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Data Sheet

August 13, 2026

ANRITSU

Anritsu MP1656A Portable STM-16 Analyze w 01,21

Anritsu MP1656A Portable STM-16 Analyzer 2488.32 Mb/s The Anritsu MP1656A is a portable STM-16 (2488.32 Mb/s) analyzer designed for use with MP1550A/B or MP1570A SONET/SDH/PDH analyzers to extend analysis of section, H-path (AU), L-path (TU), and PDH layers at STM-16. It can also operate standalone for regenerator-section tests with G.826 performance monitoring, J0 section trace, OH monitoring, and optional 1310/1550 nm optical interfaces with high-sensitivity optical input. The Anritsu MP1656A is a portable STM-16 (2488.32 Mb/s) analyzer designed for use with MP1550A/B or MP1570A SONET/SDH/PDH analyzers to extend analysis of section, H-path (AU), L-path (TU), and PDH layers at STM-16. It can also operate standalone for regenerator-section tests with G.826 performance monitoring, J0 section trace, OH monitoring, and optional 1310/1550 nm optical interfaces with high-sensitivity optical input.



MODEL

Anritsu MP1656A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MP1656A

LISTING

<https://aumictechlabs.com/products/mp1656a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MP1656A is a portable STM-16 analyzer operating at 2488.32 Mb/s, designed for transport layer testing and performance verification in telecommunications networks. It functions

as a standalone regenerator section test instrument or integrates with the MP1550A/B and MP1570A analyzers to enable section, H-path (AU), and L-path (TU) analysis. The unit delivers G.826 error performance monitoring on repeater sections, J0 section trace evaluation with CRC-7 processing, and overhead byte monitoring. Its compact form factor - 320 mm W × 88 mm H × 215 mm D, weighing 6.5 kg - suits field deployment and lab environments alike.

Technical Specifications
Data Rate: STM-16 (2488.32 Mb/s)
Optical Input: High-sensitivity receiver at -29 dBm; FC/SPC connector
Optical Output: DFB-LD source; 1.31 μm and 1.55 μm options available
Performance Monitoring: G.826 error metrics on B1 byte (repeater section) with simultaneous parameter confirmation
Section Trace: J0 byte monitoring (64 or 16 byte modes) with CRC-7 evaluation
Interfaces: GPIB, RS-232C, floppy disk drive, buzzer, real-time clock
Display: Pop-up menus with zoom-in function for expanded result viewing
Power Supply: 85–132 Vac or 170–250 Vac, 47.5–63 Hz, ≤300 VA
Operating Temperature: 0 °C to 40 °C
Storage Temperature: -20 °C to 60 °C
Laser Safety: Complies with 21 CFR 1040.10 (USA)
EMC & Safety: EN55011 (Group 1, Class A), EN50082-1, EN61010-1 (Installation Category II, Pollution Degree II)

Key Features
Standalone regenerator section testing without external analyzers
Add/Drop mode operation when paired with MP1550A/B or MP1570A
Internal mode for independent measurements
J0 section trace with dual byte-length formatting
OH byte monitoring across SOH and any 1-byte positions
Text-format data storage via built-in floppy disk drive
User interface architecture matches MP1550A/B for operational familiarity

Typical Applications
STM-16 regenerator section characterization
PDH/SDH transport network verification
Performance trending and compliance monitoring per G.826 standards
Field troubleshooting of optical section degradation

Compatibility & Integration
The MP1656A pairs with Anritsu's MP1550A/B and MP1570A PDH/SDH/SONET/ATM analyzers for hierarchical layer testing. Optional configurations include fixed 1.55 μm output (Option 01), switchable 1.31/1.55 μm output (Option 02), fixed 1.31 μm output (Option 03), and WDM receiver capability (Option 21).

Features & description

From manufacturer datasheet

Features

• Bit rate 2488.32 Mb/s STM-16 • Add/drop mode with MP1570A • G.826 performance monitor including B1 • Section trace J0 with CRC-7 • DFB-LD 1.31 and/or 1.55 um optical output options • High sensitivity optical input about -29 dBm • Built in floppy drive • Controls similar to MP1570A

Applications

• STM-16 add-on analysis with MP1550A/B or MP1570A • Standalone regenerator section BER and alarm tests • G.826 error performance monitoring of repeater sections • Optical 1310/1550 nm interface verification • Field portable SDH maintenance and commissioning

