

# Site Master™

## Compact Handheld Cable & Antenna Analyzer with Spectrum Analyzer

### S331E

2 MHz to 4 GHz

### S332E

2 MHz to 4 GHz  
100 kHz to 4 GHz

### S361E

2 MHz to 6 GHz

### S362E

2 MHz to 6 GHz  
100 kHz to 6 GHz

Cable & Antenna Analyzer  
Spectrum Analyzer

### Introduction

Anritsu introduces its eighth generation compact handheld Cable and Antenna Analyzers with Spectrum Analyzers for installation and maintenance of wireless networks. They feature the highest performance and the most capabilities ever offered by Anritsu in a compact handheld tester since introducing its first line sweeper in 1995.

#### Cable and Antenna Analyzer Highlights

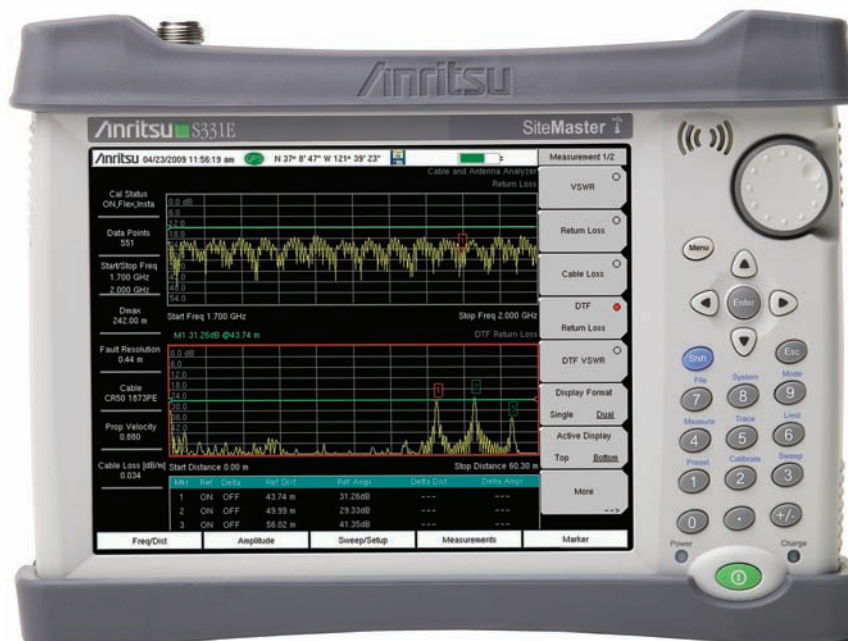
- Measurements: RL, VSWR, Cable Loss, DTF, Phase
- 2-port Transmission Measurement: High/Low Power
- Sweep Speed: 1 msec/data point, typical
- Display: Single or Dual Measurement Touchscreen
- Calibration: OSL, InstaCal™, and FlexCal™
- Bias Tee: 32 V internal

#### Spectrum and Interference Analyzer Highlights

- Measurements: Occupied Bandwidth, Channel Power, ACPR, C/I
- Interference Analyzer: Spectrogram, Signal Strength, RSSI, Signal ID, Interference Mapping
- Dynamic Range: > 95 dB in 10 Hz RBW
- DANL: -152 dBm in 10 Hz RBW
- Phase Noise: -100 dBc/Hz max @ 10 kHz offset at 1 GHz
- Frequency Accuracy: < ± 50 ppb with GPS On

#### Capabilities and Functional Highlights

- 4 hour battery operation time
- Store 2000 Traces internally
- Touchscreen keyboard
- Quick Name Matrix
- PIM Analyzer
- AM / FM / PM Analyzer
- High Accuracy Power Meter
- 4, 6, 8, 18, 26 GHz USB Sensors
- On-Screen Interference Mapping
- On-Screen Coverage Mapping
- GPS tagging of saved traces
- USB & Optional Ethernet (Option 0411) for data transfer and instrument control
- Increase throughput by automating repetitive or operator intensive tasks via Ethernet or USB. Remote programming provided via Ethernet (Option 0411)
- < 5 minute warm-up time
- E-Learning Training
- Certified Line Sweep Training
- Line Sweep Tools



Site Master™ S331E Cable & Antenna Analyzer featuring 8.4" Daylight Viewable Touchscreen  
Compact Size: 273 mm x 199 mm x 91 mm (10.7 in x 7.8 in x 3.6 in), Lightweight: 2.71 kg (6.0 lbs)

# Site Master™ S331E, S332E, S361E, S362E Specifications



## Cable and Antenna Analyzer

Measurements		
Measurements		VSWR
		Return Loss
		Cable Loss
		Distance-to-Fault (DTF) Return Loss
		Distance-to-Fault (DTF) VSWR
		1-Port Phase
		Smith Chart
Setup Parameters		
Measurement Display		Single/Dual Measurement Display with independent markers
Frequency		Start/Stop, Signal Standard, Start Cal
DTF		Start/Stop, DTF Aid, Units (m/ft), Cable Loss, Propagation Velocity, Cable, Windowing
Windowing		Rectangular, Normal Side Lobe, Low Side Lobe, Minimum Side Lobe
Amplitude		Top, Bottom, Auto Scale, Full Scale
Sweep		Run/Hold, Single/Continuous, RF Immunity (High/Low), Data Points, Averaging/Smoothing, Output Power (High/Low)
Data Points		137, 275, 551, 1102, 2204
Markers		Markers 1-6 (On/Off), Delta Markers 1-6 (On/Off), Marker to Peak/Valley, Marker Table
Traces		Recall, Copy to Display Memory, No Trace Math, Trace $\pm$ Memory, Trace Overlay
Limit Line		On/Off, Single Limit, Multi-segment (41), Limit Alarm, Clear
Calibration		Start Cal, Cal Type (Standard/FlexCal™)
Save/Recall		Setups, Measurements (.vna, .dat), Screen Shots Jpeg (save only)
Application Options		Bias-Tee (On/Off), Impedance (50 $\Omega$ , 75 $\Omega$ , Other)
Frequency		
Frequency Range		2 MHz to 4 GHz (S331E, S332E), 2 MHz to 6 GHz (S361E, S362E)
Frequency Accuracy		$\leq \pm 2.5$ ppm @ 25 °C
Frequency Resolution		1 kHz, (RF immunity low) 100 kHz, (RF immunity high)
Output Power		
	High	0 dBm, typical
	Low	-30 dBm, typical
Interference Immunity		
	On-Channel	+17 dBm @ > 1.0 MHz from carrier frequency
	On-Frequency	0 dBm within $\pm 10$ kHz of the carrier frequency
Measurement Speed		
	Return Loss	$\leq 1.00$ msec/data point, RF immunity low, typical
	Distance-to-Fault	$\leq 1.25$ msec/data point, RF immunity low, typical
Return Loss		
	Measurement Range	0 to 60 dB
	Resolution	0.01 dB
VSWR		
	Measurement Range	1 to 65
	Resolution	0.01
Cable Loss		
	Measurement Range	0 to 30 dB
	Resolution	0.01 dB
Distance-to-Fault		
	Vertical Range Return Loss	0 to 60 dB
	Vertical Range VSWR	1 to 65
	Fault Resolution (meters)	$(1.5 \times 10^9 \times vp) / \Delta F$ (vp = velocity propagation constant, $\Delta F$ is F2-F1 in Hz)
	Horizontal Range (meters)	0 to (Data Points-1) x Fault Resolution, to a maximum of 1500 meters (4921 ft)
1-Port Phase		
	Measurement Range	-180° to +180°
	Resolution	0.01°
Smith Chart		
	Resolution	0.01

