

**Anritsu** envision : ensure

# Site Master™

Ultraportable Cable & Antenna Analyzer  
Featuring Classic and Advanced Modes

## S331P

150 kHz to 6.0 GHz



**Introduction**

Anritsu introduces its ninth generation, compact handheld Cable & Antenna Analyzer for installation and maintenance of antenna systems. It is available in two frequency ranges starting from 150 kHz and up to 4 GHz or 6 GHz.

**Optimized for Field Use**

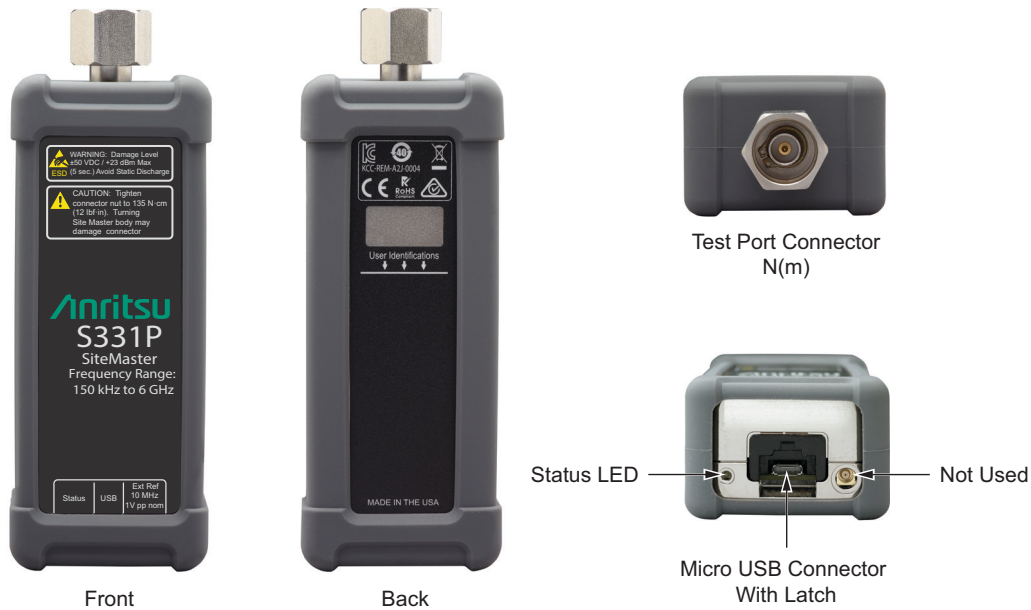
- FlexCal™ Calibration
  - One Calibration for All Frequencies
- Impact, Dust, and Splash Resistant
- Smallest, Lightest, and Fastest Site Master™

**Easy to Use**

- S331D-like Classic Mode
- S331E-like Advanced Mode
  - Additional Markers
  - Customizable Shortcuts
  - Full-screen View
- S331L-like Graphical User Interface and Functionality
- Integrated Help Function
- EZ Name Quick Matrix
- easyTest™
- Controlled and Powered by a Windows tablet or PC using standard USB 2.0 (not included)

**Efficient Sweep Management**

- Internal File Storage (limited only by space on PC or Tablet)
  - Sweeps, Setups, Screen Shots
- Line Sweep Tools (LST) Software
  - Edit Sweeps, Rename, Archive
  - Generate PDF or HTML Reports
- Fast Preview of Stored Sweeps
- Standard \*.dat Sweep File Format
- Compatible with HHST
  - Widely Accepted by Operators



Site Master™ S331P Cable & Antenna Analyzer Featuring USB Connectivity with a Windows PC or Tablet  
 Size: 52 mm x 148 mm 36 mm (2 in x 5.8 in x 1.4 in), Lightweight: < 0.4 kg (< 0.9 lb)

