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Data Sheet

August 13, 2026

ANRITSU

ANRITSU MP1590B Performance Tester with MU150100A AND OPTION 03

ANRITSU MP1590B Performance Tester with MU150100A AND OPTION 03, Combines comprehensive signal generation and analysis for evaluating performance of digital communications and protocol layers across multiple interfaces.



MODEL

**Anritsu
MP1590B/MU150100A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MP1590B/MU150100A

LISTING

<https://aumictechlabs.com/products/mp1590b-mu150100a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MP1590B Performance Tester with MU150100A and Option 03 is a modular signal generation and analysis platform for evaluating digital communications across optical and electrical interfaces from 1.5 Mbps to 10.7 Gbps. The system performs protocol-layer testing, jitter measurement, and multichannel analysis suitable for network equipment validation, telecommunications testing, and R&D environments. Technical Specifications MP1590B Mainframe 6-slot modular architecture Operating system: Windows XP Integrated display Dimensions: 320 (W) × 177 (H) × 350 (D) mm Weight: 13 kg maximum (excluding options and units) Remote control: Ethernet, RS-232C, GPIB MU150100A Multirate Unit Interface support: 1.5 Mbps to 10.7 Gbps, including 10/10.7G and 10.3G (10 GbE) Optical wavelength: 1260 to 1610 nm Clock output: 1.3 to 0.6 Vp-p Data output: 0 to -0.2 V (High), -0.85 to -1.5 V (Low) Data input: 1.5 to 0.3 Vp-p Side-mode

suppression ratio: ≥ 30 dB Optical overload rating: +3 dBm average Frequency accuracy: ± 0.1 ppm
Offset range: ± 100 ppm / 0.1 ppm step Electrical reference clocks: 1.544 MHz, 2.048 MHz, 5 MHz,
10 MHz, 64 kHz + 8 kHz Electrical data rates: D1–D3 at 192 kbit/s, D4–D12 at 576 kbit/s, GCC0–2
at 13124 kbit/s and 326.7 kbit/s Option 03 High-Accuracy Jitter Measurement Jitter measurement
accuracy: ± 20 mUlp-p (ITU-T O.172 Appendix VIII calibrated) Jitter measurement repeatability: ± 5
mUlp-p Supported rates: SDH/SONET 52 Mbit/s to 10.7 Gbit/s, OTU-1 (2.66 Gbit/s), OTU-2 (10.71
Gbit/s), 10.3 Gbit/s 10G Ethernet Jitter tolerance and transfer measurement per ITU-T Rec. G.783,
G.825 Key Features Multichannel simultaneous measurement capability Dual optical and electrical
interface support High-precision jitter generation and tolerance testing Modular expansion via six-
slot architecture Sub-microsecond timing accuracy at ± 0.1 ppm Typical Applications SDH/SONET
equipment performance validation OTU and 10G Ethernet interface testing Jitter tolerance
compliance measurement Protocol-layer network diagnostics Telecommunications and data
network R&D Compatibility & Integration Integrates optical signals (1260–1610 nm) and electrical
reference clocks (1.544–10 MHz) for layered network testing. Remote operation via Ethernet, RS-
232C, and GPIB interfaces.

Features & description

From manufacturer datasheet

Features

• Six-slot modular mainframe with integrated display • Simultaneous multichannel SDH/SONET path measurements • Jitter generation, tolerance, transfer, and output jitter (with jitter units) • EoS and Ethernet/IP plug-in ecosystem shared with MD1230B family • Reference clock I/O including BITS and multiple MHz references • Remote control via LAN software, GPIB, RS-232C, and Ethernet options • MU150100A class 10/10.7G unit for STM-0/OC-1 through STM-64/OC-192 and OTU2 • Windows XP Professional embedded OS on mainframe

Applications

• SDH/SONET network and equipment conformance testing • OTN OTU1/OTU2 performance and FEC evaluation • PDH/DSn and jitter tolerance/transfer/generation tests • EoS GFP/VCAT/LCAS and differential delay measurements • Ethernet/IP QoS and 10GbE physical-layer analysis (with Ethernet plug-ins) • R&D, manufacturing, and installation/maintenance of NGN transport gear