# Site Master™ S331E, S332E, S361E, S362E Specifications

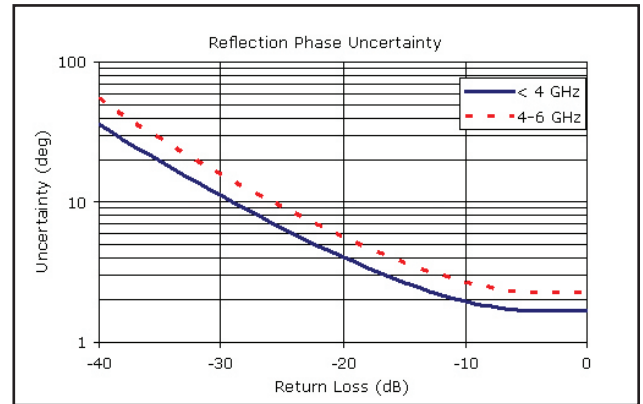
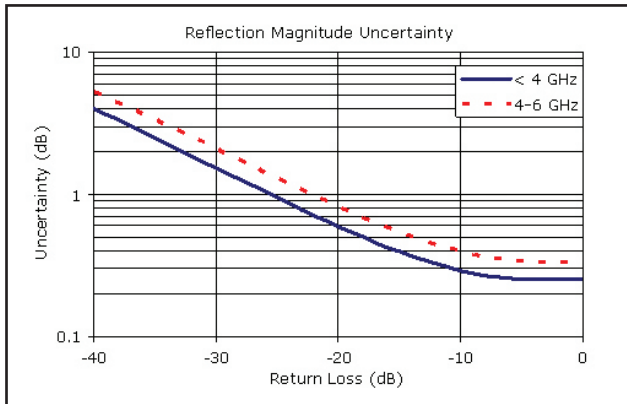


## Cable and Antenna Analyzer (continued)

### Measurement Accuracy

Corrected Directivity > 42 dB, OS� Calibration  
> 38 dB, InstaCal™ Calibration

### Measurement Uncertainty



## Optical Distance-to-Fault Module (P/N ODTF-1)

Wavelength	1550 nm, typical
Fiber Type	Single Mode Fiber
Event Resolution	10.2 cm (0.335 ft) maximum, or 150 / (n*ΔF), ΔF in MHz, n is IOR
Horizontal Range	1020 meter (3345 ft) maximum, or (#dp-1) *Event Resolution
Optical Dynamic Range	30 dB
Optical Output Power	3 dBm, typical
RF Connector	N(m)
Optical Connector	FC/APC
Datasheet	11410-00478 (for complete specifications)



## PIM Analyzer (Option 0419) (Requires PIM Master™)

See Product Brochure 11410-00546



## 2-Port Transmission Measurement (Option 0021)

### Frequency

Frequency Range	2 MHz to 4 GHz (S331E, S332E), 2 MHz to 6 GHz (S361E, S362E)
Frequency Resolution	10 Hz

### Output Power

High	0 dBm, typical
Low	-30 dBm, typical

### Dynamic Range

2 MHz to 4 GHz	80 dB
4 GHz to 6 GHz	70 dB

Application Options Bias-Tee (On/Off), Impedance (50 Ω, 75 Ω, Other)

## Bias-Tee (Option 0010)

Setup	On/Off, Voltage, Current (Low/High)
Voltage Range	+12 V to +32 V
Current (Low/High)	250 mA/450 mA, 1 A surge for 100 ms
Resolution	0.1 V

# Site Master™ S331E, S332E, S361E, S362E Specifications



## Spectrum Analyzer (S332E, S362E)

Measurements		
Smart Measurements		Field Strength (uses antenna calibration tables to measure dBm/m <sup>2</sup> or dBmV/m) Occupied Bandwidth (measures 99% to 1% power channel of a signal) <b>Channel Power</b> (measures the total power in a specified bandwidth) ACPR (adjacent channel power ratio) AM/FM/SSB Demodulation (wide/narrow FM, USB and LSB), (audio out only) C/I (carrier-to-interference ratio) Emission Mask Coverage Mapping (requires Option 0431)
Setup Parameters		
Frequency		Center/Start/Stop, Span, Frequency Step, Signal Standard, Channel #, Channel Increment
Amplitude		Reference Level (RL), Scale, Attenuation Auto/Level, RL Offset, Pre-Amp On/Off, Detection
Span		Span, Span Up/Down (1-2-5), Full Span, Zero Span, Last Span
Bandwidth		RBW, Auto RBW, VBW, Auto VBW, RBW/VBW, Span/RBW
File		Save, Recall, Delete, Directory Management
Save/Recall		Setups, Measurements, Limit Lines, Screen Shots Jpeg (save only), Save-on-Event
Save-on-Event		Crossing Limit Line, Sweep Complete, Save-then-Stop, Clear All
Delete		Selected File, All Measurements, All Mode Files, All Content
Directory Management		Sort Method (Name/Type/Date), Ascend/Descend, Internal/USB, Copy, Format USB
Application Options		<b>Bias-Tee (On/Off), Impedance (50 Ω, 75 Ω, Other)</b>
Sweep Functions		
Sweep		Single/Continuous, Sweep Mode (Fast, Performance, No FFT), Reset, Detection, Minimum Sweep Time, Trigger Type, Gated Sweep (see Option 0090)
Detection		Peak, RMS, Negative, Sample, Quasi-peak
Triggers		Free Run, External, Video, Change Position, Manual
Trace Functions		
Traces		Up to three Traces (A, B, C), View/Blank, Write/Hold, Trace A/B/C Operations
Trace A Operations		Normal, Max Hold, Min Hold, Average, # of Averages, (always the live trace)
Trace B Operations		A → B, B ←→ C, Max Hold, Min Hold
Trace C Operations		A → C, B ←→ C, Max Hold, Min Hold, A - B → C, B - A → C, Relative Reference (dB), Scale
Marker Functions		
Markers		Markers 1-6 each with a Delta Marker, or Marker 1 Reference with Six Delta Markers, Marker Table (On/Off), All Markers Off
Marker Types		Style (Fixed/Tracking), Noise Marker, Frequency Counter Marker
Marker Auto-Position		Peak Search, Next Peak (Right/Left), Peak Threshold %, Set Marker to Channel, Marker Frequency to Center, Delta Marker to Span, Marker to Reference Level
Marker Table		1-6 markers frequency and amplitude plus delta markers frequency amplitude and offset
Limit Line Functions		
Limit Lines		Upper/Lower, On/Off, Edit, Move, Envelope, Advanced, Limit Alarm, Default Limit
Limit Line Edit		Frequency, Amplitude, Add Point, Add Vertical, Delete Point, Next Point Left/Right
Limit Line Move		To Current Center Frequency, By dB or Hz, To Marker 1, Offset from Marker 1
Limit Line Envelope		Create Envelope, Update Amplitude, Points (41 max), Offset, Shape Square/Slope
Limit Line Advanced		Type (Absolute/Relative), Mirror, Save/Recall
Frequency		
Frequency Range		100 kHz to 4 GHz (S332E), 100 kHz to 6 GHz (S362E) (usable to 0 Hz)
Tuning Resolution		1 Hz
Frequency Reference		Aging: ± 1.0 ppm/year Accuracy: ± 1.5 ppm (25 °C ± 25 °C) + aging, < ± 50 ppb with GPS On
Frequency Span		10 Hz to 4 GHz including zero span (S332E), 10 Hz to 6 GHz including zero span (S362E)
Sweep Time		Minimum 100 ms, 10 μs to 600 seconds in zero span
Sweep Time Accuracy		± 2% in zero span
Bandwidth		
Resolution Bandwidth (RBW)		10 Hz to 3 MHz in 1–3 sequence ± 10% (1 MHz max in zero-span) (–3 dB bandwidth)
Video Bandwidth (VBW)		1 Hz to 3 MHz in 1–3 sequence (–3 dB bandwidth) (auto or manually selectable)
RBW with Quasi-Peak Detection		200 Hz, 9 kHz, 120 kHz (–6 dB bandwidth)
VBW with Quasi-Peak Detection		Auto VBW is On, RBW/VBW = 1