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**Definitions**

All specifications and characteristics apply to Revision 2 instruments under the following conditions, unless otherwise stated:

|                     |   |
|---------------------|---|
| Warm-Up Time        | After 5 minutes of warm-up time, where the instrument has completely stabilized to the ambient temperature.   |
| Temperature Range   | Over the 23 °C ±5 °C temperature range.   |
| Frequency Reference | Internal frequency reference is used.   |
| Calibration         | Instrument is within the recommended calibration cycle of 12 months. Cable and Antenna Analyzer measurements applicable after standard OSL calibration is performed using Anritsu calibration components.   |
| Typical Performance | Typical specifications in parenthesis () describe performance that will be met by a minimum of 80% of all products. They do not include guard bands and are not warranted.<br>Typical specifications that are not in parenthesis are not tested and not warranted. They are generally representative of the nominal characteristic performance. |
| Uncertainty         | A coverage factor of k = 2 is applied to the measurement uncertainties to facilitate comparison with other industry monitors.<br>All specifications subject to change without notice. For the most current data sheet, please visit the Anritsu web site: <a href="http://www.anritsu.com">www.anritsu.com</a>                                  |


**Cable and Antenna Analyzer**
**Measurements**

|              |  |
|--------------|--|
| Measurements | VSWR<br>Return Loss<br>Cable Loss (One Port)<br>Distance-to-Fault (DTF) Return Loss<br>Distance-to-Fault (DTF) VSWR<br>Smith Chart 50 Ω/75 Ω (Advanced Mode Only)<br>1-Port Phase (Advanced Mode Only) |
|--------------|--|

**Setup Parameters–Classic Mode**

|                     |  |
|---------------------|--|
| Measurement Display | Single Display with independent markers  |
| Frequency           | Start Frequency (F1), Stop Frequency (F2)  |
| DTF                 | Start Distance (D1), Stop Distance (D2), DTF Aid, Cable Loss, Propagation Velocity, Cable type   |
| Windowing           | Rectangular, Normal Side Lobe, Low Side Lobe, Minimum Side Lobe  |
| Amplitude           | Top, Bottom Auto Scale, Full Scale   |
| Sweep               | Data Points, Run/Hold, Single/Continuous, Trace  |
| Data Points         | 130, 259, 517, 1033, 2065  |
| Markers             | Markers 1 to 6 (On/Off), Delta Markers 2 to 4 (Ref M1), Marker to Peak/Valley, Marker Table, Marker 5 (Peak/Valley between M1 & M2), Marker 6 (Peak/Valley between M3 & M4), Independent Markers for Frequency and Distance Measurements |
| Traces              | Copy Trace To Memory, Trace Display, Trace Math [Trace - Memory, Trace + Memory, (Trace + Memory)/2]   |
| Limit Line          | On/Off, Edit Value, Limit Alarm, Pass/Fail On/Off, Limit Preset  |
| Calibration         | Start Calibration, Cal Info, Cal Correction (On/Off), Cal Method (OSL), Cal Type (Standard, FlexCal™)  |
| Save/Recall         | Setups, Measurements, Screen Shots   |

**Setup Parameters–Advanced Mode**

|                     |  |
|---------------------|--|
| Measurement Display | Single/Dual Display with independent markers   |
| Frequency           | Start Frequency (F1), Stop Frequency (F2)  |
| DTF                 | Start Distance (D1), Stop Distance (D2), Units m/ft, DTF Aid, Cable List, Cable Loss, Propagation Velocity   |
| Windowing           | Rectangular, Normal Side Lobe, Low Side Lobe, Minimum Side Lobe  |
| Amplitude           | Top, Bottom, Auto Scale, Full Scale  |
| Sweep               | Data Points, Run/Hold, Single/Continuous   |
| Data Points         | 130, 259, 517, 1033, 2065  |
| Markers             | Markers 1 to 8 (On/Off), Delta Markers 2 to 8 (Ref M1), Marker Tracking (On/Off), Marker to Peak/Valley, Marker Table, Marker 5 & 7 (Peak/Valley between M1 & M2), Marker 6 & 8 (Peak/Valley between M3 & M4), Independent Markers for Frequency and Distance Measurements |
| Traces              | Copy Trace to Memory, Trace Display, Trace Math [Trace - Memory, Trace + Memory, (Trace + Memory)/2]   |
| Limit Line          | Active Limit (Upper/Lower), Limit State (On/Off), Move Active Limit, Edit Segments (42 upper and 42 lower segments maximum), Limit Alarm, Pass/Fail On/Off, Limit Preset   |
| Calibration         | Start Calibration, Cal Info, Cal Correction (On/Off), Cal Method (OSL), Cal Type (Standard, FlexCal™)  |
| Save/Recall         | Setups, Measurements, Screen Shots   |

