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Data Sheet

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ANRITSU

Anritsu MU183021A 28G/32G bit/s 4ch Plugin Module

Anritsu MU183021A 28G/32G bit/s 4ch PPG Plugin Module The Anritsu MU183021A is a four-channel pulse pattern generator plug-in module for the MP1800A Signal Quality Analyzer mainframe. It provides 28G/32G-class multi-channel PPG operation with eight ports (four differential pairs). Standard bit-rate range is 2.4 to 28.1 Gb/s; Option 001 extends operation to 32.1 Gb/s. Amplitude options include approximately 0.5 to 2.0 Vp-p (012 class) or 0.5 to 3.5 Vp-p (013 class) with typical rise/fall times on the order of 12 ps. Channel synchronization and combination features support multi-lane SERDES and optical module test. The related MU183020A covers 1/2-channel configurations in the same family. The Anritsu MU183021A is a four-channel pulse pattern generator plug-in module for the MP1800A Signal Quality Analyzer mainframe. It provides 28G/32G-class multi-channel PPG operation with eight ports (four differential pairs). Standard bit-rate range is 2.4 to 28.1 Gb/s; Option 001 extends operation to 32.1 Gb/s. Amplitude options include approximately 0.5 to 2.0 Vp-p (012 class) or 0.5 to 3.5 Vp-p (013 class) with typical rise/fall times on the order of 12 ps. Channel synchronization and combination features support multi-lane SERDES and optical module test. The related MU183020A covers 1/2-channel configurations in the same family. 28G/32G multi-lane PPG for optical modules, SERDES, and backplane.



MODEL

**Anritsu
MU183021A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU183021A

LISTING

<https://aumictechlabs.com/products/mu183021a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU183021A is a four-channel Pulse Pattern Generator (PPG) plug-in module for the MP1800A Signal Quality Analyzer series. It generates differential high-quality, low-jitter waveforms across a wide bit rate range, enabling multi-lane communication testing, bit error rate analysis, and high-speed interconnect validation.

Technical Specifications

Electrical Performance

Operating bit rate: 2.4 to 28.1 Gbit/s (standard); 2.4 to 32.1 Gbit/s with Opt-001 Data output

Differential Variable amplitude: 0.5 to 3.5 Vp-p

Jitter (typical): 533 fs rms at 1 V eye pattern; 479 fs rms at 2 V eye pattern; 497 fs rms at 500 mV with 12 dB attenuation

Transition time: 9.36 ps rise, 10.17 ps fall at 1 V; 9.75 ps rise, 9.86 ps fall at 2 V

Multi-channel configuration: 1, 2, or 4 channels selectable

Signal Processing 4-tap emphasis signal generator up to 28.1 Gbit/s (with MP1825B)

Auxiliary differential signal output

Clock output

Key Features

- Simultaneous multi-channel pattern generation and BER analysis
- Simultaneous multi-channel crosstalk testing capability
- Low-amplitude output support via precision attenuators (e.g., 41KC-6 6 dB)
- Scalable to 8 total channels using two MP1800A units with mixed PPG/ED configurations
- High-speed transition times (sub-10 ps) for accurate waveform fidelity

Typical Applications

- High-speed serial link characterization and validation
- Backplane and optical module development
- Multi-lane signal integrity analysis
- Jitter and waveform quality assessment in transmission channels

Compatibility & Integration

Plug-in module compatible with Anritsu Signal Quality Analyzer mainframes including MP1800A and MT1810A. Contact Anritsu for current mainframe compatibility information.

Features & description

From manufacturer datasheet

Features

- MP1800A plug-in 4-channel PPG
- Bit rate 2.4 to 28.1 Gb/s standard; to 32.1 Gb/s with Option 001
- 8 ports / 4 differential channels
- Amplitude options: about 0.5-2.0 Vp-p (012) or 0.5-3.5 Vp-p (013)
- Typical Tr/Tf about 12 ps
- Channel sync and combination
- Related: MU183020A (1/2 channel)

MU183021A Characteristics / Specifications

PARAMETER	VALUE
Model	MU183021A
Manufacturer	Anritsu
Mainframe	MP1800A Signal Quality Analyzer
Instrument Type	4-channel PPG plug-in module
Bit Rate	2.4 to 28.1 Gb/s; 32.1 Gb/s with Option 001
Channels / Ports	4 differential channels (8 ports)
Output Amplitude	Option 012 class about 0.5 to 2.0 Vp-p; Option 013 class about 0.5 to 3.5 Vp-p
Rise/Fall Time	about 12 ps typical
Form Factor	MP1800A plug-in module Related Modules
MU183020A	1/2-channel PPG in the same 28G/32G family Matching error-detector plug-ins per MP1800A configuration guide Standard Operating Conditions Install only incompatible MP1800A slot with adequate power budget. Use appropriate high-speed cables and connectors. Confirm installed amplitude option (012 vs 013) and Option 001 before quoting 32G operation.
Amplitude options	about 0.5-2.0 Vp-p (012) or 0.5-3.5 Vp-p (013)
Related	MU183020A (1/2 channel)

MU183021A Specifications

PARAMETER	VALUE
Anritsu MU183021A 28G/32G bit/s 4ch PPG Plugin Module	Overview
Key Features	- MP1800A plug-in 4-channel PPG
Technical Specifications	Model: MU183021A
Related Modules	MU183020A — 1/2-channel PPG in the same 28G/32G family
Operational Notes	MU183021A is a plug-in — it is not a standalone generator. Verify mainframe firmware compatibility for 28G/32G operation.

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	MU183021A
Manufacturer	Anritsu
Mainframe	MP1800A Signal Quality Analyzer
Instrument Type	4-channel PPG plug-in module
Bit Rate	2.4 to 28.1 Gb/s; 32.1 Gb/s with Option 001
Channels / Ports	4 differential channels (8 ports)
Output Amplitude	Option 012 class about 0.5 to 2.0 Vp-p; Option 013 class about 0.5 to 3.5 Vp-p
Rise/Fall Time	about 12 ps typical
Form Factor	MP1800A plug-in module

Related Modules

MU183020A - 1/2-channel PPG in the same 28G/32G family

Matching error-detector plug-ins per MP1800A configuration guide

Standard Operating Conditions

Install only incompatible MP1800A slot with adequate power budget. Use appropriate high-speed cables and connectors. Confirm installed amplitude option (012 vs 013) and Option 001 before quoting 32G operation.

Operational Notes

MU183021A is a plug-in - it is not a standalone generator. Verify mainframe firmware compatibility for 28G/32G operation.

Ordering Information

OPTION	DESCRIPTION
Option 001	extends operation to 32.1 Gb/s. Amplitude options include approximately 0.5 to 2.0 Vp-p (012 class) or 0.5 to 3.5 Vp-p (013 class) with typical rise/fall times
Option 012	class about 0.5 to 2.0 Vp-p; Option 013 class about 0.5 to 3.5 Vp-p

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.