# Site Master™ S331E, S332E, S361E, S362E Specifications



## Spectrum Analyzer (S332E, S362E) (continued)

Spectral Purity		SSB Phase Noise @ 1 GHz		-100 dBc/Hz, -110 dBc/Hz typical @ 10 kHz offset -105 dBc/Hz, -112 dBc/Hz typical @ 100 kHz offset -115 dBc/Hz, -121 dBc/Hz typical @ 1 MHz offset	
Amplitude Ranges		Dynamic Range		> 95 dB (2.4 GHz), 2/3 (TOI-DANL) in 10 Hz RBW	
		Measurement Range		DANL to +26 dBm	
		Display Range		1 to 15 dB/div in 1 dB steps, ten divisions displayed	
		Reference Level Range		-120 dBm to +30 dBm	
		Attenuator Range		0 to 55 dB, 5.0 dB steps	
		Maximum Continuous Input		+35 dBm	
		Amplitude Units		Log Scale Modes: dBm, dBV, dBmv, dBμV Linear Scale Modes: nV, μV, mV, V, kV, nW, μW, mW, W, kW	
Amplitude Accuracy		100 kHz to 4.0 GHz		± 1.25 dB, ± 0.5 dB typical	
		> 4.0 GHz to 6 GHz		± 1.50 dB, ± 0.5 dB typical	
Displayed Average Noise Level (DANL)					
		Preamp Off (Reference level -20 dBm)		Preamp On (Reference level -50 dBm)	
(RBW Normalized to 1 Hz, 0 dB attenuation)		Maximum	Typical	Maximum	Typical
10 MHz to 2.4 GHz		-141 dBm	-146 dBm	-157 dBm	-162 dBm
> 2.4 GHz to 4 GHz		-137 dBm	-141 dBm	-154 dBm	-159 dBm
> 4 GHz to 5 GHz		-134 dBm	-138 dBm	-150 dBm	-155 dBm
> 5 GHz to 6 GHz		-126 dBm	-131 dBm	-143 dBm	-150 dBm
(RBW = 10 Hz, 0 dB attenuation)					
10 MHz to 2.4 GHz		-131 dBm	-136 dBm	-147 dBm	-152 dBm
> 2.4 GHz to 4 GHz		-127 dBm	-131 dBm	-144 dBm	-149 dBm
> 4 GHz to 5 GHz		-124 dBm	-128 dBm	-140 dBm	-145 dBm
> 5 GHz to 6 GHz		-116 dBm	-121 dBm	-133 dBm	-140 dBm
Spurs		Residual Spurious < -90 dBm (RF input terminated, 0 dB input attenuation, > 10 MHz)			
		Input-Related Spurious < -75 dBc (0 dB attenuation, -30 dBm input, span < 1.7 GHz, carrier offset > 4.5 MHz)			
		Exceptions, typical < -70 dBc @ < 2.5 GHz, with 2072.5 MHz Input			
		< -68 dBc @ F1-280 MHz with F1 Input			
		< -70 dBc @ F1 + 190.5 MHz with F1 Input			
		< -52 dBc @ 7349 - 2F2 MHz, with F2 Input, where F2 < 2424.5 MHz			
		< -55 dBc @ 190.5 ± F1/2 MHz, F1 < 1 GHz			
Third-Order Intercept (TOI)		Preamp Off (-20 dBm tones 100 kHz apart, 10 dB attenuation)			
		800 MHz	+16 dBm		
		2400 MHz	+20 dBm		
		200-2200 MHz	+25 dBm, typical		
		> 2.2 GHz to 5.0 GHz	+28 dBm, typical		
		> 5.0 GHz to 6.0 GHz	+33 dBm, typical		
Second Harmonic Distortion		Preamp Off, 0 dB input attenuation, -30 dBm input			
		50 MHz	-56 dBc		
		> 50 MHz to 200 MHz	-60 dBc, typical		
		> 200 MHz to 3000 MHz	-70 dBc, typical		
VSWR		2:1, typical			

# Site Master™ S331E, S332E, S361E, S362E Specifications



## Coverage Mapping (Options 0431)

### Measurements

Indoor Mapping	Outdoor Mapping
RSSI	RSSI
ACPR	ACPR

### Setup Parameters

Frequency	Center/Start/Stop, Span, Freq Step, Signal Standard, Channel #, Channel Increment
Amplitude	Reference Level (RL), Scale, Attenuation Auto/Level, RL Offset, Pre-Amp On/Off, Detection
Span	Span, Span Up/Down (1-2-5), Full Span, Zero Span, Last Span
BW	RBW, Auto RBW, VBW, Auto VBW, RBW/VBW, Span/VBW
Measurement Setup	ACPR, RSSI
Point Distance / Time Setup	Repeat Type Time Distance
Save Points Map	Save KML, JPEG, Tab Delimited
Recall Points Map	Recall Map, Recall KML Points only, Recall KML Points with Map, Recall Default Grid