**Frequency**

|                      |  |
|----------------------|--|
| Frequency Ranges     | 500 kHz to 4 GHz (S331P-0704)<br>500 kHz to 6 GHz (S331P-0706)<br>Either option can be set as low as 150 kHz |
| Frequency Accuracy   | ± 2.5 ppm @ 23 °C ± 3 °C   |
| Frequency Resolution | 1 kHz  |

**Power**

|              |                 |
|--------------|-----------------|
| Output Power | -5 dBm, typical |
|--------------|-----------------|

**Interference Immunity**

+17 dBm, typical

**Measurement Speed**500 μs/data point, typical<sup>1</sup>**Return Loss**

|                   |            |
|-------------------|------------|
| Measurement Range | 0 to 60 dB |
| Resolution        | 0.01 dB    |

**VSWR**

|                   |         |
|-------------------|---------|
| Measurement Range | 1 to 65 |
| Resolution        | 0.01    |

1. Timing dependent on external computer configuration

**Cable and Antenna Analyzer** (continued)

**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)  $(1.5 \times 10^8 \times vp)/\Delta F$  (vp = propagation velocity,  $\Delta F$  is F2 - F1 in Hz)  
Horizontal Range (meters) 0 to (Data Points - 1) x Fault Resolution, to maximum of 1500 meters (4921 ft)

**1-Port Phase** (Advanced Mode Only)

Measurement Display Range -450 ° to +450 °  
Resolution 0.01 °

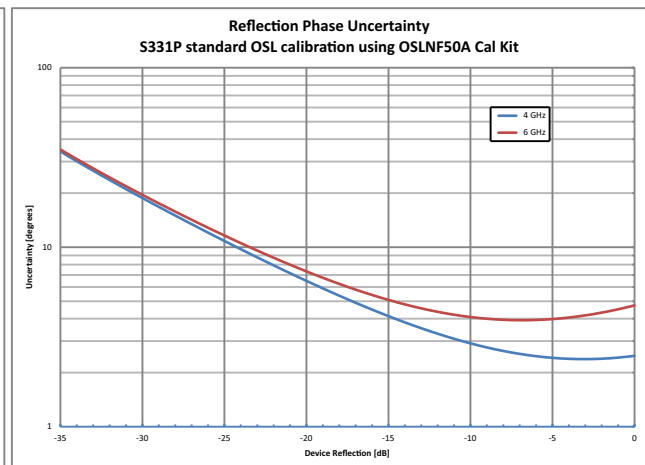
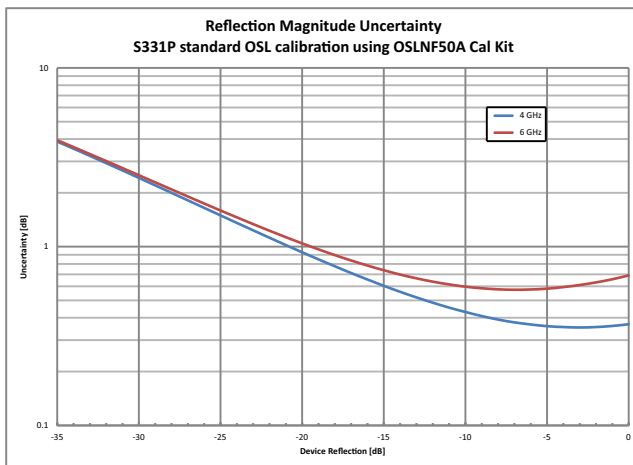
**Smith Chart** (Advanced Mode Only)

