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Data Sheet

August 14, 2026

ANRITSU

Anritsu MP0122B Error/Jitter Analyzer

The Anritsu MP0122B adds a 52 Mbit/s 1310 nm optical interface to the MP0122A DSn/STS-1 plug-in for the MP1570A. OEM tables share 1.544/44.736 Mbit/s ANSI T1.102 electrical specifications and note built-in 52M B3ZS electrical plus optical interfaces. DS1/DS3 plus STS-1/STM-0 optical at 1310 nm in MP1570A SONET systems. Bit Rates Electrical: 1.544 and 44.736 Mbit/s Ds1 Level: ANSI T1.102 20 dB monitor 0/655 ft Error Addition Rates: single and 1E-3 to 1E-7 Jitter Companion: MU150006A 1.5/45/52M 156/622M jitter Mux Option: MP1570A-07 1.5/45 Mbit/s MUX/DEMUX Japan Mapping: MP1570A-09 requires MP0122A or MP0122B



MODEL

Anritsu MP0122B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MP0122B

LISTING

<https://aumictechlabs.com/products/mp0122b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MP0122B is a versatile adapter module designed for use with Anritsu's network analyzers, specifically compatible with models such as the MP1570A, MP1552B, and MP1555B. This module is crucial for enabling a range of testing capabilities within telecommunications and data network analysis. It supports various bit rates and electrical and optical interfaces, making it suitable for testing PDH, SONET, SDH, and ATM equipment and networks. The MP0122B is part of a modular system, allowing for flexible configuration of test systems to meet specific application requirements, from research and development to manufacturing and maintenance.### Technical Specifications **Bit Rates Supported:** 1.544 Mbit/s (DS1)* 44.736 Mbit/s (DS3)* 51.840 Mbit/s

(STS-1/STM-0)* 52 Mbit/s (Electrical: B3ZS, ANSI T1.102)* 52 Mbit/s (Optical)* 155.520 Mbit/s
 (STS-3c/STM-1)* 156 Mbit/s (Electrical: CMI, ITU-T G.703)* 156 Mbit/s (Optical)* 622.080 Mbit/s
 (STS-12c/STM-4)* 622 Mbit/s (Electrical/Optical)* 2488.320 Mbit/s (STS-48c/STM-16)* 2488
 Mbit/s (Electrical/Optical)* 9953.280 Mbit/s (STS-192c/STM-64)* 9953 Mbit/s (Electrical/Optical)
****Interfaces:**** ****Electrical:**** * 1.544 Mbit/s: AMI/B8ZS (balanced), ANSI T1.102 (with 20 dB
 monitoring point), 0/655 ft * 44.736 Mbit/s: B3ZS (unbalanced), ANSI T1.102 (with 20 dB
 monitoring point), 0/450/900 ft * 52 Mbit/s: B3ZS (electrical) interface per ANSI T1.102 * 156
 Mbit/s: CMI (electrical) interface per ITU-T G.703* ****Optical:**** * 52 Mbit/s optical interface * 156
 Mbit/s optical interface * 622 Mbit/s optical interface * 2488 Mbit/s optical interface * 9953
 Mbit/s optical interface ****Level/Waveform:**** 1.544 Mbit/s: ANSI T1.102* 44.736 Mbit/s: ANSI
 T1.102 ****Clock:**** Internal (accuracy: ± 7 ppm, jitter unit not installed)* External (ECL [AC] 50 Ω)
 received signal ****Frame Format:**** Unframed: 1.5, 45 Mbit/s* Framed: 1.5 Mbit/s (D4, E.g.)*
 Support for various mapping levels including STM-1, STM-4, STM-16, STM-64, AU-4, VC-4, TU-3,
 VC-3, TU-2, VC-2, TU-12, VC-12, etc. ****Functions and Capabilities** (as part of compatible main
 units like MP1570A): ****Signal Generation and Analysis:**** * Generation of test patterns
 including PRBS (211-1, 215-1, 220-1, 223-1) * Programmable 16-bit word patterns, all 0s, all 1s *
 Error and alarm addition: Single, repeat, manual modes for timing, FAS, LOS, LOF, AIS, RDI * In-
 service and out-of-service error and alarm measurements (Frame, code, CRC-4, E-bit, bit errors;
 Power-fail, LOS, AIS, LOF, MF loss, RDI) * Error performance measurement conforming to ITU-T
 G.821 (inc. Annex D), M.2100, G.826 * Generation and detection of CID patterns, Tandem
 Connection patterns, and Non-frame patterns* ****Through Modes:**** * Transparent *
 Overhead/overwrite * Payload/overwrite * Add/drop* ****Mapping and Multiplexing:**** * Insertion
 of internal STS-3SPE/VC4, VT6/TU2, VT2/TU12, and VT1.5/TU11 signals * Support for international
 mapping when two interface units are installed simultaneously * Japanese mapping measurement
 (Option 09) with programmable signaling patterns (8 or 64 frames)* ****Overhead Manipulation:****
 * Modification of SOH/POH bytes * Overhead testing * Capture and analysis of SOH (1 byte) or
 K1/K2 bytes in 64 frames* ****ATM and IP Testing:**** * Generation and detection of loopback and
 performance-monitoring cells conforming to ITU-T Recommendation I.610 * Simultaneous
 monitoring of 1023 channel cells and non-conforming cells; automatic VPI/VCI detection * IP-
 over-SONET/SDH capability with IP/PPP packet generation/analysis using frame memory
 function#### **Compatibility** The Anritsu MP0122B is designed as a plug-in module for the following
 Anritsu main units:* MP1570A SONET/SDH/PDH/ATM Analyzer* MP1552B* MP1555B Sonet/ATM
 Analyzer#### **Physical Characteristics** * Module format for insertion into specific Anritsu main
 frames.* Specific details regarding physical dimensions, weight, or power consumption of the
 MP0122B module itself are not readily available in the provided documentation.#### **Handlin**