## Interference Analyzer (Option 0025)

Measurements	Spectrum Field Strength Occupied Bandwidth Channel Power Adjacent Channel Power (ACPR) AM/FM/SSB Demodulation (Wide/Narrow FM, Upper/Lower SSB), (audio out only) Carrier-to-Interference ratio (C/I) Spectrogram (Collect data up to 72 hours) Signal Strength (Gives visual and aural indication of signal strength) Received Signal Strength Indicator (RSSI) (collect data up to one week) Gives visual and aural indication of signal strength Signal ID (up to 12 signals) Center Frequency Bandwidth Signal Type (FM, GSM, W-CDMA, CDMA, Wi-Fi) Closest Channel Number Number of Carriers Signal-to-Noise Ratio (SNR) > 10 dB Interference Mapping Triangulate location of interference with on display maps
Application Options	Bias-Tee (On/Off), Impedance (50 Ω, 75 Ω, Other)

## GPS Receiver Option (Option 0031) (Antenna sold separately, P/N 2000-1528-R)

Setup	On/Off, Antenna Voltage 3.3/5.0 V, GPS Info
GPS Time/Location Indicator	Time, Latitude, Longitude and Altitude on display Time, Latitude, Longitude and Altitude with trace storage
High Frequency Accuracy when GPS Antenna is connected	Spectrum Analyzer, Interference Analyzer, CW Signal Analyzers < ± 50 ppb with GPS On, 3 minutes after satellite lock in selected mode
Connector	SMA, Female

# Site Master™ S331E, S332E, S361E, S362E Specifications



## Channel Scanner (Option 0027) (S332E, S362E)

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Number of Channels	1 to 20 Channels (Power Levels)
Measurements	Graph/Table, Max Hold (On/5 sec/Off), Freq/Channel, Current/Max, Single/Dual Color
Scanner	Scan Channels, Scan Frequencies, Scan Customer List, Scan Script Master™
Amplitude	Reference Level, Scale
Custom Scan	Signal Standard, Channel, # of Channels, Channel Step Size, Custom Scan
Frequency Range	100 kHz to 4 GHz (S332E), 100 kHz to 6 GHz (S362E)
Frequency Accuracy	± 10 Hz + Time base error
Measurement Range	-110 dBm to +26 dBm
Application Options	Bias-Tee (On/Off), Impedance (50 Ω, 75 Ω, Other)

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## CW Signal Generator Option (Option 0028) (S332E, S362E) (Requires CW Signal Generator Kit, P/N 69793)

### Setup Parameters

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Frequency	Frequency, Signal Standard, Channel Number, Display Setup Help
Amplitude	Power Level (Low/High), Offset (dB)
Frequency Range	2 MHz to 2 GHz
Frequency Reference	Accuracy: ± 1.5 ppm (25 °C ± 25 °C) + aging, < ± 50 ppb with GPS On
Output Power	High 0 dBm typical, Low -30 dBm typical Attenuator (included in kit 69793): 0 dB to 90 dB in 1 dB steps

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## Gated Sweep (Option 0090) (S332E, S362E)

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Mode	Spectrum Analyzer, Sweep
Trigger	External TTL
Setup	Gated Sweep (On/Off) Gate Polarity (Rising, Falling) Gate Delay (0 to 65 ms typical) Gate Length (1 μs to 65 ms typical) Zero Span Time

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## Ethernet Connectivity (Option 0411) S331E, S332E, S361E, S362E

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Connector	RJ45
LAN Speed	10 Mbps
Mode	Static, DHCP
Static IP settings	IP address Subnet Mask IP Gateway
Remote Control	Remote Access utility provided with Master Software Tools
Data Upload	With Line Sweep Tools through LAN connection

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# Site Master™ S331E, S332E, S361E, S362E Specifications



## Power Meter (Option 0029) (S332E, S362E)

Frequency	Center/Start/Stop, Span, Frequency Step, Signal Standard, Channel #, Full Band
Amplitude	Maximum, Minimum, Offset, Relative On/Off, Units, Auto Scale
Average	Acquisition Fast/Med/Slow, # of Running Averages
Limits	Limit On/Off, Limit Upper/Lower
Frequency Range	10 MHz to 4 GHz (S332E), 10 MHz to 6 GHz (S362E)
Span	1 kHz to 100 MHz
Display Range	-140 dBm to +30 dBm, ≤ 40 dB span
Measurement Range	-120 dBm to +26 dBm
Offset Range	0 to +100 dB
VSWR	2:1 typical
Maximum Continuous Input	+35 dBm without attenuator
Accuracy	Same as Spectrum Analyzer
Application Options	Impedance (50 Ω, 75 Ω, Other)



## High Accuracy Power Meter (Option 0019) (Requires external USB Power Sensor(s))

Amplitude	Maximum, Minimum, Offset, Relative On/Off, Units, Auto Scale
Average	# of Running Averages, Max Hold
Zero/Cal	Zero On/Off, Cal Factor (Center Frequency, Signal Standard)
Limits	Limit On/Off, Limit Upper/Lower

Power Sensor Model	PSN50	MA24104A	MA24106A	MA24108/18/26A
Description	High Accuracy RF Power Sensor	Inline High Power Sensor	High Accuracy RF Power Sensor	Microwave USB Power Sensor
Frequency Range	50 MHz to 6 GHz	600 MHz to 4 GHz	50 MHz to 6 GHz	10 MHz to 8 GHz (MA24108A) 10 MHz to 18 GHz (MA24118A) 10 MHz to 26 GHz (MA24126A)
Connector	Type N(m), 50 Ω	Type N(m), 50 Ω	Type N(m), 50 Ω	Type N(m), 50 Ω (MA24108/18A) Type K(m), 50 Ω (MA24126A)
Dynamic Range	-30 to +20 dBm (.001 to 100 mW)	+3 to +51.76 dBm (2 mW to 150 W)	-40 to +23 dBm (0.1 μW to 200 mW)	-40 to +20 dBm (0.1 μW to 100 mW)
VBW	100 Hz	100 Hz	100 Hz	50 kHz
Measurand	True-RMS	True-RMS	True-RMS	True-RMS, Slot Power, Burst Average Power
Measurement Uncertainty	± 0.16 dB <sup>1</sup>	± 0.17 dB <sup>2</sup>	± 0.16 dB <sup>1</sup>	± 0.18 dB <sup>3</sup>
Datasheet (for complete specifications)	11410-00414	11410-00483	11410-00424	11410-00504

- Notes:
- 1) Total RSS measurement uncertainty (0 °C to 50 °C) for power measurements of a CW signal greater than -20 dBm with zero mismatch errors.
  - 2) Expanded uncertainty with K=2 for power measurements of a CW signal greater than +20 dBm with a matched load. Measurement results referenced to the input side of the sensor.
  - 3) Expanded uncertainty with K=2 for power measurements of a CW signal greater than -20 dBm with zero mismatch errors.