MP1656A Characteristics / Specifications

PARAMETER	VALUE
Model	MP1656A
Manufacturer	Anritsu
Instrument Type	Portable STM-16 Analyzer
Alias	MP1656A; Anritsu MP1656A
Bit rate	2488.32 Mb/s
Line rate class	STM-16 / OC-48
Optical Option	1310/1550 nm switchable optical output
Optical input sensitivity class	about -29 dBm
Error types monitored	B1, B2, B3, BIP-2, HP-FEBE, LP-FEBE, bit
Alarm types monitored	LOS, LOF, OOF, MS-AIS, MS-FERF, AU-AIS, AU-LOP, HP-FERF, TU-AIS, TU-LOP, HP-LOM, LP-FERF, sync loss
Performance G.826 parameters	ES, SES, ESR, SESR, BBER, US, BBE, SDP
Section trace J0 length	64 or 16 bytes with CRC-7
Pointer sequence modes	G.783 class opposite polarity and regular sequences
Trouble search	scans all channels in STM-1 for errors/alarms
Measurement modes	single, repeat, manual
OH monitor bytes	K1/K2, AU pointer, RSOH, MSOH, any one byte
Floppy disk drive	built in
Form factor	portable STM-16 analyzer
Related mainframe MP15	MP1570A SONET/SDH/PDH/ATM Analyzer
Related NRZ unit	MP0108A for MP1550A/B
Related CMI unit	MP0105A for MP1550A/B
Joint plate accessory	B0408A holds MP1656A with MP1550A/B
Carrying case small	B0396A
Primary use	STM-16 section/path analysis portable

PARAMETER	VALUE
Mass class	about 15 lb typical listing class Notes Specs from Anritsu MP1656A Portable STM-16 Analyzer catalog and reseller descriptions (2488.32 Mb/s; Opt 01/02/03/21; G.826; J0). Confirm optical wavelength option and host mainframe pairing 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 monitoring, J0 section trace, OH monitoring, and optional 1310/1550 nm optical interfaces with high-sensitivity optical input.

Applications

- STM-16 add-on analysis with MP1550A/B or MP1570A
- Standalone regenerator section BER and alarm tests
- G.826 error performance monitoring of repeater sections
- Optical 1310/1550 nm interface verification
- Field portable SDH maintenance and commissioning

Key Features

- Bit rate 2488.32 Mb/s STM-16
- Add/drop mode with MP1570A
- G.826 performance monitor including B1
- Section trace J0 with CRC-7
- DFB-LD 1.31 and/or 1.55 um optical output options
- High sensitivity optical input about -29 dBm
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Technical Specifications

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Model	MP1656A
Manufacturer	Anritsu
Instrument Type	Portable STM-16 Analyzer
Alias	MP1656A; Anritsu MP1656A
Bit rate	2488.32 Mb/s
Line rate class	STM-16 / OC-48
Optical Option 01	1550 nm optical output
Optical Option 02	1310/1550 nm switchable optical output
Optical Option 03	1310 nm optical output
Optical Option 21	high performance WDM optical receiver
Optical input sensitivity class	about -29 dBm
Error types monitored	B1, B2, B3, BIP-2, HP-FEBE, LP-FEBE, bit
Alarm types monitored	LOS, LOF, OOF, MS-AIS, MS-FERF, AU-AIS, AU-LOP, HP-FERF, TU-AIS, TU-LOP, HP-LOM, LP-FERF, sync loss
Performance G.826 parameters	ES, SES, ESR, SESR, BBER, US, BBE, SDP

Section trace J0 length: 64 or 16 bytes with CRC-7

Specifications

PARAMETER	VALUE
Pointer sequence modes	G.783 class opposite polarity and regular sequences
Trouble search	scans all channels in STM-1 for errors/alarms
Measurement modes	single, repeat, manual
OH monitor bytes	K1/K2, AU pointer, RSOH, MSOH, any one byte
Floppy disk drive	built in
Form factor	portable STM-16 analyzer
Related mainframe MP1550	MP1550A/B PDH/SDH Analyzer
Related mainframe MP1570	MP1570A SONET/SDH/PDH/ATM Analyzer
Related NRZ unit	MP0108A for MP1550A/B
Related CMI unit	MP0105A for MP1550A/B
Joint plate accessory	B0408A holds MP1656A with MP1550A/B
Carrying case small	B0396A
Primary use	STM-16 section/path analysis portable
Mass class	about 15 lb typical listing class

Notes

Specs from Anritsu MP1656A Portable STM-16 Analyzer catalog and reseller descriptions (2488.32 Mb/s; Opt 01/02/03/21; G.826; J0). Confirm optical wavelength option and host mainframe pairing on the unit.

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.