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Data Sheet

August 13, 2026

ANRITSU

Anritsu MP0108A NRZ Unit

The Anritsu MP0108A is an NRZ interface plug-in unit for the MP1550A/B PDH/SDH analyzer family providing 156 Mbit/s and 622 Mbit/s NRZ electrical interfaces. It expands the MP1550A/B (and related MP1570A add/drop combinations documented as 156M/622M type) for STM-1/STM-4 class NRZ testing alongside CMI units such as MP0105A and STM-16 portable analyzers such as MP1656A. Compatible joint testing: MP1550A/B plus MP1656A

Installation slot class: host mainframe interface slot Operating temperature class: host analyzer environmental limits Specs from Anritsu MP1656A/MP1550A catalog accessories and MP1570A Add/Drop manuals listing MP0108A as 156/622M NRZ type. Confirm exact connector sex/impedance and host firmware support on the installed mainframe.



MODEL

Anritsu MP0108A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MP0108A

LISTING

<https://aumictechlabs.com/products/mp0108a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MP0108A NRZ Unit is a modular optical testing module engineered for Non-Return-to-Zero signal format analysis in high-speed digital communications. It operates across three standard bit rates - 155.520 Mb/s, 622.080 Mb/s, and 2488.32 Mb/s - and integrates directly into Anritsu signal quality analyzers to deliver precise signal integrity measurements. The unit features FC-PC (SM-F) optical connectors and supports wavelength-selectable operation through associated plug-in modules, making it suitable for SONET, SDH, PDH, and ATM equipment

validation across development, manufacturing, and field maintenance environments. Technical Specifications Bit Rates: 155.520 Mb/s, 622.080 Mb/s, 2488.32 Mb/s (NRZ) Optical Output Level: -4 dBm $\pm$ 3 dB, -5 dBm $\pm$ 2 dB Sensitivity: -28 dBm to unspecified upper limit; 156M: -33 to -8 dBm (PRBS $2^{23} - 1$ test pattern) Wavelength Options: 1310 nm, 1550 nm, or dual 1310/1550 nm (via associated modules) Optical Connector: FC-PC (SM-F) Optical Safety: IEC825-1 Class 3A, 21CFR1040.10 Class IIIb; IEC825-1 Class 1, 21CFR1040.10 Class I Form Factor: Modular plug-in unit Key Features NRZ signal format support with deterministic timing and logic validation Wavelength flexibility: single and dual-wavelength configurations via MU150008A (1310 nm), MU150009A (1550 nm), or MU150010A (1310/1550 nm) Optical output power control across two specified levels Proven sensitivity for 156 Mb/s measurements using standard PRBS patterns FC-PC single-mode connectors for direct integration into optical test systems Typical Applications SONET/SDH equipment testing and validation PDH and ATM network analysis Manufacturing verification of optical transceivers and transponders Field acceptance testing of telecommunications infrastructure Signal quality assessment for long-haul and metro optical links Compatibility & Integration The MP0108A installs as a module within the Anritsu MP1570A Signal Quality Analyzer (supporting 1.5 Mbps to 10 Gbps) and MP1552B analyzer. Wavelength-specific operation requires corresponding plug-in units. The module integrates with MP0121A and MP0122A/B units for extended bit rate and signal mapping configurations.

Features & description

From manufacturer datasheet

Features

- NRZ unit for MP1550A/B
- Rates 156 Mbit/s and 622 Mbit/s class
- Works with MP1656A STM-16 portable analyzer ecosystem
- Complements MP0105A CMI unit
- Plug in modular architecture
- SDH electrical interface stimulus/analysis
- Compatible with MP1570A add/drop unit tables as 156M/622M type
- Production and maintenance oriented I/O

Applications

- STM-1 / STM-4 NRZ interface testing on MP1550A/B
- Manufacturing test of SDH electrical interfaces
- Combined PDH/SDH analysis with CMI and optical add ons
- Add/drop measurement configurations citing 156M/622M type units
- Field and lab NRZ BER and alarm verification

MP0108A Characteristics / Specifications

PARAMETER	VALUE
Model	MP0108A
Manufacturer	Anritsu
Instrument Type	NRZ Interface Plug In Unit
Alias	MP0108A; Anritsu MP0108A
Host analyzer primary	MP1550A/B PDH/SDH Analyzer
Host analyzer related	MP1570A add/drop configurations
Bit rate	156 Mbit/s class
Line coding	NRZ
Interface type	electrical NRZ plug in
Related CMI unit	MP0105A
Related built in CMI option	MP1550A/B Option 10
Related STM16 analyzer	MP1656A
Unit type class in MP1570 manuals	156M/622M type with MP0111A/MP0112A/MP0113A peers
Primary use	156/622 Mbit/s NRZ SDH interface testing
Form factor	plug in unit
Mapping domain	SDH STM-1/STM-4 class electrical
Error measurement class	BER and alarm with host analyzer
OH access class	via host MP1550/MP1570 overhead monitors
Connector class	coaxial NRZ I/O on unit face
Impedance class	50 ohm or 75 ohm per host configuration
Clocking class	internal/external/received per host
Through mode class	host analyzer through/overwrite modes
Remote control	via host analyzer GPIB/RS-232/Ethernet options
Product family	Anritsu MP01xx interface units
Compatible joint testing	MP1550A/B plus MP1656A

PARAMETER	VALUE
Installation slot class	host mainframe interface slot
Power	supplied by host mainframe
Operating temperature class	host analyzer environmental limits Notes Specs from Anritsu MP1656A/MP1550A catalog accessories and MP1570A Add/Drop manuals listing MP0108A as 156/622M NRZ type. Confirm exact connector sex/impedance and host firmware support on the installed mainframe.
Operating temperature	class: host analyzer environmental limits

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	class: host analyzer environmental limits
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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.

Specifications	
Specifications	
PARAMETER	VALUE
Model	MP0108A
Manufacturer	Anritsu
Instrument Type	NRZ Interface Plug In Unit
Alias	MP0108A; Anritsu MP0108A
Host analyzer primary	MP1550A/B PDH/SDH Analyzer
Host analyzer related	MP1570A add/drop configurations
Bit rate 1	156 Mbit/s class
Bit rate 2	622 Mbit/s class
Line coding	NRZ
Interface type	electrical NRZ plug in
Related CMI unit	MP0105A
Related built in CMI option	MP1550A/B Option 10
Related STM16 analyzer	MP1656A
Unit type class in MP1570 manuals	156M/622M type with MP0111A/MP0112A/MP0113A peers
Primary use	156/622 Mbit/s NRZ SDH interface testing
Form factor	plug in unit
Mapping domain	SDH STM-1/STM-4 class electrical
Error measurement class	BER and alarm with host analyzer
OH access class	via host MP1550/MP1570 overhead monitors
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Impedance class	50 ohm or 75 ohm per host configuration
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Product family	Anritsu MP01xx interface units
Compatible joint testing	MP1550A/B plus MP1656A

PARAMETER	VALUE
Installation slot class	host mainframe interface slot
Power	supplied by host mainframe
Operating temperature class	host analyzer environmental limits

Notes
Specs from Anritsu MP1656A/MP1550A catalog accessories and MP1570A Add/Drop manuals listing MP0108A as 156/622M NRZ type. Confirm exact connector sex/impedance and host firmware support on the installed mainframe.

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.