

**Anritsu** Advancing beyond

# Site Master™

Ultraportable Cable & Antenna Analyzer  
Featuring Classic and Advanced Modes

## S331P

150 kHz to 4.0 GHz or 6 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. The S331P is now also supported by the Field Master Pro™ MS2090A with Option 331.

**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**

- Factory default calibration (1-Port ReadyCal) automatically applied to OSL measurements
- 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) or the Field Master Pro MS2090A

**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 and \*.csv File Formats
- 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 x 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 3 instruments under the following conditions, unless otherwise stated:
	<ul style="list-style-type: none"> <li>• 23 °C ± 5 °C ambient temperature</li> <li>• After 10 minutes of warm-up time, where the instrument has completely stabilized to the ambient temperature.</li> <li>• Internal frequency reference is used.</li> </ul>
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 parentheses () describe performance that will be met by a minimum of 80% of all products. They do not include guard bands and are not warranted. Typical specifications that are not in parentheses 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.
	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 Return Loss Cable Loss (One Port) Distance-to-Fault (DTF) Return Loss Distance-to-Fault (DTF) VSWR Smith Chart 50 Ω/75 Ω (Advanced Mode Only) 1-Port Phase (Advanced Mode Only) Transmission with External Sensor (Advanced Mode Only)
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**Setup Parameters–Classic Mode** (PC Application)

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	Factory default 1-Port ReadyCal (automatically applied to all measurements) User calibration (User Cal) overrides ReadyCal Start Calibration, Cal Info, User Cal (On/Off), Cal Method: OSL Cal Types: Standard, FlexCal™
Save/Recall	Setups, Measurements, Screen Shots

**Setup Parameters–Advanced Mode** (PC Application)

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, RF Immunity (High/Low)
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	Factory default 1-Port ReadyCal (automatically applied to all measurements except Transmission) User calibration (User Cal) overrides ReadyCal Start Calibration, Cal Info, User Cal (On/Off), Cal Methods: OSL, Transmission, OSL + Transmission Cal Types: Standard, FlexCal™
Save/Recall	Setups, Measurements, Screen Shots

**Frequency**

Frequency Ranges	150 kHz to 4 GHz (S331P-0704) 150 kHz to 6 GHz (S331P-0706)
Frequency Accuracy	± 2.5 ppm @ 23 °C ± 3 °C
Frequency Resolution	1 kHz

**Power**

Output Power	-5 dBm, typical
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**Interference Immunity**

On Channel and On Frequency +17 dBm, typical

**Measurement Speed**

500 µs/data point (timing dependent on external computer configuration)

 **Cable and Antenna Analyzer** (continued)

**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)  $(1.5 \times 10^8 \times v_p) / \Delta F$  ( $v_p$  = propagation velocity,  $\Delta F$  is  $F_2 - F_1$  in Hz)  
Horizontal Range (meters) 0 to  $(\text{Data Points} - 1) \times \text{Fault Resolution}$ , to maximum of 1500 meters (4921 ft)

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

Measurement Display Range  $-450^\circ$  to  $+450^\circ$   
Resolution  $0.01^\circ$

**Smith Chart** (Advanced Mode Only)

Impedance  $50 \Omega$ ,  $75 \Omega$   
Resolution 0.01

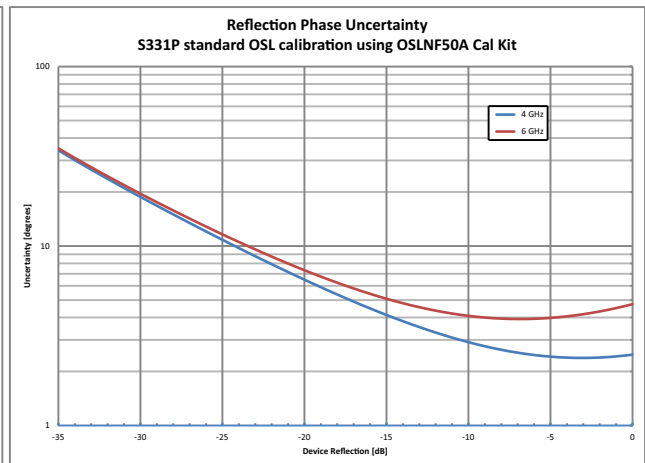
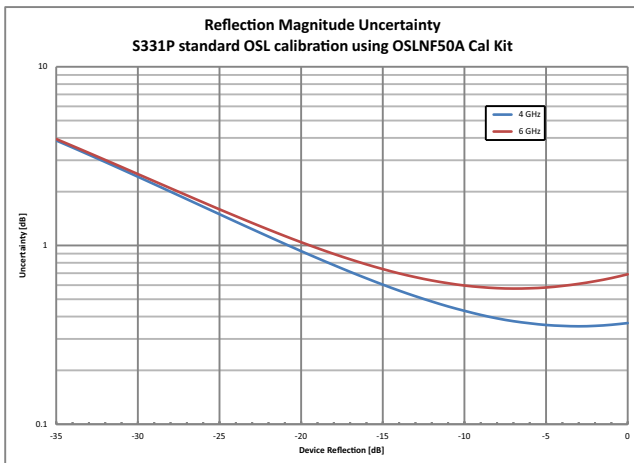
**Transmission Ext Sensor** (Advanced Mode Only)

Measurement Display Range  $-100$  dB to  $+100$  dB  
Resolution 0.01 dB

**Measurement Accuracy** (at  $23^\circ\text{C} \pm 3^\circ\text{C}$ )

Corrected Directivity  $\geq 42$  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 (PC Application)**