Impedance 50 Ω, 75 Ω  
Resolution 0.01

**Measurement Accuracy** (at 23 °C ± 3 °C)

Corrected Directivity ≥ 42 dB, OSL calibration (OSLN50A-8, OSLNF50A-8)

**Return Loss Measurement Uncertainty** (Standard OSL calibration. OSLNF50A-8 Precision Open/Short/Load calibration component.)



**General Specifications**

**Setup Parameters**

|                             |  |
|-----------------------------|--|
| System Info                 | Status   |
| System Setups               | Language, Display/Audio  |
| Language                    | English, French, German, Italian, Spanish, Russian, Portuguese, Japanese, Korean, Chinese        |
| Display/Audio               | Brightness, Color Schemes, Screen Shot Settings, Volume  |
| Connectivity                | USB  |
| Diagnostics                 | Self Test  |
| Preset                      | Preset, Reset  |
| Reset                       | Factory Reset, Delete All User Files, Delete Custom Files, Master Reset                          |
| File                        | Save, Recall, File Management  |
| Save                        | Measurement (*.dat), Setup (*.stp), Screen Shot (*.png)  |
| Recall                      | Recall, Create Folder, Copy, Paste, Delete   |
| File Management             | Rename, Create Folder, Copy, Paste, Delete   |
| Navigation                  | Top, Bottom, Page Up, Page Down  |
| Help Menu                   | System Info, FAQ, User Guide   |
| Internal Trace/Setup Memory | > 1000 files for traces, setups, screen shots, or any combination (limited by PC/Tablet storage) |
| External Trace/Setup Memory | Limited only by size of USB Flash drive  |

**Connectors**

RF Port Type N(m), 50 Ω, Maximum input +23 dBm maximum, ±50 VDC maximum  
USB Port USB 2.0 port for connecting to an external PC controller

**Electromagnetic Compatibility**

|                           |  |
|---------------------------|--|
| European Union            | CE Mark                                |
| EMC Directive             | 2014/30/EU                             |
| Emissions                 | EN 55011:2009 +A1:2010 Group 1 Class A |
| Immunity                  | EN 61000-4-2/3/4/5/6/8/11              |
| Australia and New Zealand | RSM                                    |
| South Korea               | KCC                                    |

**Safety**

|                       |                                      |
|-----------------------|--------------------------------------|
| Low Voltage Directive | 2014/35/EU                           |
| Product Safety        | EN 61010-1:2010 Class 1, IEC 60950-1 |

**Environmental**

|                           |  |
|---------------------------|--|
| Operating Temperature     | -10 °C to +55 °C                               |
| Storage Temperature       | -51 °C to +71 °C                               |
| Maximum Relative Humidity | 95 %, non-condensing                           |
| Mechanical Shock          | MIL-PRF-28800F Class 2                         |
| Explosive Atmosphere      | MIL-PRF-28800F Section 4.5.6.3                 |
| Altitude                  | 4600 m (15092 ft), operating and non-operating |

**Size and Weight**

|        |   |
|--------|---|
| Size   | 52 mm x 148 mm 36 mm (2 in x 5.8 in x 1.4 in) |
| Weight | < 0.4 kg (< 0.9 lb), typical                  |

**Recommended External PC Configuration**

One USB 2.0 (or higher) port  
 S331P software is compatible with Windows® 7, 8, 8.1, or 10; 32 or 64 bit operating systems.  
 Tested with tablets running Windows 10 and Intel Atom X5-Z8300 processor.



