

ANRITSU

S361E

The Anritsu S361E Site Master is a high-performance, rugged, and portable cable and antenna analyzer designed to operate over the 2 MHz to 6 GHz frequency range. Highly trusted by field technicians, wireless providers, and contractors, it simplifies installation, deployment, and maintenance of antenna systems with precise measurements, integrated calibration options, and field-proven durability.

SPECIFICATIONS

General

Interfaces	USB 2.0 Host (Type A) x2, USB 2.0 Client (Mini-B) x1, RJ45 LAN (10/100 Mbps) x1
Display	8.4 in Resistive TFT touchscreen, 800 × 600 resolution

Physical

Power Supply	100 V AC to 240 V AC, 50 Hz to 60 Hz (via AC/DC adapter); 12 V DC to 15 V DC input, 12 W typical
Operating Temperature	-10 °C to +55 °C °C
Dimensions (W×H×D)	273 mm × 199 mm × 91 mm mm
Weight	2.71 kg (6.0 lbs) kg

Frequency

Frequency Range	2 MHz to 6 GHz
Frequency Resolution	1 kHz
Frequency Accuracy	±2.5 ppm @ 25 °C
Frequency Aging	±1.0 ppm/year

Measurements and Performance

Supported Measurement Modes	Return Loss, VSWR, Cable Loss, Distance-to-Fault (DTF) Return Loss, Distance-to-Fault (DTF) VSWR, 1-Port Phase, Smith Chart (50/75 Ω)
Return Loss Range	0 to 60 dB
Return Loss Resolution	0.01 dB
VSWR Range	1 to 65
VSWR Resolution	0.01
Cable Loss Range	0 to 30 dB
Cable Loss Resolution	0.01 dB
Distance-to-Fault (DTF) Maximum Range	Up to 1500 m (4921 ft) depending on cable loss
One-Port Phase Range	-180° to +180°
Velocity Factor Range	0.000 to 1.000
On-Channel Interference Immunity	+17 dBm
On-Frequency Interference Immunity	+13 dBm

RF Port Specifications

RF Out Port Connector Type	Type N, female
RF Out Port Impedance	50 Ω
RF Out Port Maximum Input Power (Damage Level)	+23 dBm
RF Out Port Maximum DC Voltage	±50 V DC

Sweep and Triggering

Sweep Time per Data Point	1.0 ms (typical)
Sweep Points	137, 275, 551, 1102, 2204
Sweep Triggers	Single, Continuous
Limit Lines	Upper/Lower, Single/Multi-segment, Limit Envelope

Calibration and Standards

Calibration Methods	OSL (Open-Short-Load), FlexCal, InstaCal
Recommended Calibration Cycle	12 months

Display and User Interface

Display Type	Resistive TFT Color Touchscreen
Display Size	8.4 in (213 mm) diagonal
Display Resolution	800 x 600 (SVGA)
On-Screen Language Support	English, French, German, Spanish, Chinese, Japanese, Korean, Italian, Russian

Connectivity and Interfaces

USB Host Port (Type A)	2 ports, USB 2.0
USB Client Port (Type B)	1 port, Mini-B, USB 2.0
LAN / Ethernet Interface	RJ45, 10/100 Mbps
External Reference Input	10 MHz (BNC, female)

Data Storage and Software

Internal Memory Capacity	> 2000 files (traces, setups, screen captures)
External Storage Support	USB Flash Drive
PC Analysis Software	Line Sweep Tools (LST), Master Software Tools (MST)
Report Generation Formats	PDF, HTML, CSV
Pre-programmed Cable Standards Directory	Built-in list of over 100 cable types

Power Supply and Battery

AC Adapter Input Voltage Range	100 V AC to 240 V AC, 50 Hz to 60 Hz
AC Adapter Output Voltage	12 V DC to 15 V DC
Battery Type	Lithium-Ion, rechargeable
Battery Operating Time	Up to 4.0 hours
Battery Charging Time	4 hours (typical, unit off)

Environmental and Mechanical

Storage Temperature Range	-40 °C to +75 °C
Relative Humidity	95% RH, non-condensing
Shock and Vibration Compliance	MIL-PRF-28800F Class 2
Altitude Limits	4600 m (15000 ft), operating

Bias Tee (Option 10)

Bias Tee Output Voltage Range	+12 V to +32 V (Option 10 dependent)
Bias Tee Output Voltage Resolution	0.1 V (Option 10 dependent)
Bias Tee Maximum Current	450 mA (Option 10 dependent)
Bias Tee Maximum Power	8 W (Option 10 dependent)

2-Port Transmission Measurement (Option 21)

2-Port Transmission Measurement Frequency Range	2 MHz to 6 GHz (Option 21 dependent)
Dynamic Range (2 MHz to 4 GHz)	80 dB (Option 21 dependent)
Dynamic Range (4 GHz to 6 GHz)	70 dB (Option 21 dependent)

GPS Receiver (Option 31)

GPS Frequency Accuracy	< ±25 ppb (GPS on, after 3 minutes warm-up, Option 31 dependent)
GPS Antenna Connector	SMA, female (Option 31 dependent)
GPS Antenna Supply Voltage	3.3 V or 5 V (Option 31 dependent)
GPS Tracking Sensitivity	-162 dBm
GPS Acquisition Sensitivity	-148 dBm
GPS Cold Start Acquisition Time	2.5 minutes (typical)
GPS Warm Start Acquisition Time	5 seconds (typical)

CW Generator (Option 28)

CW Generator Frequency Range	2 MHz to 6 GHz (Option 28 dependent)
CW Generator Output Power	-5 dBm typical (Option 28 dependent)

High Accuracy Power Meter (Option 19)

Compatible USB Power Sensors	MA24105A, MA24106A, MA24108A, MA24118A, MA24126A, MA24208A, MA24218A (Option 19 dependent)
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RF Input Port

RF In Port Connector Type	Type N, female (Option 21 dependent)
RF In Port Impedance	50 Ω (Option 21 dependent)
RF In Port Damage Level	+23 dBm (Option 21 dependent)
RF In Port Maximum DC Voltage	±50 VDC (Option 21 dependent)

Regulatory & Compliance

Safety Compliance Standards	EN 61010-1, UL 61010-1, CAN/CSA-C22.2 No. 61010-1
EMC Compliance Standards	EN 61326-1, EN 55011, AS/NZS CISPR 11

2-Port Transmission Measurement

Load Match	≥ 42 dB (typical)
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Inputs & Outputs

External Reference Input Impedance	50 Ω
External Reference Input Frequency	10 MHz
External Reference Input Level	-10 dBm to +10 dBm
External Trigger Input Level	TTL compatible
LAN Ethernet Speed	10/100 Mbps

Power Meter (Option 19)

High Accuracy Power Meter Resolution	0.01 dB
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TECHNOLOGY

Cable and Antenna Analysis

APPLICATIONS

Antenna installation, field maintenance, troubleshooting, and sweep testing

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