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Data Sheet

August 14, 2026

ANRITSU

Anritsu MU181020A 12.5 Gbit/s Pulse Pattern Generator Module; 12.5Gb/s

The Anritsu MU181020A is a 12.5 Gbit/s pulse pattern generator module for Anritsu Signal Quality Analyzer mainframes. OEM module tables list it alongside MU181020B 14 Gbit/s PPG and MU181040A ED for mid-rate serial stimulus. 12.5 Gbit/s serial stimulus, BER system pattern generation, and modular SQA configurations. Instrument Type: Pulse pattern generator module Host Platform Class: Anritsu Signal Quality Analyzer Jitter Addition Class: With host jitter source modules class Status Reporting: Host status system class Form Factor Height Class: Single module slot class From Anritsu MU181020A 12.5 Gbit/s PPG module tables in MP1900A/SQA documentation. Confirm amplitude and connector type on the module datasheet.



MODEL

**Anritsu
MU181020A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU181020A

LISTING

<https://aumictechlabs.com/products/mu181020a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU181020A is a high-speed pulse pattern generator module engineered for testing and characterization of digital communication systems at data rates up to 12.5 Gb/s. This module delivers programmable pulse pattern generation, precise control over signal parameters, and synchronized multi-channel operation for signal integrity analysis across communication

interfaces. Technical Specifications Data Rate & Pattern Generation Maximum data rate: 12.5 Gb/s Pattern types: Programmable pulse patterns, pseudo-random binary sequences (PRBS), user-defined patterns Clock sources: Internal and external synchronization Output Characteristics Adjustable output voltage levels for multi-condition signal simulation Low intrinsic jitter for accurate signal integrity measurements Fast rise and fall times optimized for high-speed digital interface characterization Fine-grained pulse width control for signal impairment simulation Signal Generation Capabilities Extended pattern memory supporting complex, long-duration test sequences Data error insertion for bit error rate (BER) testing Programmable channel-to-channel skew for multi-lane interface testing Flexible triggering options for synchronized measurement and data capture Synchronization & Control External trigger input for synchronization with external test equipment Remote control via standard interfaces enabling automated test environments Pattern synchronization ensuring precise timing and alignment in multi-channel configurations Key Features High-speed coaxial connectors (SMA or equivalent) for pulse pattern output Dedicated clock input/output connectors for external synchronization and clock distribution Control and synchronization ports for remote operation Modular form factor designed for integration into Anritsu test platforms Typical Applications Digital communication system development and verification High-speed serial interface characterization (multi-lane protocols) Signal integrity analysis under controlled impairment conditions Bit error rate testing and data error injection studies Compatibility & Integration Designed for integration with Anritsu mainframe chassis and signal analysis platforms. Operates with Anritsu's proprietary control and analysis software for configuration and data management.

MU181020A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Pulse pattern generator module
Bit Rate Class	12.5 Gbit/s class
Series Family	MU181020A
Related ED	MU181040A 12.5 Gbit/s ED
Related Sibling	MU181020B 14 Gbit/s PPG
Form Factor	Plug in module
Host Platform Class	Anritsu Signal Quality Analyzer
Pattern Support Class	PRBS and programmable data class
Output Connector Class	High speed coaxial class
Remote Control	Via host GPIB LAN
Power	Supplied by host
Operating Temperature Class	Host laboratory range class
Output Amplitude Class	Differential PPG amplitude class
Impedance Class	50 ohms class
Clock Output Class	Supported class
Warmup Class	Per host recommendation
Calibration	Module level PPG calibration class
Export Classification Class	Commercial BERT module class
Channel Count Class	Single channel class
Jitter Addition Class	With host jitter source modules class
Status Reporting	Host status system class
Form Factor Height Class	Single module slot class
Operating temperature	Class: Host laboratory range class

MU181020A Specifications

PARAMETER	VALUE
Anritsu MU181020A 12.5 Gbit/s PPG Module	Overview
Applications	12.5 Gbit/s serial stimulus, BER system pattern generation, and modular SQA configurations.
Key Features	12.5 Gbit/s PPG
Technical Specifications	Instrument Type: Pulse pattern generator module

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Host laboratory range class
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Operating Temperature Class	Host laboratory range class
Output Amplitude Class	Differential PPG amplitude class
Impedance Class	50 ohms class
Clock Output Class	Supported class
Warmup Class	Per host recommendation
Calibration	Module level PPG calibration class
Export Classification Class	Commercial BERT module class
Channel Count Class	Single channel class
Jitter Addition Class	With host jitter source modules class
Status Reporting	Host status system class
Form Factor Height Class	Single module slot class Notes From Anritsu MU181020A 12.5 Gbit/s PPG module tables in MP1900A/SQA documentation. Confirm amplitude and connector type on the module datasheet.

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	
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PARAMETER	VALUE
Instrument Type	Pulse pattern generator module
Bit Rate Class	12.5 Gbit/s class
Series Family	MU181020A
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Notes	
From Anritsu MU181020A 12.5 Gbit/s PPG module tables in MP1900A/SQA documentation. Confirm amplitude and connector type on the module datasheet.	

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.