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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu S331E Site Master Handheld Cable and Antenna Analyzer; 2 MHz to 4 GHz

Frequency Resolution (RF immunity high): 100 kHz Output Power Low 2 MHz-1.5 GHz: -40 dBm typical Output Power Low greater than 1.5 GHz to 4 GHz: -30 dBm typical 2-Port Option: S331E-0021 transmission measurement Output Power Low 2 MHz-1.5 GHz: -40 dBm typical Output Power Low greater than 1.5 GHz to 4 GHz: -30 dBm typical 2-Port Option: S331E-0021 transmission measurement 2-Port Dynamic Range 2 MHz-4 GHz (high DR on): 80 dB; 95 dB typical



MODEL

Anritsu S331E

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

S331E

LISTING

<https://aumictechlabs.com/products/s331e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu S331E Site Master is a handheld cable and antenna analyzer built for field installation, maintenance, and troubleshooting of wireless communication systems. Operating from 2 MHz to 4 GHz, it delivers return loss, VSWR, cable loss, distance-to-fault analysis, and Smith Chart measurements in a single portable unit. The 8.4-inch daylight-viewable touchscreen and durable construction enable reliable operation in demanding field environments. Optional 2-port transmission measurement, spectrum analyzer, and power meter configurations extend its utility across multiple test scenarios. Technical Specifications Frequency Range: 2 MHz to 4 GHz Dynamic Range: > 95 dB (10 Hz RBW) DANL: -152 dBm (10 Hz RBW) Phase Noise: -100 dBc/Hz

max @ 10 kHz offset at 1 GHz Frequency Accuracy: $\leq \pm 2.5$ ppm @ 25 °C; $< \pm 50$ ppb with GPS enabled Resolution Bandwidth: 1 kHz (RF immunity low), 100 kHz (RF immunity high) Sweep Speed: 1 ms/data point typical; 80 dB (optional) Key Features 1-port measurements: return loss, VSWR, cable loss, distance-to-fault, phase, Smith Chart Calibration methods: OSL, InstaCal™, FlexCal™ 8.4-inch color TFT touchscreen with daylight visibility Internal memory for ~2,000 traces/setups; USB export capability Optional 2-port transmission measurement with high/low power settings for TMA gain and antenna-antenna isolation Optional spectrum analyzer (100 kHz to 4 GHz) with interference analysis, spectrogram display, RSSI, and 3D frequency/power/time visualization Optional channel scanner Optional power meter and high-accuracy power meter (50 MHz to 6 GHz, ± 0.16 dB accuracy with USB sensors) Typical Applications Cellular base station installation and commissioning Transmission line and cable fault location Antenna performance verification RF interference detection and analysis Transmitter power measurement Compatibility & Integration Supports high-accuracy USB power sensors (MA24106A, MA24108A, MA24118A) for extended power measurement capability.

Features & description

From manufacturer datasheet

Features

- Cable and antenna analyzer 2 MHz to 4 GHz

S331E Characteristics / Specifications

PARAMETER	VALUE
Model	S331E
Manufacturer	Anritsu
Instrument Type	Handheld cable and antenna analyzer (Site Master)
Frequency Range	2 MHz to 4 GHz
Frequency Accuracy	less than or equal to +/-2.5 ppm at 25 C
Frequency Resolution (RF immunity low)	1 kHz
Frequency Resolution (RF immunity high)	100 kHz
Output Power High	0 dBm typical
Output Power Low greater than 1.5 GHz to 4 GHz	-30 dBm typical 2-Port Option: S331E-0021 transmission measurement 2-Port Frequency Resolution: 10 Hz 2-Port Dynamic Range 2 MHz-4 GHz (high DR on): 80 dB; 95 dB typical
Display	8.4-inch daylight-viewable color LCD, 800 × 600
Dimensions	273 mm x 199 mm x 91 mm (10.7 × 7.8 × 3.6 in)
Weight	2.71 kg (6.0 lb)
Impedance Options	50 ohm, 75 ohm, Other (application options)
Alias	S331E; Site Master S331E
Status	Discontinued; replacement MS2085A-MS2089A class Notes Specs from Anritsu S331E / S33xE technical data sheet. Confirm installed options (21, 10, etc.) and calibration status on the unit.
Measurements	RL, VSWR, cable loss, DTF
Option 21	2-port transmission measurement
Option 10	bias-tee (with Option 21 on S331E)
Replacement path	MS2085A-MS2089A family
Return loss	/ VSWR maintenance; optional 2-port transmission and bias-tee TMA checks; contractor field RF verification to 4 GHz.

S331E Specifications

PARAMETER	VALUE
Key Features	- Cable and antenna analyzer 2 MHz to 4 GHz
Technical Specifications	Model: S331E
Notes	Specs from Anritsu S331E / S33xE technical data sheet. Confirm installed options (21, 10, etc.) and calibration status on the unit.

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	S331E
Manufacturer	Anritsu
Instrument Type	Handheld cable and antenna analyzer (Site Master)
Specifications	
PARAMETER	VALUE
Frequency Range	2 MHz to 4 GHz
Frequency Accuracy	less than or equal to +/-2.5 ppm at 25 C
Frequency Resolution (RF immunity low)	1 kHz
Frequency Resolution (RF immunity high): 100 kHz	
Output Power High: 0 dBm typical	
Output Power Low 2 MHz-1.5 GHz: -40 dBm typical	
Output Power Low greater than 1.5 GHz to 4 GHz: -30 dBm typical	
2-Port Option: S331E-0021 transmission measurement	
2-Port Frequency Resolution: 10 Hz	
2-Port Dynamic Range 2 MHz-4 GHz (high DR on): 80 dB; 95 dB typical	
Bias-Tee Option: S331E-0010 (requires Option 0021)	
Bias-Tee Voltage Range: +12 V to +32 V	
Bias-Tee Current Low/High: 250 mA / 450 mA; 1 A surge for 100 ms	
Specifications	
PARAMETER	VALUE
Display	8.4-inch daylight-viewable color LCD, 800 x 600
Dimensions	273 mm x 199 mm x 91 mm (10.7 x 7.8 x 3.6 in)
Weight	2.71 kg (6.0 lb)
Specifications	
PARAMETER	VALUE
Impedance Options	50 ohm, 75 ohm, Other (application options)

PARAMETER	VALUE
Alias	S331E; Site Master S331E
Status	Discontinued; replacement MS2085A-MS2089A class

Notes

Specs from Anritsu S331E / S33xE technical data sheet. Confirm installed options (21, 10, etc.) and calibration status on the unit.

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.