# Site Master™ S331E, S332E, S361E, S362E Specifications



## AM/FM/PM Signal Analyzers (Option 0509) (S332E, S362E)

### Measurements

	RF Spectrum AM/FM/PM	Audio Spectrum (AM)	Audio Spectrum (FM/PM)	Audio Waveform (AM)	Audio Waveform (FM/PM)	Summary (AM)	Summary (FM/PM)
Graphic Display	Power (dBm) vs. Frequency	Depth (%) vs. Modulation Frequency	Deviation (kHz/rad) vs. Modulation Frequency	Depth (%) vs. Time	Deviation (kHz/rad) vs. Time	None	None
Numerical Displays	Carrier Power Carrier Frequency Occupied Bandwidth	AM Rate RMS Depth (Pk-PK)/2 Depth SINAD* THD* Distortion/Total Vrms*	FM/PM Rate RMS Deviation (Pk-PK)/2 Deviation SINAD* THD* Distortion/Total Vrms*	AM Rate RMS Depth (Pk-PK)/2 Depth SINAD* THD* Distortion/Total Vrms*	FM/PM Rate RMS Depth (Pk-PK)/2 Depth SINAD* THD* Distortion/Total Vrms*	RMS Depth (AM) Peak + Depth Peak – Depth (Pk-PK)/2 Depth Carrier Power Carrier Frequency Occupied Bandwidth AM Rate SINAD* THD* Distortion/Total Vrms*	RMS Deviation (FM/PM) Peak + Depth Peak – Depth (Pk-PK)/2 Depth Carrier Power Carrier Frequency Occupied Bandwidth AM Rate SINAD* THD* Distortion/Total Vrms*

### Setup Parameters

Frequency	Center Freq, Span, Freq Step, Signal Standard, Channel, Channel Increment, Set Carrier Freq
Amplitude	Scale, Power Offset, Adjust Range
Setup	Demod Type (AM, FM, PM), IFBW, Auto IFBW
Measurements	RF Spectrum AM/FM/PM, Audio Spectrum (AM/FM/PM), Audio Waveform (AM/FM/PM), Summary (AM/FM/PM), Average
Marker	On/Off, Delta, Peak Search, Marker Freq to Center, Marker to Ref Lvl, Marker Table, All Markers Off

### Specifications

AM	Modulation Rate: $\pm 1$ Hz (< 100 Hz), $\pm 2\%$ (> 100 Hz) Depth: $\pm 5\%$ for (Modulation rates 10 Hz to 100 kHz)
FM	Modulation Rate: $\pm 1$ Hz (< 100 Hz); $\pm 2\%$ (100 Hz to 100 kHz) Deviation Accuracy: $\pm 5\%$ (100 Hz to 100 kHz)**
PM	Modulation Rate: $\pm 1$ Hz (< 100 Hz); $\pm 2\%$ (100 Hz to 100 kHz) Deviation Accuracy: $\pm 5\%$ (deviation 0 to 93 Rad, rate 10 Hz to 5 kHz)**
IF bandwidth	1 to 300 kHz in 1-3 sequence
Frequency Span	RF Spectrum: 10 kHz to 10 MHz Audio Spectrum: 2, 5, 10, 20 kHz
RBW/VBW	30
Span/RBW	100
Sweep time	50 $\mu$ s to 50 ms (Audio Waveform)

\*Requires Sinewave modulation

\*\*IFBW must be greater than 95% occupied BW

# Site Master™ S331E, S332E, S361E, S362E Specifications

## General Specifications

All specifications and characteristics apply under the following conditions, unless otherwise stated: 1) After 5 minutes of warm-up time, where the instrument is left in the ON state; 2) All specifications apply when using internal reference; 3) All specifications subject to change without notice; 4) Typical performance is the measured performance of an average unit; 5) Recommended calibration cycle is 12 months; 6) Performance Sweep Mode.

### Setup Parameters

System	Status (Temperature, Battery Info, Serial Number, Firmware Version, Options Installed) Self Test, Application Self Test GPS (see Option 0031)
System Options	Name, Date and Time, Volume, Display (Brightness, Default Colors, Black & White, Night Vision, High Contrast), Language (English, French, German, Spanish, Chinese, Japanese, Korean, Italian, User defined) Reset (Factory Defaults, Master Reset, Update Firmware)
File	Save, Recall, Delete, Directory Management
Save/Recall	Setups, Measurements, Screen Shots Jpeg (save only)
Delete	Selected File, All Measurements, All Mode Files, All Content
Directory Management	Sort Method (Name/Type/Date), Ascend/Descend, Internal/USB, Copy, Format USB
Internal Trace/Setup Memory	2,000 traces, 2,000 Setups
External Trace/Setup Memory	Limited by size of USB Flash drive
Mode Switching	Auto-Stores/Recalls most recently used Setup Parameters in the Mode

### Connectors

RF Out	Type N, female, 50 Ω (Reflection In)
RF Out Damage Level	23 dBm, ± 50 VDC (Option 21 only)
RF In	Type N, female, 50 Ω
RF In Damage Level	+35 dBm peak, ± 50 VDC, Maximum Continuous Input (≥ 10 dB attenuation)
GPS	SMA(f)
External Power	5.5 mm barrel connector, 12.5 VDC to 15 VDC, < 4.0 Amps
USB Interface (2)	Type A, Connect USB Flash Drive and Power Sensor
USB Interface	5-pin mini-B, Connect to PC for data transfer
Ethernet Interface	RJ45 connector for Ethernet 10-Base T (Available with Option 0411 Ethernet)
Headset Jack	2.5 mm mini-phone plug
External Reference In	BNC, female, 50 Ω, Maximum Input +10 dBm 1 MHz, 5 MHz, 10 MHz, 13 MHz
External Trigger/Clock Recovery	BNC, female, 50 Ω, Maximum Input ± 50 VDC

### Display

Type	Resistive Touchscreen
Size	8.4" daylight viewable color LCD
Resolution	800 x 600

### Battery

Type	Li-Ion
Battery Operation	4.0 hours, typical (S331E, S361E) 3.0 hours, typical (S332E, S362E)

### Electromagnetic Compatibility

European Union	CE Mark, EMC Directive 2004/108/EC Low Voltage Directive 2006/95/EC
Australia and New Zealand	C-tick N274
Interference	EN 61326-1
Emissions	EN 55011
Immunity	EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-11