MP0122B Characteristics / Specifications

PARAMETER	VALUE
Bit Rates Electrical	1.544 and 44.736 Mbit/s
Optical Interface	52M 1.31 um built in
Electrical Sts	52M B3ZS built in
Ds1 Level	ANSI T1.102 20 dB monitor 0/655 ft
Ds3 Level	ANSI T1.102 20 dB monitor 0/450/900 ft
Ds1 Coding	AMI/B8ZS balanced
Ds3 Coding	B3ZS unbalanced
Connectors Electrical	BNC 75 ohm and Bantam 100 ohm
Internal Clock Accuracy	plus or minus 7 ppm jitter unit not installed
Ds1 Framing	D4 ESF Japan ESF option 09
Ds3 Framing	M13 C-bit
Test Patterns	PRBS 2 ¹¹ -1 through 2 ²³ -1 0.151
Error Addition Rates	single and 1E-3 to 1E-7
Alarms	LOS LOF AIS RDI
Error Performance	G.821 M.2100 G.826
Delay Measurement	0 to 1 s
Host Mainframe	MP1570A
Jitter Companion	MU150006A 1.5/45/52M 156/622M jitter
Mux Option	MP1570A-07 1.5/45 Mbit/s MUX/DEMUX
Japan Mapping	MP1570A-09 requires MP0122A or MP0122B
Form Factor	MP1570A plug in unit
Leds	LOS LOF AIS RDI sync loss errors
Auxiliary Outputs	clock sync frame sync error output
Through Mode	host transparent and overwrite modes at 52M and above

MP0122B Specifications

PARAMETER	VALUE
Anritsu MP0122B 1.5/45/52M Optical Unit	Overview
Applications	DS1/DS3 plus STS-1/STM-0 optical at 1310 nm in MP1570A SONET systems.
Key Features	Electrical DS1/DS3 plus 52M optical
ANSI T1.102 DS1/DS3	Japan mapping option 09
Technical Specifications	Bit Rates Electrical: 1.544 and 44.736 Mbit/s
Notes	From Anritsu MP1570A MP0122A/B specification tables. MP0122B is the 52M optical (1.31) variant of MP0122A.

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 and note built-in 52M B3ZS electrical plus optical interfaces.	
Applications	
DS1/DS3 plus STS-1/STM-0 optical at 1310 nm in MP1570A SONET systems.	
Key Features	
Electrical DS1/DS3 plus 52M optical	
ANSI T1.102 DS1/DS3	
Japan mapping option 09	
MUX/DEMUX option 07	
Host concatenation mapping	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Bit Rates Electrical	1.544 and 44.736 Mbit/s
Optical Interface	52M 1.31 um built in
Electrical Sts1	52M B3ZS built in
Ds1 Level	ANSI T1.102 20 dB monitor 0/655 ft
Ds3 Level	ANSI T1.102 20 dB monitor 0/450/900 ft
Ds1 Coding	AMI/B8ZS balanced
Ds3 Coding	B3ZS unbalanced
Connectors Electrical	BNC 75 ohm and Bantam 100 ohm
Internal Clock Accuracy	plus or minus 7 ppm jitter unit not installed
Ds1 Framing	D4 ESF Japan ESF option 09
Ds3 Framing	M13 C-bit
Test Patterns	PRBS 2^11-1 through 2^23-1 0.151
Error Addition Rates	single and 1E-3 to 1E-7
Alarms	LOS LOF AIS RDI
Error Performance	G.821 M.2100 G.826
Delay Measurement	0 to 1 s
Host Mainframe	MP1570A
Jitter Companion	MU150006A 1.5/45/52M 156/622M jitter
Mux Option	MP1570A-07 1.5/45 Mbit/s MUX/DEMUX
Japan Mapping	MP1570A-09 requires MP0122A or MP0122B
Form Factor	MP1570A plug in unit

PARAMETER	VALUE
Leds	LOS LOF AIS RDI sync loss errors
Auxiliary Outputs	clock sync frame sync error output
Through Mode	host transparent and overwrite modes at 52M and above

Notes
From Anritsu MP1570A MP0122A/B specification tables. MP0122B is the 52M optical (1.31) variant of MP0122A.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.