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Data Sheet

August 13, 2026

ANRITSU

Anritsu MU181040B – 14Gbit/s Error Detector

Anritsu MU181040B 14 Gbit/s Error Detector The Anritsu MU181040B is a 14 Gbit/s error detector (ED) plug-in module for the Signal Quality Analyzer (MP1800A / related SQA) mainframes. It measures PRBS, Data, Zero-Substitution, Mixed, and Sequence patterns over an operating frequency range of 0.1 to 14 GHz (extendable with options to about 14.05/14.1 GHz). Input sensitivity is about 20 mVp-p typical at 14 Gbit/s (PRBS $2^{31}-1$). Optional clock recovery (MU181040B-020) and multi-module bonding support higher aggregate rates (up to about 28 Gbit/s with two modules; about 56 Gbit/s with four). The Anritsu MU181040B is a 14 Gbit/s error detector (ED) plug-in module for the Signal Quality Analyzer (MP1800A / related SQA) mainframes. It measures PRBS, Data, Zero-Substitution, Mixed, and Sequence patterns over an operating frequency range of 0.1 to 14 GHz (extendable with options to about 14.05/14.1 GHz). Input sensitivity is about 20 mVp-p typical at 14 Gbit/s (PRBS $2^{31}-1$). Optional clock recovery (MU181040B-020) and multi-module bonding support higher aggregate rates (up to about 28 Gbit/s with two modules; about 56 Gbit/s with four). High-speed SERDES and optical module BER testing; 10GbE/OTU2/OC-192 class error detection; research and production of digital communications devices; multi-lane bonded ED configurations.



MODEL

**Anritsu
MU181040B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU181040B

LISTING

<https://aumictechlabs.com/products/mu181040b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU181040B is a dedicated error detector for high-speed digital communication system analysis, delivering precise bit error rate measurements up to 14 Gbit/s. Built for research, development, and manufacturing environments, it has reliable data stream evaluation essential for validating network components and devices.

Technical Specifications
Data Rate: Up to 14 Gbit/s
Measurement Capability: Bit Error Rate (BER) analysis

Key Features
Optimized sensitivity for detecting errors in high-speed data streams
Designed for precise and reliable BER measurements in demanding test environments
Laboratory and manufacturing-grade accuracy

Typical Applications
High-speed digital communication system validation
Network component and device characterization
Research and development of protocols
Manufacturing quality assurance and acceptance testing

Compatibility & Integration
The MU181040B integrates into laboratory test setups and manufacturing lines requiring high-speed digital signal analysis. It works with potential integration within the Anritsu test and measurement equipment ecosystem. Specific connector types, electrical characteristics, power requirements, power consumption, physical dimensions, weight, and environmental operating ranges are documented in the Anritsu MU181040B user manual and datasheet.

Features & description

From manufacturer datasheet

Features

- 14 Gbit/s error detector plug-in

MU181040B Characteristics / Specifications

PARAMETER	VALUE
Model	MU181040B
Manufacturer	Anritsu
Instrument Type	14 Gbit/s error detector (ED) plug-in
Host Platform	Signal Quality Analyzer MP1800A series
Operating Frequency Range	0.1 to 14 GHz
With Option 0	0.1 to 14 GHz
Operation Bit Rate	0.1 Gbit/s to 14 Gbit/s
Input Sensitivity	20 mVp-p typical (14 Gbit/s, PRBS 2^31-1)
Clock Source	External clock; recovered clock when Option x20 installed
Clock Recovery Option	MU181040B-020
User Pattern Memory Class	128 Mbits
Pattern Types	PRBS; Data; Zero-Substitution; Mixed; Sequence
PRBS Length Class	2^n-1 (n = 7, 9, 10, 11, 15, 20, 23, 31 class)
Rated Frequency Presets Class	10GFC/10GbE over FEC, OTU2, OC192/STM64, SATA, PCIe, XAUI, GbE, OC48/STM16, etc.
Alias	MU181040B; Anritsu MU181040B 14G ED Notes Specs from Anritsu MU181040A/B operation manual and MP1800A product tables. Confirm installed options (002/003/005/020) and mainframe slot population.
Patterns	PRBS, Data, Zero-Substitution, Mixed, Sequence
Host	MP1800A Signal Quality Analyzer series

MU181040B Specifications

PARAMETER	VALUE
Anritsu MU181040B 14 Gbit/s Error Detector	Overview
Key Features	- 14 Gbit/s error detector plug-in
Technical Specifications	Model: MU181040B

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	MU181040B
Manufacturer	Anritsu
Instrument Type	14 Gbit/s error detector (ED) plug-in

Specifications

PARAMETER	VALUE
Host Platform	Signal Quality Analyzer MP1800A series
Operating Frequency Range	0.1 to 14 GHz
With Option 002	0.1 to 14 GHz

With Options 002+003: 0.1 to 14.05 GHz

With Options 002+005: 0.1 to 14.1 GHz

Specifications

PARAMETER	VALUE
Operation Bit Rate	0.1 Gbit/s to 14 Gbit/s
Input Sensitivity	20 mVp-p typical (14 Gbit/s, PRBS 2^31-1)
Clock Source	External clock; recovered clock when Option x20 installed

Specifications

PARAMETER	VALUE
Clock Recovery Option	MU181040B-020
User Pattern Memory Class	128 Mbits
Pattern Types	PRBS; Data; Zero-Substitution; Mixed; Sequence

PRBS Length Class: 2^n-1 (n = 7, 9, 10, 11, 15, 20, 23, 31 class)

Rated Frequency Presets Class: 10GFC/10GbE over FEC, OTU2, OC192/STM64, SATA, PCIe, XAUI, GbE, OC48/STM16, etc.

Two-Module Aggregate Class: up to about 28 Gbit/s

Four-Module Aggregate Class: up to about 56 Gbit/s

Related Lower-Rate ED: MU181040A 12.5 Gbit/s

Alias: MU181040B; Anritsu MU181040B 14G ED

Notes

Specs from Anritsu MU181040A/B operation manual and MP1800A product tables. Confirm installed options (002/003/005/020) and mainframe slot population.

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.