### Safety

Safety Class	EN 61010-1 Class 1
Product Safety	IEC 60950-1 when used with Company supplied Power Supply

### Environmental

Operating Temperature	-10 °C to 55 °C
Maximum Humidity	95% RH (none condensing) at 40 °C
Shock	MIL-PRF-28800F Class 2
Storage	-40 °C to 71 °C
Altitude	4600 meters, operating and non-operating

### ESD

RF Port Center Pin	Withstands up to ± 15 kV
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### Size and Weight

Size	273 mm x 199 mm x 91 mm, (10.7 in x 7.8 in x 3.6 in)
Weight	2.71 kg, (6.0 lbs), (S331E, S361E) 3.71 kg, (8.2 lbs), (S332E, S362E)

# Site Master™ S331E, S332E, S361E, S362E Specifications

## Line Sweep Tools (for your PC)

Trace Capture		
Browse to Instrument	View and copy traces from the test equipment to your PC using Windows Explorer	
Open legacy files	Open DAT files captured with Hand Held Software Tools v6.61	
Open Current files	Open VNA or DAT files	
Capture plots to:	The Line Sweep Tools screen, DAT files, Database, or JPEG	
Traces		
Trace Types	Return Loss, VSWR, DTF-RL, DTF-VSWR, Cable Loss, Smith Chart, and PIM	
Trace formats	DAT, VNA, CSV, PNG, BMP, JPG, HTML, Data Base, and PDF	
Report Generation		
Report Generator	Includes GPS location along with measurements	
Report Format	Create reports in HTML or PDF format	
Report setup	Report Title, Company, Prepared for, Location, Date and Time, Filename, Company logo	
Trace Setup	1 trace Portrait Mode, 2 Trace Portrait Mode, 1 Trace Landscape Mode	
Trace Validation		
Presets	7 presets allow "one click" setting of up to 6 markers and one limit line	
Marker Controls	6 regular Markers, Marker Peak, Marker valley, Marker between, and frequency entry	
Delta Markers	6 Delta markers	
Limit Line	Enable and drag or value entry. Also works with presets	
Next Trace Button	Next Trace and Previous trace arrow keys allow quick switching between traces	
Tools		
Cable Editor	Allows creation of custom cable parameters	
Distance to Fault	Converts a Return Loss trace to a Distance to Fault trace	
Measurement Calculator	Converts Real, Imaginary, Magnitude, Phase, RL, VSWR, Rho, and Transmit power	
Signal Standard Editor	Creates new band and channel tables	
Renaming Grid	36 user definable phrases for creation of file names, trace titles, and trace subtitles	
Connectivity		
Connections	Ethernet, USB cable, USB Memory Stick, and RS-232 Serial Null Modem cable	

## Master Software Tools (for your PC)

Mapping (GPS Required)		
Spectrum Analyzer Mode	MapInfo, MapPoint	
Mobile WiMAX OTA, LTE OTA Options	Google Earth, Google Maps, MapInfo	
Folder Spectrogram (Spectrum Monitoring for Interference Analysis and Spectrum Clearing)		
Folder Spectrogram – 2D View	Creates a composite file of multiple traces Peak Power, Total Power, Peak Frequency, Histogram, Average Power (Max/Min) File Filter (Violations over limit lines or deviations from averages) Playback	
Video Folder Spectrogram – 2D View	Create AVI file to export for management review/reports	
Folder Spectrogram – 3D View	Views (Set Threshold, Markers) - 3D (Rotate X, Y, Z Axis, Level Scale, Signal ID) - Playback (Frequency and/or Time Domain)	
List/Parameter Editors		
Traces	Add, delete, and modify limit lines and markers	
Product Updates	Auto-checks Anritsu website for latest revision firmware	
Firmware Upload	Upload new firmware into the instrument	
Pass/Fail	Create, download, or edit Signal Analysis Pass/Fail Limits	
Languages	Add up to two languages or modify non-English language menus	
Script Master™		
Channel Scanner Mode	Automate scan up to 1200 channels, repeat for sets of 20 channels, repeat all channels	
GSM/GPRS/EDGE or W-CDMA/HSDPA Mode	Automate Signal Analysis testing requirements with annotated how-to pictures	
Connectivity		
Connections	Connect to PC using USB, Ethernet, or Serial, depending on the instrument	
Firmware Updates	Product Update: download latest firmware version	
Remote Operation	Operate unit remotely with MST Remote Access Tool	

# Site Master™ S331E, S332E, S361E, S362E Specifications

## Ordering Information – Options

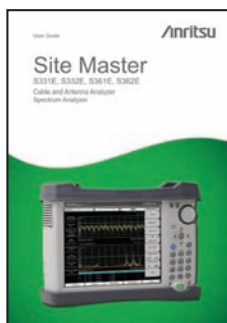
	S331E	S332E	S361E	S362E	Description
	2 MHz to 4 GHz	2 MHz to 4 GHz 100 kHz to 4 GHz	2 MHz to 6 GHz	2 MHz to 6 GHz 100 kHz to 6 GHz	Cable and Antenna Analyzer Spectrum Analyzer
	Options	Options S332E-0419	Options	Options S362E-0419	PIM Analyzer (requires PIM Master)
	S331E-0021 S331E-0010	S332E-0021 S332E-0010	S361E-0021 S361E-0010	S362E-0021 S362E-0010	2-Port Transmission Measurement Bias-Tee (requires Option 0021 for S331E /S361E)
	S331E-0031 S331E-0019	S332E-0031 S332E-0019	S361E-0031 S361E-0019	S362E-0031 S362E-0019	GPS Receiver (requires Antenna P/N 2000-1528-R) High-Accuracy Power Meter (requires External Power Sensor) Power Meter
		S332E-0025 S332E-0027		S362E-0025 S362E-0027	Interference Analyzer (Option 0031 recommended) Channel Scanner
		S332E-0431		S362E-0431	Coverage Mapping (requires Option 0031)
		S332E-0090 S332E-0028		S362E-0090 S362E-0028	Gated Sweep C/W Signal Generator (requires CW Signal Generator Kit, P/N 69793)
		S332E-0509		S362E-0509	AM/FM/PM Analyzer
	S331E-0411	S332E-0411	S361E-0411	S362E-0411	Ethernet Connectivity
	S331E-0098	S332E-0098	S361E-0098	S362E-0098	Standard Calibration (ANSI 2540-1-1994)
	S331E-0099	S332E-0099	S361E-0099	S362E-0099	Premium Calibration to Z540 plus test data

