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Data Sheet

August 14, 2026

ANRITSU

Anritsu S251B Scalar Network Analyzer 2.5GHz

The Anritsu S251B is a handheld scalar network analyzer covering approximately up to 2.5 GHz. It is a successor to the S251A. OEM product literature positions it for antenna and component scalar transmission/reflection measurements in the field. Scalar transmission and reflection measurements on antennas and RF components to 2.5 GHz class. Frequency Range Class: Up to 2.5 GHz class Instrument Type: Handheld scalar network analyzer Instrument Type: Handheld scalar network analyzer Measurement Modes: Scalar transmission and reflection class Dynamic Range Class: Scalar analyzer dynamic range class Series Family: Anritsu S251B scalar network analyzer



MODEL

Anritsu S251B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

S251B

LISTING

<https://aumictechlabs.com/products/s251b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu S251B is a broadband, two-port Site Master cable and antenna analyzer designed for field technicians and engineers. It has comprehensive measurement capabilities for the installation, maintenance, and troubleshooting of wireless communication systems, operating within the cellular, PCS/GSM, and ISM bands. Its solid design and advanced features provide accurate and reliable data essential for ensuring optimal performance of antenna and cable systems. The Anritsu S251B is characterized by its high immunity to RF interference, enabling precise measurements even in active RF environments. Its high dynamic range facilitates antenna-to-antenna isolation measurements, while selectable output levels and an optional bias tee

support Tower Mounted Amplifier (TMA) gain verification. The instrument is supported by Anritsu's Site Master Software Tools, compatible with Windows 95, 98, and NT, allowing for trace and cable parameter downloads via an RS-232 serial port. Technical Specifications *

Measurement Capabilities: * Return Loss / VSWR: Range 0 to 54 dB, Resolution 0.01 dB * Cable Loss: Range 0 to 54 dB, Resolution 0.01 dB * Insertion Loss / Gain: Range -120 to 100 dB, Resolution 0.1 dB * Distance-to-Fault (DTF): With vertical range for return loss (0 to 54 dB) and SWR (1 to 65), and horizontal range dependent on data points and resolution * Antenna-to-Antenna Isolation: Achieved through high dynamic range (>80 dB) * Tower Mounted Amplifier (TMA) Gain Verification: Supported by selectable output levels and optional built-in Bias Tee * RF Source: * Frequency Range: 625 to 2500 MHz * Frequency Resolution: 10 kHz * Power Output (Nominal): Selectable -30 dBm or +6 dBm * Performance: * Frequency Accuracy (CW mode): 75 ppm * Display Resolution: 130, 259, or 517 data points * Sweep Rate (typical, with calibration): 25 ms/data point or 40 ms/point * Interference Immunity: Up to +10 dBm (RF out), +30 dBc (RF in) *

Instrument Configuration and Memory: * User Configurations (including calibrations): 10 * Custom Cable Configurations: 50 * Trace Memory: Up to 200 measurement traces with date/time stamp and alphanumeric labeling * Software Tools Compatibility: Operates with Windows 95, 98, NT * Optional Features: * Built-in Bias Tee (Option 10A): Provides +15 VDC with 270 mA peak (25 ms) and 240 mA steady state current capability * RF Power Monitor (Option 5): Wattmeter function with display range of -80 to +80 dBm Electrical Specifications * Bias Tee (Option 10A): * Output Voltage: +15 VDC * Peak Current: 270 mA (25 ms) * Steady State Current: 240 mA * RF Power Detector (Option 5): * Display Range: -80 to +80 dBm * Power Range: 10 pW to 100 kW * Detector Range: -45 to +20 dBm, 32 nW to 100 mW * Offset Range: 0 to +60 dB Interfaces * Serial Port: RS-232, 9-pin D-sub connector, three-wire serial * Communication Parameters: 9600 baud, no parity, 8 data bits, 1 stop bit (N-8-1) Physical Characteristics * Dimensions: 25.4 × 17.8 × 6.10 cm (10 × 7 × 2.4 inches) Weight: 1.81 kg (4.0 lbs) Test Port Connector: Precision N female Maximum Input without Damage: * N(f) test port: +22 dBm * RF power detector: +20 dBm, 50 Ω

Environmental: * Operating Temperature: 0 to 50°C * Storage Temperature: -20 to 75°C Compatibility * Software: Site Master Software Tools operate with Windows 95, Windows 98, and Windows NT Printers: Compatible with Epson, Canon, Citizen, and HP printer drivers Documentation * User's Guide: Available Programming Manual: Available Maintenance Manual: Available Why Choose Aumictech for Anritsu S251B? At Aumictech, we specialize in supplying high-end cable and antenna analyzer equipment. Whether you need accurate VSWR and return loss measurements, reliable cable loss and distance-to-fault analysis, or efficient troubleshooting of wireless communication systems, our team ensures the Anritsu S251B delivers maximum performance for your application.

S251B Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Class	Up to 2.5 GHz class
Instrument Type	Handheld scalar network analyzer
Measurement Modes	Scalar transmission and reflection class
Dynamic Range Class	Scalar analyzer dynamic range class
Display	Handheld display class
RF Connectors Class	TypeNfemale class
Input Impedance	50 ohms class
Calibration	OSL field calibration class
Battery Operation	Yes
Form Factor	Handheld analyzer
Series Family	Anritsu S251B scalar network analyzer
Applications Class	Antenna and component scalar field test
Serial Connectivity Class	Trace transfer supported class
Marker Functions	Multi marker with delta class
Operating Temperature Class	Field temperature range class
Weight Class	Handheld analyzer weight
Storage	Internal trace and setup memory class
Sweep Speed Class	Field sweep class
Resolution Class	Fine frequency resolution class
Impedance	50 ohms class
Return Loss Mode	Supported class
Insertion Loss Mode	Supported class
Operating temperature	Class: Field temperature range class
Return loss	Mode: Supported class

S251B Specifications

PARAMETER	VALUE
Anritsu S251B Scalar Network Analyzer	Overview
Applications	Scalar transmission and reflection measurements on antennas and RF components to 2.5 GHz class.
OSL calibration class	Site Master related field workflow class
Technical Specifications	Frequency Range Class: Up to 2.5 GHz class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Field temperature range class
Operating Temperature	Class: Field temperature range class
Operating Temperature Class	Field temperature range class
Weight Class	Handheld analyzer weight
Storage	Internal trace and setup memory class
Sweep Speed Class	Field sweep class
Resolution Class	Fine frequency resolution class
Impedance	50 ohms class
Return Loss Mode	Supported class
Insertion Loss Mode	Supported class Notes
From Anritsu S251B OEM/family documentation (queue title	scalar network analyzer 2.5 GHz). Confirm exact start frequency and dynamic range on the unit datasheet.

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	
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PARAMETER	VALUE
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Return Loss Mode	Supported class
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Notes	
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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.