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Data Sheet

August 14, 2026

ANRITSU

Anritsu MP1825B 4 Tap Digital Pre-Emphasis Processor

Anritsu MP1825B 4 Tap Digital Pre Emphasis Processor The Anritsu MP1825B is a 4-tap digital pre-emphasis processor used to shape high-speed digital stimulus for SERDES and optical module stressed-eye testing. Pre-emphasis / de-emphasis of high-speed digital patterns for receiver stress testing. Instrument Type: Digital pre emphasis processor The Anritsu MP1825B is a 4-tap digital pre-emphasis processor used to shape high-speed digital stimulus for SERDES and optical module stressed-eye testing. Pre-emphasis / de-emphasis of high-speed digital patterns for receiver stress testing. Instrument Type: Digital pre emphasis processor Function: digital pre emphasis / de emphasis



MODEL

Anritsu MP1825B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MP1825B

LISTING

<https://aumictechlabs.com/products/mp1825b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MP1825B is a 4-tap digital pre-emphasis processor that enhances signal integrity in high-speed digital communication systems by applying precise pre-emphasis to compensate for channel impairments. The device minimizes inter-symbol interference and maximizes data throughput through configurable tap weights and emphasis levels, making it essential for characterizing and optimizing high-speed data links. Technical Specifications Bit rate support

ranges from 1 Gbit/s to 14.05 Gbit/s (MP1825B-001), up to 14.1 Gbit/s (MP1825B-001, 005), 28.1 Gbit/s (MP1825B-002 without Doubler I/O), and 32.1 Gbit/s (MP1825B-002, 006 without Doubler I/O). Operation with Doubler Input/Output supports 8 Gbit/s to 28.1 Gbit/s. Bit rates from 28.1 Gbit/s to 32.1 Gbit/s require full-rate clock input; half-rate clock operation is available at 8 Gbit/s to 28.1 Gbit/s. Output specifications include 2 outputs (Data, xData). Data output amplitude is fixed at 0.4 Vp-p minimum and 1.0 Vp-p maximum (MP1825B-002). Peak voltage ranges from 100 mVp-p to 1.5 Vp-p single-ended. Eye amplitude operates between 100 mVp-p to 1.0 Vp-p single-ended with 2 mVp-p steps. DC offset adjustment spans $-1.0 V_{th}$ to $+1.0 V_{th}$ in 1 mV increments. Variable data delay (MP1825B-003 or MP1825B-004) provides phase adjustment from -1000 mUI to $+1000 \text{ mUI}$ with typical accuracy of 50 mUIp-p. Key Features Flexible emphasis configurations: 2-post-cursor with 1-pre-cursor; 3-post-cursor; 1-post-cursor with 1-pre-cursor; 2-post-cursor; 1-post-cursor; Reversed 3-post-cursor K-type connectors with 50Ω AC coupling termination Jitter transparent operation for jitter tolerance testing Compact form factor: 120 mm (W) $\times$ 90.9 mm (H) $\times$ 140 mm (D) Compatibility & Integration The MP1825B functions as a front-end module for Pulse Pattern Generators (PPGs), Anritsu Bit Error Rate Testers (BERTs), and third-party measurement equipment. Independent USB control via host PC is available when standalone operation is required, or integration with the Anritsu MP1800A Signal Quality Analyzer for synchronized testing. Note: MP1825B is discontinued; MP1900A is the designated replacement.

MP1825B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Digital pre emphasis processor
Series Family	Anritsu MP1825
Model	MP1825B
Tap Count	4
Function	digital pre emphasis / de emphasis
Application Class	SERDES and optical module stress test
Manufacturer	Anritsu
Form Factor	instrument/processor unit
Use Stage	R&D manufacturing
Control	programmable taps
Companion	Anritsu PPG/BERT systems
Signal Path	high speed digital I/O
Remote	automated control class
Calibration	OEM setup procedures
Documentation	MP1825B manual
Standards Class	multi gigabit interconnect testing
Eye Shaping	stressed eye generation support
Accessories	high speed cables
Environment	lab SI test
Protection	observe amplitude limits
Display	tap and status setup
Family	Anritsu signal integrity accessories
Bit Rate	configuration dependent with host PPG
Interfaces	matched to Anritsu PPG outputs

PARAMETER

VALUE

Configuration Note

expand full bit rate and tap amplitude tables from OEM datasheet
before denser upload

MP1825B Specifications

PARAMETER	VALUE
Anritsu MP1825B 4 Tap Digital Pre Emphasis Processor	Overview
Key Features	4 tap digital pre-emphasis processor
Technical Specifications	Instrument Type: Digital pre emphasis processor
Notes	Tap-count identity from Anritsu MP1825B product title (4 tap). Expand full rate/amplitude tables from the OEM datasheet before upload.

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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Notes

Tap-count identity from Anritsu MP1825B product title (4 tap). Expand full rate/amplitude tables from the OEM datasheet before upload.

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.