## Power Sensors (For complete ordering information see the respective datasheets of each sensor)



Model Number	Description
PSN50	High Accuracy RF Power Sensor, 50 MHz to 6 GHz, +20 dBm
MA24104A	Inline High Power Sensor, 600 MHz to 4 GHz, +51.76 dBm
MA24106A	High Accuracy RF Power Sensor, 50 MHz to 6 GHz, +23 dBm
MA24108A	Microwave USB Power Sensor, 10 MHz to 8 GHz, +20 dBm
MA24118A	Microwave USB Power Sensor, 10 MHz to 18 GHz, +20 dBm
MA24126A	Microwave USB Power Sensor, 10 MHz to 26 GHz, +20 dBm

## Manuals (soft copy included on Handheld Instruments Documentation Disc and at [www.anritsu.com](http://www.anritsu.com))



Part Number	Description
10920-00060	Handheld Instruments Documentation Disc
10580-00252	Site Master User Guide (Hard copy included)
10580-00241	Cable and Antenna Analyzer Measurement Guide
10580-00242	2-Port Transmission Measurement - Bias-Tee
10580-00244	Spectrum Analyzer Measurement Guide - Interference Analyzer, Channel Scanner, Gated Sweep, CW Signal Generator, AM/FM/PM Analyzer, Interference Mapping, Coverage Mapping
10580-00240	Power Meter Measurement Guide - High Accuracy Power Meter
10580-00215	ODTF-1 Optical Distance-to-Fault Module
10580-00256	Programming Manual
10580-00280	PIM Master User Guide

## Troubleshooting Guides (soft copy at [www.anritsu.com](http://www.anritsu.com))

11410-00473	Cable, Antenna and Components
11410-00551	Spectrum Analyzers
11410-00472	Interference

# Site Master™ S331E, S332E, S361E, S362E Specifications

## Standard Accessories (included with instrument)



Part Number	Description
10920-00060	Handheld Instruments Documentation Disc
10580-00252	Site Master User Guide
3-68736	Soft Carrying Case
2300-498	Master Software Tools (MST) CD Disc
2300-530	Anritsu Tool Box with Line Sweep Tools (LST) DVD Disc
633-44	Rechargeable Li-Ion Battery
40-168-R	AC-DC Adapter
806-141-R	Automotive Cigarette Lighter 12 VDC Adapter
3-2000-1498	USB A/5-pin mini-B Cable, 10 feet/305 cm
11410-00484	Site Master™ S331E, S332E, S361E, S362E Technical Data Sheet One Year Warranty (Including battery, firmware, and software) Certificate of Calibration and Conformance

## Optional Accessories

### Calibration Components, 50 Ω



Part Number	Description
ICN50B	InstaCal™ Calibration Module, 38 dB, 2 MHz to 6.0 GHz, N(m), 50 Ω
OSLN50-1	Precision Open/Short/Load, N(m), 42 dB, 6.0 GHz, 50 Ω
OSLNF50-1	Precision Open/Short/Load, N(f), 42 dB, 6.0 GHz, 50 Ω
2000-1618-R	Precision Open/Short/Load, 7/16 DIN(m), DC to 6.0 GHz 50 Ω
2000-1619-R	Precision Open/Short/Load, 7/16 DIN(f), DC to 6.0 GHz 50 Ω
22N50	Open/Short, N(m), DC to 18 GHz, 50 Ω
22NF50	Open/Short, N(f), DC to 18 GHz, 50 Ω
SM/PL-1	Precision Load, N(m), 42 dB, 6.0 GHz, 50 Ω
SM/PLNF-1	Precision Load, N(f), 42 dB, 6.0 GHz, 50 Ω

### Calibration Components, 75 Ω



22N75	Open/Short, N(m), DC to 3 GHz, 75 Ω
22NF75	Open/Short, N(f), DC to 3 GHz, 75 Ω
26N75A	Precision Termination, N(m), DC to 3 GHz, 75 Ω
26NF75A	Precision Termination, N(f), DC to 3 GHz, 75 Ω
12N50-75B	Matching Pad, DC to 3 GHz, 50 Ω to 75 Ω

### Phase-Stable Test Port Cables, Armored w/ Reinforced Grip (recommended for cable & antenna line sweep applications)



15RNFN50-1.5-R	1.5 m, DC to 6 GHz, N(m) to N(f), 50 Ω
15RDFN50-1.5-R	1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(f), 50 Ω
15RDN50-1.5-R	1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(m), 50 Ω
15RNFN50-3.0-R	3.0 m, DC to 6 GHz, N(m) to N(f), 50 Ω
15RDFN50-3.0-R	3.0 m, DC to 6 GHz, N(m) to 7/16 DIN(f), 50 Ω
15RDN50-3.0-R	3.0 m, DC to 6 GHz, N(m) to 7/16 DIN(m), 50 Ω

### InterChangeable Adaptor Phase Stable Test Port Cables, Armored w/Reinforced Grip (recommended for cable and antenna line sweep applications. It uses the same ruggedized grip as the Reinforced grip series cables. Now you can also change the adaptor interface on the grip to four different connector types)



15RCN50-1.5-R	1.5 m, DC to 6 GHz, N(m), N(f), 7/16 DIN(m), 7/16 DIN(f), 50 Ω
15RCN50-3.0-R	3.0 m, DC to 6 GHz, N(m), N(f), 7/16 DIN(m), 7/16 DIN(f), 50 Ω

### Phase-Stable Test Port Cables, Armored (recommended for use with tightly spaced connectors and other general purpose applications)



15NNF50-1.5C	1.5 m, DC to 6 GHz, N(m) to N(f), 50 Ω
15NN50-1.5C	1.5 m, DC to 6 GHz, N(m) to N(m), 50 Ω
15NDF50-1.5C	1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(f), 50 Ω
15ND50-1.5C	1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(m), 50 Ω
15NNF50-3.0C	3.0 m, DC to 6 GHz, N(m) to N(f), 50 Ω
15NN50-3.0C	3.0 m, DC to 6 GHz, N(m) to N(m), 50 Ω

# Site Master™ S331E, S332E, S361E, S362E Specifications

## Optional Accessories (continued)

### Adapters



1091-26-R	SMA(m) to N(m), DC to 18 GHz, 50 Ω
1091-27-R	SMA(f) to N(m), DC to 18 GHz, 50 Ω
1091-80-R	SMA(m) to N(f), DC to 18 GHz, 50 Ω
1091-81-R	SMA(f) to N(f), DC to 18 GHz, 50 Ω
1091-172-R	BNC(f) to N(m), DC to 1.3 GHz, 50 Ω
510-90	7/16 DIN(f) to N(m), DC to 7.5 GHz, 50 Ω
510-91	7/16 DIN(f) to N(f), DC to 7.5 GHz, 50 Ω
510-92	7/16 DIN(m) to N(m), DC to 7.5 GHz, 50 Ω
510-93	7/16 DIN(m) to N(f), DC to 7.5 GHz, 50 Ω
510-96	7/16 DIN(m) to 7/16 DIN (m), DC to 7.5 GHz, 50 Ω
510-97	7/16 DIN(f) to 7/16 DIN (f), DC to 7.5 GHz, 50 Ω
1091-379-R	7/16 DIN(f) to 7/16 DIN(f), DC to 6 GHz, 50 Ω, w/ Reinforced Grip
510-102-R	N(m) to N(m), DC to 11 GHz, 50 Ω, 90 degrees right angle