 **Anritsu Tool Box and Line Sweep Tools** (for your PC)

Line Sweep Tools (LST) is a free PC based program that increases productivity for people who deal with numerous Cable and Antenna traces every day. LST is the next generation of Anritsu's familiar Handheld Software Tools (HHST) and shares its uncomplicated user interface, giving a new face to the term "ease of use."

|                                      |   |
|--------------------------------------|---|
| Cable Editor <sup>1</sup>            | Instrument Cable Lists may be retrieved from the instrument, modified as required, and uploaded back into instrument.   |
| Distance to Fault <sup>2</sup> (DTF) | Easily convert Return Loss or VSWR traces to Distance to Fault traces with one button press.  |
| Measurement Calculator               | Provides quick conversion between commonly used measurement units such as VSWR, RL, and others.   |
| Signal Standard Editor <sup>1</sup>  | Signal Standard Lists may be retrieved from the instrument, modified as required, and uploaded back into instrument.  |
| Naming Grid                          | A naming grid function makes changing file names, trace titles, and trace subtitles from field values to those required by contract simple and quick. Once the naming grid is populated with user defined file name segments, a few simple button presses will then fill out the file, title, and sub-title names. Quickly applied to multiple traces, the naming grid can save time, increase efficiency and accuracy. |
| Presets                              | Presets make applying markers and a limit line to similar traces quick and easy. They only need to be set once, and recorded. After this, applying them to a similar trace requires only one button push. This speeds up trace processing and makes providing consistent marker and limit line settings easy.   |
| Report Generator                     | The report generator creates a professional PDF or HTML based report. Reports may include GPS <sup>3</sup> location, power level <sup>3</sup> , company logo <sup>4</sup> , instrument and calibration status along with a display of all open traces. It also may contain additional information such as addresses and phone numbers.  |
| Connection                           | File transfer.  |
| Supported File Types                 | Input: *.dat, *.vna, *.mna, *.pim, *.tm<br>Output: *.dat, *.vna, *.pim, *.tm, *.csv, *.bmp, *.jpg, *.png  |

 **easyTest Tools** (for your PC)

**Instrument Mode**

Cable & Antenna Analyzer Mode

**Commands**

|               |  |
|---------------|--|
| Display Image | Allows a custom on-screen image              |
| Recall Setup  | Places the instrument into a known state     |
| Prompt        | Displays instructional messages for the user |
| Save          | Allows automatic or manual saving of traces  |

1. Instrument type/model must match original  
 2. Only \*.dat and \*.vna file types supported  
 3. Model dependent  
 4. Optionally set by user

## Ordering Information



| Model Number      | Description  |
|-------------------|--|
| S331P             | Cable and Antenna Analyzer (required one frequency option) |
| Frequency Options |  |
| S331P-0704        | 150 kHz to 4 GHz   |
| S331P-0706        | 150 kHz to 6 GHz   |

## Calibration and Extended Warranty Options

| Option      | Description   |
|-------------|---|
| S331P-ES510 | Warranty Extension to 5 Years                                   |
| S331P-ES513 | Warranty Extension to 5 Years with Z540 Calibration             |
| S331P-0098  | Standard Calibration only (to ISO/IEC 17025:2005)               |
| S331P-0099  | Premium Calibration only with test data (to ISO/IEC 17025:2005) |

## Standard Accessories (included with instrument)



| Part Number | Description   |
|-------------|---|
| 2000-1864-R | Soft Carrying Case  |
| 2000-1606-R | USB-A to Micro-B with latch cable, 1.8 m (6 ft)                                 |
| 2000-1687-R | Torque Multiplier N(m)  |
| 2300-578-R  | USB memory device with the S331P Site Master application and user documentation |
|             | Standard Three-Year Warranty  |
|             | Certificate of Calibration and Conformance                                      |

## Reference Documents (Soft copies available at [www.anritsu.com](http://www.anritsu.com))

| Part Number | Description                                      |
|-------------|--|
| 11410-00964 | Site Master™ S331P Technical Data Sheet          |
| 10580-00426 | Site Master™ S331P User Guide                    |
| 11410-00674 | Cable and Antenna Analysis Troubleshooting Guide |