MP1590BMU150100A Characteristics / Specifications

PARAMETER	VALUE
Model	MP1590B
Manufacturer	Anritsu
Instrument Type	Network Performance Tester mainframe
Alias	MP1590B; Anritsu MP1590B Network Performance Tester
Companion unit	MU150100A 10/10.7G Unit (typical Slot 1 multirate)
Number of slots	6
Display	8.4 inch color TFT SVGA 800 × 600
Operating system	Windows XP Professional
Storage	HDD
SDH SONET coverage class	STM-0/OC-1 to STM-64/OC-192
OTN coverage class	OTU1 and OTU2 (Option 005 class)
OTN extended rates	OTU1e and OTU2e (Option 006 class on multirate)
Ethernet class	10/100/1000M, Gigabit, and 10 Gigabit with Ethernet units
Multichannel max VC11 VT1.	up to 5376 channels
Multichannel max VC12 VT	up to 4032 channels
Bit rate class with MU150100A family	about 52 Mbit/s to 10.7 Gbit/s
Reference clock input frequencies	1.544 MHz, 2.048 MHz, 5 MHz, 10 MHz, 64 kHz plus 8 kHz
Reference data input	1.544 Mbit/s BITS and 2.048 Mbit/s
Reference clock input range	±50 ppm
Reference clock output frequencies	1.544 MHz, 2.048 MHz, 5 MHz, 10 MHz
Reference data output codes	B8ZS (1.544 Mbit/s) and HDB3 (2.048 Mbit/s)
Remote interfaces	RS-232C, GPIB, Ethernet RJ-45, USB 1.1 ×2, PS/2 keyboard, VGA
LAN remote software	MX159001B via 10BASE-T/100BASE-TX
AC power	100 to 120 Vac / 200 to 240 Vac autoswitching, 50 to 60 Hz
Dimensions	320 mmWx 177 mmHx 350 mmDMass: 13 kg max excluding options and units

PARAMETER	VALUE
EMC	EN61326-1, EN61000-3-2
LVD	EN61010-1
Jitter generation accuracy Option 30 class at 9953.28 Mbit/s	±20 mUIp-p
Jitter measurement reproducibility Option 30 class	±5 mUIp-p
Successor platforms	MT1000A / MT1100A class (product discontinued) Notes Specs from Anritsu MP1590B Network Performance Tester brochure/datasheet and MU150100A/MU150110A multirate documentation. Exact rates, optical wavelengths, and jitter limits depend on installed plug-in units and options; confirm configuration on the unit.

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 Tester

Overview

The Anritsu MP1590B is a modular Network Performance Tester for SDH/SONET, OTN, PDH/DSn, jitter, EoS, and Ethernet/IP evaluation in one mainframe. Plug-in units such as the MU150100A 10/10.7G multirate unit enable physical- to application-layer measurements from about 1.5 Mbit/s into the 10G/10.7G class, with optional 11.1G and 10GbE extensions on successor multirate modules.

Applications

- SDH/SONET network and equipment conformance testing
- OTN OTU1/OTU2 performance and FEC evaluation
- PDH/DSn and jitter tolerance/transfer/generation tests
- EoS GFP/VCAT/LCAS and differential delay measurements
- Ethernet/IP QoS and 10GbE physical-layer analysis (with Ethernet plug-ins)
- R&D, manufacturing, and installation/maintenance of NGN transport gear

Key Features

- Six-slot modular mainframe with integrated display
- Simultaneous multichannel SDH/SONET path measurements
- Jitter generation, tolerance, transfer, and output jitter (with jitter units)
- EoS and Ethernet/IP plug-in ecosystem shared with MD1230B family
- Reference clock I/O including BITS and multiple MHz references
- Remote control via LAN software, GPIB, RS-232C, and Ethernet options
- MU150100A class 10/10.7G unit for STM-0/OC-1 through STM-64/OC-192 and OTU2
- Windows XP Professional embedded OS on mainframe

Technical Specifications

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Number of slots	6
Display	8.4 inch color TFT SVGA 800 x 600
Operating system	Windows XP Professional
Storage	HDD
SDH SONET coverage class	STM-0/OC-1 to STM-64/OC-192
OTN coverage class	OTU1 and OTU2 (Option 005 class)
OTN extended rates	OTU1e and OTU2e (Option 006 class on multirate)
Ethernet class	10/100/1000M, Gigabit, and 10 Gigabit with Ethernet units
Multichannel max VC11 VT1.5	up to 5376 channels

PARAMETER	VALUE
Multichannel max VC12 VT2	up to 4032 channels
Bit rate class with MU150100A family	about 52 Mbit/s to 10.7 Gbit/s
Reference clock input frequencies	1.544 MHz, 2.048 MHz, 5 MHz, 10 MHz, 64 kHz plus 8 kHz
Reference data input	1.544 Mbit/s BITS and 2.048 Mbit/s
Reference clock input range	±50 ppm
Reference clock output frequencies	1.544 MHz, 2.048 MHz, 5 MHz, 10 MHz
Reference data output codes	B8ZS (1.544 Mbit/s) and HDB3 (2.048 Mbit/s)
Remote interfaces	RS-232C, GPIB, Ethernet RJ-45, USB 1.1 x2, PS/2 keyboard, VGA
LAN remote software	MX159001B via 10BASE-T/100BASE-TX
AC power	100 to 120 Vac / 200 to 240 Vac autoswitching, 50 to 60 Hz
Dimensions	320 mm W x 177 mm H x 350 mm D
Mass	13 kg max excluding options and units
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Jitter generation accuracy Option 30 class at 9953.28 Mbit/s: ±20 mUIp-p

Jitter measurement reproducibility Option 30 class: ±5 mUIp-p

Successor platforms: MT1000A / MT1100A class (product discontinued)

Notes

Specs from Anritsu MP1590B Network Performance Tester brochure/datasheet and MU150100A/MU150110A multirate documentation. Exact rates, optical wavelengths, and jitter limits depend on installed plug-in units and options; confirm configuration on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 006	class on multirate)

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.