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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU195040A " SI Error Detection Module, 21G/32G bit/s

Anritsu MU195040A 21G/32G bit/s SI ED Module The Anritsu MU195040A is a 21G/32G bit/s signal-integrity error detector module for the MP1900A platform, pairing with MU195020A PPG modules for BER and SI analysis. OEM MP1900A literature lists NRZ rates from 2.4 Gbit/s to 21/32.1 Gbit/s, multi-channel ED configurations, and high-sensitivity input paths with CTLE/clock recovery options in the SI ED family. High-speed serial BER testing, SI receiver margin analysis, and paired PPG/ED signal-integrity characterization on MP1900A. The Anritsu MU195040A is a 21G/32G bit/s signal-integrity error detector module for the MP1900A platform, pairing with MU195020A PPG modules for BER and SI analysis. OEM MP1900A literature lists NRZ rates from 2.4 Gbit/s to 21/32.1 Gbit/s, multi-channel ED configurations, and high-sensitivity input paths with CTLE/clock recovery options in the SI ED family. High-speed serial BER testing, SI receiver margin analysis, and paired PPG/ED signal-integrity characterization on MP1900A. Host Mainframe: MP1900A Signal Quality AnalyzerROperation Bit Rate NRZ Class: 2.4 Gbit/s to 21 Gbit/s or 32.1 Gbit/s



MODEL

**Anritsu
MU195040A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU195040A

LISTING

<https://aumictechlabs.com/products/mu195040a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU195040A is a Signal Integrity Error Detection Module that operates from 2.4 to 32.1 Gbit/s and functions as a plug-in unit for the MP1900A Signal Quality Analyzer-R. It delivers bit error rate measurements under stressed signal conditions, including closed-eye scenarios caused by transmission path losses, through a built-in multi-band Continuous Time Linear Equalization (CTLE) function. The module accepts single-ended data inputs from 0.05 to 1.0 Vp-p and achieves typical input sensitivity of 25 mVp-p, enabling near-live BER performance evaluation of transceivers and Device Under Test comparison. With random jitter intrinsic to the module of 115 fs rms (typical), the MU195040A supports both NRZ and PAM4 modulation formats and accommodates dual-channel 32 Gbit/s data input via option x20 for 64 Gbit/s serial communication evaluation. Technical Specifications Bit Rate: 2.4 to 32.1 Gbit/s Data Input Amplitude: 0.05 to 1.0 Vp-p (single-ended) Input Sensitivity: 25 mVp-p typical; 15 mV typical (EYE Height) Intrinsic Random Jitter: 115 fs rms (typical) Multi-band CTLE: Supports 28, 16, and 8 Gbit/s bands with switchable peak frequency (14, 8, or 4 GHz) and gain control from 0 to -12 dB Channel Configuration: 1ch or 2ch selection 32 Gbit/s Input: Option x20 enables up to 2 channels for 64 Gbit/s evaluation Modulation: NRZ and PAM4 support Emphasis: 10-Tap Variable ISI: Available Key Features Supports PRBS, DATA, Zero-Substitution, Mixed, and Sequence patterns User-programmable patterns: 256 Mbit capacity Capture Modes: Sync Mode, Raw Data, and FEC Symbol Trigger Options: Error Detect, Match Pattern, Manual, External (Rising Edge), Consecutive Error Detect, Intermittent Error Detect PAM4 Symbol Error Display: Distinguishes Lower Eye, Middle Eye, and Upper Eye errors Error Detection Results: Reports complete captured data analysis including first/last error locations and error counts Typical Applications Stressed receiver input tolerance testing with worst-case jitter and voltage noise High-speed transceiver BER performance evaluation Serial communication system characterization at data rates to 32 Gbit/s Signal integrity analysis under transmission path loss conditions Compatibility & Integration Plug-in module for Anritsu MP1900A Signal Quality Analyzer-R. Combines with MU195020A (SI PPG) and MU195050A (Noise Generator) for signal integrity evaluation. Integrates with MU181500B (Jitter Modulation Source) and MX183000A-PL001 (software) for receiver tolerance testing with jitter and noise addition. Supports PCI Express Link Training and LTSSM analysis.

MU195040A Characteristics / Specifications

PARAMETER	VALUE
Host Mainframe	MP1900A Signal Quality AnalyzerROperation Bit Rate NRZ Class: 2.4 Gbit/s to 21 Gbit/s or 32.1 Gbit/s
Instrument Type	SI error detector module
Channel Count Class	1 or 2 class
Input Amplitude Single Ended Class	0.05 Vp-p to 1.0 Vp-p class
Input Amplitude Differential Class	0.1 Vp-p to 2.0 Vp-p class
Input Sensitivity Eye Height Class	15 mV class at 28.1 Gbit/s family
Form Factor	MP1900A plug in module
Series Family	MU195040A
Pattern Support Class	PRBS DATA Zero Substitution Mixed class
Connector Class	K female class
Remote Control	Via MP1900A GPIB LAN
Operating Temperature Class	Plus 5 C to plus 40 C host class
Power	Supplied by MP1900A
CTLE Class	Peak frequency equalizer options class
Clock Recovery	Supported class with SSC
Link Training Support Class	With MX183000A software options
Warmup Class	Per MP1900A recommendation
Calibration	Module level ED calibration class
Export Classification Class	Commercial BERT module class
Noise Combination Class	Works with MU195050A noise generator class
Manufacturer	Anritsu
Operating temperature	Class: Plus 5 C to plus 40 C host class

MU195040A Specifications

PARAMETER	VALUE
Anritsu MU195040A 21G/32G bit/s SI ED Module	Overview
Applications	High-speed serial BER testing, SI receiver margin analysis, and paired PPG/ED signal-integrity characterization on MP1900A.
Key Features	21G/32G bit/s SI error detector
NRZ BER analysis	MP1900A modular plugin
Technical Specifications	Host Mainframe: MP1900A Signal Quality Analyzer R
Notes	From Anritsu MP1900A / MU195040A SI ED product documentation. Confirm exact sensitivity and equalizer options on the module option sheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Plus 5 C to plus 40 C host class
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Operating Temperature Class	Plus 5 C to plus 40 C host class
Power	Supplied by MP1900A
CTLE Class	Peak frequency equalizer options class
Clock Recovery	Supported class with SSC
Link Training Support Class	With MX183000A software options
Warmup Class	Per MP1900A recommendation
Calibration	Module level ED calibration class
Export Classification Class	Commercial BERT module class
Noise Combination Class	Works with MU195050A noise generator class
Manufacturer	Anritsu Notes From Anritsu MP1900A / MU195040A SI ED product documentation. Confirm exact sensitivity and equalizer options on the module option sheet.

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
Host Mainframe	MP1900A Signal Quality AnalyzerROperation Bit Rate NRZ Class: 2.4 Gbit/s to 21 Gbit/s or 32.1 Gbit/s
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Calibration	Module level ED calibration class
Export Classification Class	Commercial BERT module class
Noise Combination Class	Works with MU195050A noise generator class
Manufacturer	Anritsu
Notes	
From Anritsu MP1900A / MU195040A SI ED product documentation. Confirm exact sensitivity and equalizer options on the module option sheet.	

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.