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Data Sheet

August 14, 2026

ANRITSU

Anritsu S820E Microwave Site Master Handheld Cable and Antenna Analyzer

Anritsu S820E Microwave Site Master Cable and Antenna Analyzer The Anritsu S820E Microwave Site Master is a handheld cable and antenna analyzer with frequency options covering 1 MHz to 8, 14, 20, 30, or 40 GHz. OEM product data list up to 110 dB dynamic range from 20 MHz to 40 GHz and 550 microseconds per data point for fast field measurements, with optional VNA and VVM modes. Microwave backhaul feedline commissioning, waveguide and coaxial antenna system maintenance, and field distance-to-fault localization through millimeter-wave option bands. The Anritsu S820E Microwave Site Master is a handheld cable and antenna analyzer with frequency options covering 1 MHz to 8, 14, 20, 30, or 40 GHz. OEM product data list up to 110 dB dynamic range from 20 MHz to 40 GHz and 550 microseconds per data point for fast field measurements, with optional VNA and VVM modes. Microwave backhaul feedline commissioning, waveguide and coaxial antenna system maintenance, and field distance-to-fault localization through millimeter-wave option bands. Frequency options to 8 14 20 30 or 40 GHz



MODEL

Anritsu S820E

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

S820E

LISTING

<https://aumictechlabs.com/products/s820e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu S820E Microwave Site Master is a handheld cable and antenna analyzer engineered for site-level field testing from low frequencies through microwave bands. It delivers distance-to-fault location, return-loss diagnostics, and comprehensive 1-port and 2-port measurement capabilities. Built to MIL-PRF-28800F standards for hazardous environments, the S820E combines rugged design with dynamic range and frequency resolution for demanding deployment and maintenance applications.

Technical Specifications

Frequency Coverage: 1 MHz to 8, 14, 20, 30, or 40 GHz (user-selectable option) 1 Hz frequency resolution

Dynamic Range: 110 dB (20 MHz to 40 GHz) 100 dB (up to 40 GHz)

Sweep Performance: 650 μ s/data point standard 550 μ s/data point for accelerated measurements

RF Immunity & Power: RF interference immunity up to +17 dBm High-accuracy power measurements via external USB sensors

Calibration: Coaxial modes: OSL, SOLT Waveguide modes: SSL, SSLT Temperature range: -10 °C to +55 °C (full calibration kits) Calibration window: ± 10 °C (reduces recalibration frequency)

Key Features

Measurement Modes: 1-port: Return Loss, VSWR, Cable Loss, Distance-to-Fault (DTF), Phase, Smith Chart, Impedance 2-port (standard): Transmission Measurement, 2-port Cable Loss, Swept Cable Loss

VNA Mode (Option S820E-0440): Full 4 S-Parameter capability (S11, S21, S22, S12); simultaneous dual-port measurement; configurable quad display; S2P file generation (3 formats)

Vector Voltmeter Mode (Option S820E-0441): A/B and B/A ratio; vector error-corrected reflection and transmission

Video Inspection Probe Mode: Fiber connector verification; IEC 61300-3-35 Pass/Fail testing

Typical Applications Communication link deployment, field maintenance, antenna characterization, cable fault diagnosis, and site acceptance testing across RF and microwave frequencies.

Compatibility & Integration External USB power sensors (sold separately) enable enhanced power measurement. Compatible Anritsu Video Inspection Probes support optical connector inspection.

S820E Characteristics / Specifications

PARAMETER	VALUE
Frequency Option 7	1 MHz to 20 GHz UniversalKmale ports
Dynamic Range 20 MHz To 40 GHz	110 dB
Sweep Speed	550 microseconds per data point
VNA Mode Option	Fully reversing 4 S parameter measurements
VVM Mode Option	A/B and B/A ratio capability
VIP Mode	Optical connector inspection with IEC 61300-3-35 Pass Fail standard
Instrument Type	Handheld microwave cable and antenna analyzer
Form Factor	Handheld Site Master platform
Battery Operation	Yes
Calibration	Built in hardware calibration before shipment class
USB Connectivity	Yes
Series Family	Anritsu S820E Microwave Site Master
Applications Class	Microwave backhaul and antenna system field test
Display	Handheld color display class
Impedance	50 ohms class
Storage	Internal trace and setup memory class
Operating Temperature Class	Field temperature range class
Weight Class	Handheld microwave analyzer weight
Operating temperature	Class: Field temperature range class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Field temperature range class
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Operating Temperature Class	Field temperature range class
Weight Class	Handheld microwave analyzer weight Notes From Anritsu S820E Microwave Site Master OEM product documentation. Installed frequency ceiling depends on the option key (708/714/720/730/740).

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
Frequency Option 708	1 MHz to 8 GHz TypeNfemale ports
Frequency Option 714	1 MHz to 14 GHz TypeNfemale ports
Frequency Option 720	1 MHz to 20 GHz Universalkmale ports
Frequency Option 730	1 MHz to 30 GHz Universalkmale ports
Frequency Option 740	1 MHz to 40 GHz Universalkmale ports
Dynamic Range 20 MHz To 40 GHz	110 dB
Sweep Speed	550 microseconds per data point
VNA Mode Option	Fully reversing 4 S parameter measurements
VVM Mode Option	A/B and B/A ratio capability
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Notes	
From Anritsu S820E Microwave Site Master OEM product documentation. Installed frequency ceiling depends on the option key (708/714/720/730/740).	

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.