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Data Sheet

August 2, 2026

ANRITSU

Anritsu MU181500B – Jitter Modulation Source Module

Anritsu MU181500B – Jitter Modulation Source Module The MU181500B provides a jitter modulation source plug-in module designed for the Anritsu MP1800A and MP1900A signal quality analyzer mainframes. It applies sinusoidal jitter (SJ), random jitter (RJ), bounded uncorrelated jitter (BUJ), spread-spectrum clock (SSC), and external jitter modulation to clock signals from 800 MHz to 15 GHz when paired with an MU181000A or MU181000B synthesizer module. Jitter tolerance and jitter transfer function testing of SERDES and clock recovery circuits; SJ/RJ/BUJ/SSC stress testing in BERT and signal integrity workflows; dual-tone SJ characterization; clock domain jitter injection for MP1800A/MP1900A automated test systems.

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MODEL

**Anritsu
MU181500B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MU181500B

LISTING

<https://aumictechlabs.com/products/mu181500b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MU181500B is a jitter modulation source module designed as a plug-in for Anritsu Signal Quality Analyzer mainframes. It generates and modulates multiple jitter types Sinusoidal Jitter (SJ), Random Jitter (RJ), Bounded Uncorrelated Jitter (BUJ), Spread Spectrum Clock (SSC), and external jitter - to enable comprehensive jitter tolerance testing of high-speed digital communication devices. The module injects controlled jitter into clock signals across the 800 MHz to 15 GHz range with an intrinsic jitter floor of less than 350 fs rms, supporting both single and dual-tone modulation for advanced characterization.

Technical Specifications
Frequency Range: 800 MHz to 15 GHz
Intrinsic Jitter: Less than 350 fs rms (MP1800A)
Jitter Types: Sinusoidal, Random, Bounded Uncorrelated, Spread Spectrum Clock, External
Modulation Modes: Single and dual-tone SJ/RJ/BUJ/SSC; simultaneous injection of RJ, BUJ, SSC, and dual-tone SJ for PCIe compliance
Output: Jittered and unmodulated divided clock signals for DUT and measurement systems
Key Features
Low intrinsic jitter enables high-accuracy tolerance measurements
Supports linked operation with MU181000A/B modules for coordinated testing
Generates separated or combined jitter injection modes for flexible test configurations
Outputs both modulated test clocks and clean reference clocks simultaneously
Typical Applications
28 Gbit/s high-speed interconnects (CEI-25G, CEI-28G-VSR)
100GBASE-LR4/ER4 optical interconnects
InfiniBand 26G-IB-EDR 16G and 32G
Fibre Channel PCI Express (PCIe) 4.0 and earlier SAS, SATA, FB-DIMM USB 3.0, DisplayPort
Receiver stress tolerance and jitter margin testing
Compatibility & Integration
Mainframes: MP1800A, MT1810A, MP1900A
Test Software: MX181500A Jitter/Noise Tolerance Test Software
Noise Addition: Compatible with MU195050A Noise Generator for CM/DM/White voltage noise injection

Features & description

From manufacturer datasheet

Features

- MP1800A/MP1900A plug-in jitter modulation source • SJ, RJ, BUJ, SSC, and external jitter modulation
- Clock frequency range 800 MHz to 15 GHz • Wide SJ amplitude to 1 UI at 250 MHz; up to 2000 UI class at lower frequencies • Low intrinsic jitter approximately 275 fs rms class • Dual-tone SJ capability • Pairs with MU181000A/B synthesizer module • SMA input/output connectors

MU181500B Characteristics / Specifications

PARAMETER	VALUE
Anritsu MU181500B	Jitter Modulation Source Module Overview The MU181500B providesajitter modulation source plug-in module designed for the Anritsu MP1800A and MP1900A signal quality analyzer mainframes. It applies sinusoidal jitter (SJ), random jitter (RJ), bounded uncorrelated jitter (BUJ), spread-spectrum clock (SSC), and external jitter modulation to clock signals from 800 MHz to 15 GHz when paired with an MU181000A or MU181000B synthesizer module.
Model	MU181500B
Manufacturer	Anritsu
Mainframe	MP1800A, MP1900A Signal Quality Analyzer
Instrument Type	Jitter Modulation Source Plug-in Module
Clock Frequency Range	800 MHz to 15 GHz
Jitter Types	SJ, RJ, BUJ, SSC, external jitter
SJ Amplitude	To 1 UI at 250 MHz; up to 2000 UI class (frequency dependent)
Intrinsic Jitter	Approximately 275 fs rms class
Companion Module	MU181000A or MU181000B synthesizer
Connectors	SMA I/O
Form Factor	MP1800A/MP1900A plug-in module
Alias	MU181500B Standard Operating Conditions Install only inacompatible MP1800A or MP1900A slot with adequate power budget. Pair with MU181000A/B synthesizer for clock source. Use appropriate high-speed SMA cables and confirm mainframe firmware compatibility before jitter stress testing.

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	MU181500B
Manufacturer	Anritsu
Mainframe	MP1800A, MP1900A Signal Quality Analyzer
Instrument Type	Jitter Modulation Source Plug-in Module
Clock Frequency Range	800 MHz to 15 GHz
Jitter Types	SJ, RJ, BUJ, SSC, external jitter
SJ Amplitude	To 1 UI at 250 MHz; up to 2000 UI class (frequency dependent)
Intrinsic Jitter	Approximately 275 fs rms class

Dual-Tone SJ: Supported

Specifications

PARAMETER	VALUE
Companion Module	MU181000A or MU181000B synthesizer
Connectors	SMA I/O
Form Factor	MP1800A/MP1900A plug-in module
Alias	MU181500B

Standard Operating Conditions

Install only incompatible MP1800A or MP1900A slot with adequate power budget. Pair with MU181000A/B synthesizer for clock source. Use appropriate high-speed SMA cables and confirm mainframe firmware compatibility before jitter stress testing.

Operational Notes

MU181500B is a plug-in module—it requires an MP1800A or MP1900A mainframe and a companion MU181000A/B synthesizer for operation. Confirm installed firmware supports desired jitter modulation modes. Alias MU181500B.

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.