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Data Sheet
August 14, 2026

ANRITSU

Anritsu MU183020A â€“ Pulse Pattern Generator (PPG) Module; 2.4 Gbit/s to 28.1 Gbit/s

Anritsu MU183020A 28G/32G bit/s PPG Module The Anritsu MU183020A is a 28G/32G pulse pattern generator module (1ch or 2ch) for Anritsu signal-quality analyzer platforms. OEM leaflet data list 2.4 to 28.1 Gbit/s standard operation with Opt-001 extension to 32.1 Gbit/s, differential K-connector outputs, amplitude from 0.5 to 2.0 Vp-p (to 3.5 Vp-p with options), and typical 12 ps Tr/Tf. Multi-channel high-speed BERT stimulus, SERDES validation, and 28/32G NRZ pattern generation. Bit Rate Standard: 2.4 Gbit/s to 28.1 Gbit/s The Anritsu MU183020A is a 28G/32G pulse pattern generator module (1ch or 2ch) for Anritsu signal-quality analyzer platforms. OEM leaflet data list 2.4 to 28.1 Gbit/s standard operation with Opt-001 extension to 32.1 Gbit/s, differential K-connector outputs, amplitude from 0.5 to 2.0 Vp-p (to 3.5 Vp-p with options), and typical 12 ps Tr/Tf. Multi-channel high-speed BERT stimulus, SERDES validation, and 28/32G NRZ pattern generation. Bit Rate Standard: 2.4 Gbit/s to 28.1 Gbit/s Amplitude Standard: 0.5 Vp-p to 2.0 Vp-p 2 mV step

MODEL Anritsu MU183020A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU MU183020A	LISTING https://aumictechlabs.com/products/mu183020a-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU183020A is a Pulse Pattern Generator (PPG) module engineered for high-speed digital communication system testing across 2.4 Gbit/s to 28.1 Gbit/s, with optional extension to 32.1 Gbit/s. This module integrates into the MP1800A Signal Quality Analyzer series to deliver precise pulse pattern generation for characterization and validation of high-speed interfaces in research, development, and production environments. Technical Specifications Data Rate Performance Operating bit rate: 2.4 Gbit/s to 28.1 Gbit/s Extended rate (Option 001): Up to 32.1 Gbit/s Signal Generation Pattern types: PRBS (2^n–1 where n = 7, 9, 10, 11, 15, 20, 23, 31), programmable DATA, Zero-Substitution, and Mixed patterns Output amplitude: 0.5 to 3.5 Vp-p variable; 2 V with Option 012; 3.5 V with Option 013; low-amplitude steps (0.1%) available for 0.5 to 0.998 Vpp with options Rise/fall times (20–80%): Typical 12 ps at 28.1 Gbit/s and 32.1 Gbit/s, 3.5 Vp-p; eye diagram values 9.36 ps to 10.86 ps depending on amplitude Jitter: Typical 8 ps p-p (sampling oscilloscope <200 fs rms intrinsic); eye diagram measurements 479 fs rms to 571 fs rms Data delay range: –1000 to +1000 mUI, 2 mUI steps (Option 030) Cross-point adjust: 20–80% (1 to 3.5 Vpp), 30–70% (0.5 to 0.998 Vpp) at 0.1% step increments (Options 013, 023) Clock and Interface Clock output: Single-ended, K-connector, 50 Ω; full-rate (2.4 GHz to 32.1 GHz) or half-rate (1.2 GHz to 16.05 GHz); amplitude 0.3 to 1.0 Vp-p External clock input: SMA-connector, 50 Ω; 1.2 GHz to 16.05 GHz; –6.5 to +4.0 dBm Auxiliary input/output: SMA-connectors, 50 Ω for error injection, burst enable, divided output, pattern sync, and burst functions Key Features Supports PRBS sequences up to 2^31–1 for compliance and stress testing Variable output amplitude with fine-grain cross-point control for parametric testing Sub-12 ps edge rates enable accurate high-speed interface emulation Low intrinsic jitter (<600 fs rms) for deterministic signal generation Typical Applications High-speed serial link characterization (PCIe, USB, Ethernet) Receiver sensitivity and eye margin measurement Jitter injection and tolerance verification Production quality assurance for digital communication modules

MU183020A Characteristics / Specifications

PARAMETER	VALUE
Bit Rate Standard	2.4 Gbit/s to 28.1 Gbit/s
Bit Rate With Opt 0	to 32.1 Gbit/s
Channel Configurations	1 ch or 2 ch
Output Type	Differential
Output Connector	K connector 50 ohm
Amplitude Standard	0.5 Vp-p to 2.0 Vp-p 2 mV step
Amplitude High Opt	0.5 Vp-p to 3.5 Vp-p
Cross Point Adjust	20 percent to 80 percent at higher amplitudes
Tr Tf Typical	12 ps 20 to 80 percent at 28.1/32.1 Gbit/s
Data Delay Option Range Class	minus 1000 to plus 1000 mUI class
Clock Output	Single ended 1 ch SMA 50 ohm
Clock Output Amplitude	0.3 Vp-p min to 1.0 Vp-p max
Clock Input Amplitude	0.3 to 1.0 Vp-p
PRBS Orders	n equals 7 9 10 11 15 20 23 31
Form Factor	Plug in PPG module
Series Family	MU183020A
Remote Control	Via host SQA mainframe
Power	Supplied by host
Operating Temperature Class	Host laboratory range class
Calibration	Module level PPG calibration class
Manufacturer	Anritsu
Related Four Channel PPG	MU183021A
Operating temperature	Class: Host laboratory range class

MU183020A Specifications

PARAMETER	VALUE
Anritsu MU183020A 28G/32G bit/s PPG Module	Overview
Applications	Multi-channel high-speed BERT stimulus, SERDES validation, and 28/32G NRZ pattern generation.
Key Features	28G/32G multi channel PPG
Differential K connector outputs	Optional 32G extension
Optional 2.0 V or 3.5 V data out	PRBS 2^n-1 pattern set
Technical Specifications	Bit Rate Standard: 2.4 Gbit/s to 28.1 Gbit/s
Notes	From Anritsu MU183020A/MU183021A 28/32G Multi-Channel PPG leaflet specifications.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Host laboratory range class
Operating Temperature	Class: Host laboratory range class
Operating Temperature Class	Host laboratory range class
Calibration	Module level PPG calibration class
Manufacturer	Anritsu
Related Four Channel PPG	MU183021A Notes From Anritsu MU183020A/MU183021A 28/32G Multi-Channel PPG leaflet specifications.

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

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Manufacturer	Anritsu
Related Four Channel PPG	MU183021A

Notes
From Anritsu MU183020A/MU183021A 28/32G Multi-Channel PPG leaflet specifications.

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

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