Module MU100040B

The MU100040B CPRI RF module for the MT1000A provides added versatility to our new Front Haul testing platform

- Displays LTE spectrum of ALU/Nokia, Ericsson and Huawei CPRI radios
- Fast update rate to capture intermittent interferes
- Spectrum pan and zoom for detailed analysis of interferes/Spectrogram display captures and holds data for intermittent interferes
- 2 SFP slots for simultaneous uplink and downlink testing
- Modular design for use with MT1000A OTDR and 10G/100G transport test modules

The MU100040B for the MT1000A adds CPRI RF measurements to Anritsu's transport and fiber test platform. The modular design of the MT1000A means that it can be configured just for CPRI measurements or combined with the 10G/100G transport module and OTDR module to create the most comprehensive and versatile fiber and transport tester available.



<https://www.anritsu.com/test-measurement/products/mt1000a>

Network Master Flex



MT1100A 1.5 Mbps to 100 Gbps

All-in-One Transport Tester for 100G Core/Metro Network R&D and Manufacturing

- Supports testing from 1.5 Mbps to 100 Gbps
- Up to 4 ports at all rates
- Remote operation
- Remote control (scripting)
- Modular platform ensuring maximum return on investment

The all-in-one MT1100A supports all the latest communications network technologies. Selecting and installing up to two modules from a range of three module options supports all-in-one R&D and manufacturing tests of network and transport equipment operating at bit rates from 1.5 Mbps to 100 Gbps.



<https://www.anritsu.com/test-measurement/products/MT1100A>

Mainframe MT9090A Gigabit Ethernet Module MU909060 A1/A2/A3

Handheld Gigabit Ethernet Tester

- Lightweight and compact unit (approx. 800 g)
- Testing time reduced by the "Test Automator" creating a series of tests with pass/fail
- Automated ITU-T Y.1564 and RFC 2544 testing including bidirectional path analysis service
- Disruption time measurement ideal for testing VoIP and IPTV applications top talkers, network attacks and finding the route course of an issue by "Channel Stats"



The portable and easy-to-use MU909060A offers versatile measurement functions supports deployments and maintenances of Carrier Class Ethernet and LTE mobile backhaul networks.



<https://www.anritsu.com/test-measurement/products/MU909060A>

A large grid of small, evenly spaced dots covering most of the page, intended for writing notes.

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