Optional Accessories

Calibration Components, 50 Ω



| Part Number | Description   |
|-------------|---|
| OSLN50A-8   | Precision Open/Short/Load, N(m), 42 dB, DC to 8.0 GHz, 50 Ω |
| OSLNF50A-8  | Precision Open/Short/Load, N(f), 42 dB, DC to 8.0 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, DC to 6.0 GHz                  |
| SM/PLNF-1   | Precision Load, N(f), 42 dB, DC to 6.0 GHz                  |

Calibration Components, 75 Ω



| Part Number | Description                                    |
|-------------|--|
| 12N50-75B   | Matching Pad, DC to 3 GHz, 50 Ω to 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 |

Adapters



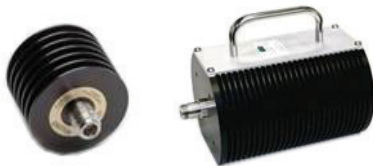
| Part Number | Description   |
|-------------|---|
| 510-91-R    | 7/16 DIN(f) to N(f), DC to 7.5 GHz, 50 Ω                        |
| 510-96-R    | 7/16 DIN(m) to 7/16 DIN(m), DC to 7.5 GHz, 50 Ω                 |
| 510-97-R    | 7/16 DIN(f) to 7/16 DIN(f), DC to 7.5 GHz, 50 Ω                 |
| 1091-80-R   | 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                              |
| 1091-433-R  | Low PIM Adapter, 4.1/9.5(f) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω |
| 1091-434-R  | Low PIM Adapter, 4.1/9.5(m) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω |
| 1091-435-R  | Low PIM Adapter, 4.1/9.5(f) to N(m), DC to 3.0 GHz, 50 Ω        |
| 1091-436-R  | Low PIM Adapter, 4.1/9.5(m) to N(m), DC to 3.0 GHz, 50 Ω        |
| 1091-440-R  | Low PIM Adapter, 4.3/10(f) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω  |
| 1091-441-R  | Low PIM Adapter, 4.3/10(m) to 7/16 DIN(f), DC to 3.0 GHz, 50 Ω  |
| 1091-442-R  | Low PIM Adapter, 4.3/10(f) to N(m), DC to 3.0 GHz, 50 Ω         |
| 1091-443-R  | Low PIM Adapter, 4.3/10(m) to N(m), DC to 3.0 GHz, 50 Ω         |

Precision Adapters



| Part Number | Description   |
|-------------|---|
| 34NN50A     | Precision Adapter, N(m) to N(m), DC to 18 GHz, 50 Ω |
| 34NFN50     | Precision Adapter, N(f) to N(f), DC to 18 GHz, 50 Ω |

Attenuators



| Part Number | Description   |
|-------------|---|
| 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(f) to N(m), Unidirectional |
| 1010-121    | 40 dB, 100 W, DC to 18 GHz, N(f) to N(m), Unidirectional  |
| 1010-128-R  | 40 dB, 150 W, DC to 3 GHz, N(m) to N(f)                   |

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**Optional Accessories** (continued)
 

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**USB Extender Kit** (for 2-port cable loss/transmission (external sensor) measurements)


| Model Number | Description   |
|--------------|---|
| 2000-1717-R  | USB Extender, Requires Cat 5e extension cable (sold separately) |
| 2100-28-R    | Cat 5e extension cable for use with USB Extender (22.5 m)       |

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**Backpack and Transit Case**


| Part Number | Description  |
|-------------|--|
| 67135       | Anritsu Backpack (for instrument and PC)                     |
| 760-283     | Transit Case, USB 1 Port VNA (for MS46121A and S331P models) |

Notes

# Training at Anritsu

Anritsu has designed courses to help you stay up to date with technologies important to your job. For available training courses, visit: [www.anritsu.com/training](http://www.anritsu.com/training)



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