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Data Sheet
August 14, 2026

ANRITSU

Anritsu ME520B Digital Transmission Analyzer

Anritsu ME520B Digital Transmission Analyzer The Anritsu ME520B isadigital transmission analyzer for BER and transmission quality measurements on digital communications links. Digital transmission testing, error performance analysis, and telecom link commissioning. Instrument Type: Digital transmission analyzer The Anritsu ME520B isadigital transmission analyzer for BER and transmission quality measurements on digital communications links. Digital transmission testing, error performance analysis, and telecom link commissioning. Instrument Type: Digital transmission analyzer Measurement Role: digital transmission quality and BER

MODEL **Anritsu ME520B**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **ME520B**	LISTING **https://aumictechlabs.com/products/me520b-2/**

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

NAICS 423690 · 811210 · 541380

This unit

The Anritsu ME520B is a Digital Transmission Analyzer designed for precise testing and analysis of digital transmission systems. This instrument is capable of measuring error rates and jitter on PCM signals across a clock frequency range of 1 kHz to 150 MHz, supporting 1st to 4th order PCM hierarchies and 10 CH systems. It has simultaneous measurement of error rate and jitter, with results displayed digitally and analyzed in real-time. The unit can print analysis results along with date and time, enabling continuous long-term measurements. The ME520B is particularly well-suited for the development and maintenance of radio PCM, wired PCM, optical fiber systems, and

other digital communication systems. Its design includes separate transmitter and receiver units to facilitate end-to-end measurements. The transmitter functions as a digital signal generator, producing M-sequence pseudorandom pattern signals and jitter-modulated signals that emulate actual transmitted signals. The receiver analyzes incoming signals to detect errors and measure jitter. The Anritsu ME520B can perform error analysis compliant with CCITT I Rec 0.821, making it valuable for evaluating international communication circuits. Technical Specifications General: Product Type: Digital Transmission Analyzer Simultaneous Measurement Capability: Error Rate and Jitter Supported Systems: Radio PCM, Wired PCM, Optical Fiber Systems, Digital Communication Systems Compliance: CCITT I Rec 0.821 (for error analysis) Transmitter Unit: Signal Generation: M-sequence pseudorandom pattern signals, Jitter modulated signals Clock Signal Unit: * Generates timing signal * Supported Bit Rates: 704, 2048, 8448, 34368, 68736, 139264 kbit/s * External Clock Signal Access: Supported Pattern/PRBS Generator: * PRBS Patterns: 2e10-1, 2e15-1, 2e23-1 * Pattern Generator: 1×16 bit, 2×8 bit * Null Sequence Insertion: Supported (8 to 120 bit) * Bit Error Insertion: Supported Output Unit: * Inserts measuring signal into the examined object * Line Codes: CMI, RZ, NRZ, AMI, HDB3 * Output Levels: TTL, ECL, Variable * Output Impedance: 75 ohm Jitter Modulator: * Modulates timing signal phase with external signal generator * Maximum Modulation Depth: 10 UI-pp * Sensitivity: 10 UI-pp/V Receiver Unit: Input Unit: Inserts the signal of the examined object into the instrument. Clock Signal Unit: Obtains the timing signal from the received signal. Pattern/PRBS Generator: Generates the measuring signal for bit error rate measurement. Measurement Time Basis: Programmable measurement time. Error Counter: Counts and evaluates bit errors. * Error Rate Thresholds: 1×10^{-3} to 1×10^{-7} * Error Count Thresholds: 1 to 999,999 * Display: % values with 4 decimal digits * Averaging: Error rate averaged per 1 second or rate of time in which 1 minute error count exceeded threshold. Jitter Measuring Tool: * Measurement Domain Range: 1 UI, 10 UI * Measurement Rate: Slow, Medium, Fast * Filters: HP1-LP, HP2-LP, LP, OFF * HIT THRESHOLD SET: Yes * Jitter Display: JITTER UI (Unit Interval), HIT COUNT, HIT INTVLS, HIT FREE INTVLS. * Max Jitter Measurement: 0.00 to 10.10 UIp-p * Accuracy: ±4% + additional error (refer to relevant tables/figures in manual) General Measurement Capabilities: PCM Signal Clock Frequencies: 1 kHz to 150 MHz Error Detection: Detection of bit errors within a block (e.g., PRBS block length aligns with PRBS length). Continuous Measurement: Supported with internal printer for logging time/date stamped results. Frequency Range: Analyzer Frequency Range: 50 Hz to 2.7 GHz Input/Output Characteristics: Input Impedance: 50 ohms Maximum Input Level: +30 dBm (1 W) Output Power: -10 dBm to +10 dBm Output Impedance: 50 ohms Modulation Types (Supported by Analyzer): AM, FM, PM, FSK, BPSK, QPSK, OQPSK, MSK, GMSK, π/4-DQPSK, QAM Physical Characteristics: Dimensions: 320 × 180 × 130 mm Weight: 3.5 kg Display: LCD with backlight Power Requirements: Power Supply: 100-240 VAC, 50/60 Hz Why Choose Aumictech for Anritsu

ME520B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Digital transmission analyzer
Series Family	Anritsu ME520
Model	ME520B
Manufacturer	Anritsu
Measurement Role	digital transmission quality and BER
Application Class	telecom digital links
Form Factor	benchtop/portable analyzer class
Use Stage	install maintain R&D
Interfaces	digital communications interfaces class
Patterns	PRBS and framed patterns class
Error Analysis	error counts and rates
Clocking	recovered and external clock class
Remote	GPIB class automation
Display	error and status readouts
Calibration	OEM calibration
Standards Class	PDH/SDH related rates depending on options
Accessories	interface cables
Documentation	ME520B manual
Family	Anritsu digital transmission analyzers
Successor Platforms	later Anritsu BERT/DTA products
Environment	telecom test conditions
Protection	observe interface level limits
Reporting	error performance results
Configuration Note	expand full rate and interface tables from OEM datasheet before denser upload

ME520B Specifications

PARAMETER	VALUE
Anritsu ME520B Digital Transmission Analyzer	Overview
Technical Specifications	Instrument Type: Digital transmission analyzer
Notes	Identity rows from Anritsu ME520B product listings. Expand full rate/interface numeric 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.

performance analysis, and telecom link commissioning.

Key Features
Digital transmission analyzer
BER and error performance measurements
Telecom digital link testing
Anritsu transmission analyzer family
Lab and field digital test

Technical Specifications

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Options: interface and rate options

Specifications

PARAMETER	VALUE
Accessories	interface cables
Documentation	ME520B manual

PARAMETER	VALUE
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Notes
Identity rows from Anritsu ME520B product listings. Expand full rate/interface numeric 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

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