### Precision Adapters



34NN50A	Precision Adapter, N(m) to N(m), DC to 18 GHz, 50 Ω
34NFnF50	Precision Adapter, N(f) to N(f), DC to 18 GHz, 50 Ω

### Miscellaneous Accessories



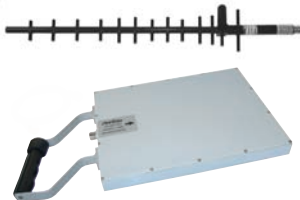
2000-1528-R	GPS Antenna, SMA(m) with 15 ft cable
2000-1652-R	GPS Antenna, SMA(m) with 1 ft cable
69793	CW Signal Generator Kit
ODTF-1	Optical Distance-to-Fault Module, 1550 nm, Single Mode
2000-1520-R	USB Flash Drive
2000-1374	External Charger for Li-Ion Batteries
2000-1371-R	Ethernet Cable, 7 ft/213 cm
3-806-152	Cat 5e Crossover Patch Cable, 7 ft/213 cm
2300-517	Phase Noise Measurement Software (requires Ethernet Option 0411)
2300-532	Map Master CD

### Backpack and Transit Case



67135	Anritsu Backpack (For Handheld Instrument and PC)
760-243-R	Large Transit Case with Wheels and Handle

### Directional Antennas



Part Number	Description
2000-1411-R	822 MHz to 900 MHz, N(f), 10 dBd, Yagi
2000-1412-R	885 MHz to 975 MHz, N(f), 10 dBd, Yagi
2000-1413-R	1710 MHz to 1880 MHz, N(f), 10 dBd, Yagi
2000-1414-R	1850 MHz to 1990 MHz, N(f), 9.3 dBd, Yagi
2000-1415-R	2400 MHz to 2500 MHz, N(f), 10 dBd, Yagi
2000-1416-R	1920 MHz to 2170 MHz, N(f), 10 dBd, Yagi
2000-1519-R	500 MHz to 3 GHz, log periodic

### Portable Antennas



2000-1200-R	806 MHz to 866 MHz, SMA(m), 50 Ω
2000-1473-R	870 MHz to 960 MHz, SMA(m), 50 Ω
2000-1035-R	896 MHz to 941 MHz, SMA(m), 50 Ω (1/2 wave)
2000-1030-R	1710 MHz to 1880 MHz, SMA(m), 50 Ω (1/2 wave)
2000-1474-R	1710 MHz to 1880 MHz with knuckle elbow (1/2 wave)
2000-1031-R	1850 MHz to 1990 MHz, SMA(m), 50 Ω (1/2 wave)
2000-1475-R	1920 MHz to 1980 MHz and 2110 MHz to 2170 MHz, SMA(m), 50 Ω
2000-1032-R	2400 MHz to 2500 MHz, SMA(m), 50 Ω (1/2 wave)
2000-1361-R	2400 MHz to 2500 MHz, 5000 MHz to 6000 MHz, SMA(m), 50 Ω
2000-1636-R	Antenna Kit (Consists of: 2000-1030-R, 2000-1031-R, 2000-1032-R, 2000-1200-R, 2000-1035-R, 2000-1361-R, and carrying pouch)

# Site Master™ S331E, S332E, S361E, S362E Specifications

## Optional Accessories (continued)

### Mag Mount Broadband Antenna



2000-1647-R	Cable 1: 698-1200 MHz 2 dBi peak gain, 1700-2700 MHz 5 dBi peak gain, N(m), 50 Ω, 10 ft Cable 2: 3000-6000 MHz 5 dBi peak gain, N(m), 50 Ω, 10 ft Cable 3: GPS 26 db gain, SMA(m), 50 Ω, 10 ft
2000-1645-R	694-894 MHz 3 dBi peak gain, 1700-2700 MHz 3dBi peak gain, N(m), 50 Ω, 10 ft
2000-1646-R	750-1250 MHz 3 dBi peak gain, 1650-2000 MHz 5 dBi peak gain, 2100-2700 MHz 3 dBi peak gain, N(m), 50 Ω, 10 ft
2000-1648-R	1700-6000 MHz 3 dBi peak gain, N(m), 50 Ω, 10 ft

### Filters



1030-114-R	806 MHz to 869 MHz, N(m) to SMA(f), 50 Ω
1030-109-R	824 MHz to 849 MHz, N(m) to SMA(f), 50 Ω
1030-110-R	880 MHz to 915 MHz, N(m) to SMA(f), 50 Ω
1030-105-R	890 MHz to 915 MHz Band, 0.41 dB loss, N(m) to SMA(f), 50 Ω
1030-111-R	1850 MHz to 1910 MHz, N(m) to SMA(f), 50 Ω
1030-106-R	1710 MHz to 1790 MHz Band, 0.34 dB loss, N(m) to SMA(f), 50 Ω
1030-107-R	1910 MHz to 1990 MHz Band, 0.41 dB loss, N(m) to SMA(f), 50 Ω
1030-112-R	2400 MHz to 2484 MHz, N(m) to SMA(f), 50 Ω
1030-149-R	High Pass, 150 MHz, N(m) to N(f), 50 Ω
1030-150-R	High Pass, 400 MHz, N(m) to N(f), 50 Ω
1030-151-R	High Pass, 700 MHz, N(m) to N(f), 50 Ω
1030-152-R	Low Pass, 200 MHz, N(m) to N(f), 50 Ω
1030-153-R	Low Pass, 550 MHz, N(m) to N(f), 50 Ω
1030-155-R	2500 MHz to 2700 MHz, N(m) to N(f), 50 Ω

### Attenuators



3-1010-122	20 dB, 5 W, DC to 12.4 GHz, N(m) to N(f)
42N50-20	20 dB, 5 W, DC to 18 GHz, N(m) to N(f)
42N50A-30	30 dB, 50 W, DC to 18 GHz, N(m) to N(f)
3-1010-123	30 dB, 50 W, DC to 8.5 GHz, N(m) to N(f)
1010-127-R	30 dB, 150 W, DC to 3 GHz, N(m) to N(f)
3-1010-124	40 dB, 100 W, DC to 8.5 GHz, N(m) to N(f), Uni-directional
1010-121	40 dB, 100 W, DC to 18 GHz, N(m) to N(f), Uni-directional
1010-128-R	40 dB, 150 W, DC to 3 GHz, N(m) to N(f)



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