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, *.csv), Setup (*.stp), Screen Shot (*.png), System and Self Test Info (*.txt)
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

**Regulatory Compliance**

European Union	EMC 2014/30/EU, EN 61326:2013, CISPR 11/EN 55011, IEC/EN 61000-4-2/3/4/5/6/8/11 Low Voltage Directive 2014/35/EU Safety EN 61010-1:2010 RoHS Directive 2011/65/EU applies to instruments with CE marking placed on the market after July 22, 2017
Australia and New Zealand	RCM AS/NZS 4417:2012
South Korea	KCC-REM-A21-0004

**Environmental**

	MIL-PRF-28800F Class 2
Operating Temperature Range	-10 °C to 55 °C
Storage Temperature Range	-51 °C to 71 °C
Maximum Relative Humidity	95 % RH at 30 °C, non-condensing
Vibration, Sinusoidal	5 Hz to 55 Hz
Vibration, Random	10 Hz to 500 Hz
Half Sine Shock	30 g <sub>n</sub>
Altitude	4600 meters, operating and non-operating

**Size and Weight**

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

**Recommended External PC/Controller Configuration**

One USB 2.0 (or higher) port  
 S331P software is compatible with Windows® 7, 8, 8.1, 10, 11; 32 or 64 bit operating systems.  
 Tested with tablets running Windows 10 or 11 and Intel Atom X5-Z8300 processor.  
 Or use with MS2090A with Option 331, and MS2080A

 **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 Output: *.dat, *.vna, *.pim, *.tm, *.csv, *.bmp, *.jpg, *.png

 **easyTest Tools** (for your PC)

<b>Instrument Mode</b>	Cable & Antenna Analyzer Mode
<b>Commands</b>	
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 to ISO17025 and ANSI/NCSL Z540-1. Includes calibration certificate.
S331P-0099	Premium Calibration to ISO17025 and ANSI/NCSL Z540-1. Includes calibration certificate, test report, and uncertainty data.

Standard Accessories (included with instrument)

Accessory	Description	Accessory	Description
	2000-1864-R Soft Carrying Case		2000-1687-R Torque Multiplier N(m)
	2000-2010-R USB-A to Micro-USB, 1.83 m (6 ft)		Standard Three-Year Warranty Certificate of Calibration and Conformance


USB Sensors (for complete ordering information, see the respective data sheets of each sensor)


Accessory	Description	Accessory	Description
	MA24330A Microwave CW USB Power Sensor, 10 MHz to 33 GHz, +20 dBm		MA24108A Microwave USB Power Sensor, 10 MHz to 8 GHz, +20 dBm to -40 dBm
	MA24340A Microwave CW USB Power Sensor, 10 MHz to 40 GHz, +20 dBm		MA24118A Microwave USB Power Sensor, 10 MHz to 18 GHz, +20 dBm to -40 dBm
	MA24350A Microwave CW USB Power Sensor, 10 MHz to 50 GHz, +20 dBm		MA24126A Microwave USB Power Sensor, 10 MHz to 26 GHz, +20 dBm to -40 dBm
	MA24208A Microwave Universal USB Power Sensor, 10 MHz to 8 GHz, +20 dBm to -60 dBm		MA24105A Inline Dual Directional High Power Sensor, 350 MHz to 4 GHz, +3 dBm to +51.76 dBm
	MA24218A Microwave Universal USB Power Sensor, 10 MHz to 18 GHz, +20 dBm to -60 dBm		
	MA24106A High Accuracy RF Power Sensor, 50 MHz to 6 GHz, +23 dBm to -40 dBm		MA25100A RF Power Indicator
	SC8268 USB Transmission Sensor, K(m), 1 MHz to 40 GHz, +10 dBm to -50 dBm		



Optional Accessories

Backpack and Transit Case

Accessory	Description
	67135 Anritsu Backpack (for instrument and PC)

Accessory	Description
	760-283 Transit Case, USB 1 Port VNA



Calibration Components, 50 Ω

Accessory	Description
	OSLN50A-8 High Performance Type N(m), DC to 8 GHz, 50 Ω
	OSLNF50A-8 High Performance Type N(f), DC to 8 GHz, 50 Ω
	2000-1914-R Precision Open/Short/Load, 4.3-10(f), DC to 6 GHz, 50 Ω
	2000-1915-R Precision Open/Short/Load, 4.3-10(m), DC to 6 GHz, 50 Ω
	2000-1618-R Precision Open/Short/Load, 7/16 DIN(m), DC to 6.0 GHz 50 Ω









Accessory	Description
	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
	SM/PLNF-1 Precision Load, N(f), 42 dB, 6.0 GHz



Calibration Components, 75 Ω

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

Accessory	Description
	22NF75 Open/Short, N(f), DC to 3 GHz, 75 Ω
	26NF75A Precision Termination, N(f), DC to 3 GHz, 75 Ω

Adapters		Accessory	
Accessory	Description	Accessory	Description
	510-91-R 7/16 DIN(f) to N(f), DC to 7.5 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
	510-96-R 7/16 DIN(m) to 7/16 DIN(m), DC to 7.5 GHz, 50 Ω		1091-435-R Low PIM Adapter, 4.1-9.5(f) to N(m), DC to 3.0 GHz, 50 Ω
	510-97-R 7/16 DIN(f) to 7/16 DIN(f), DC to 7.5 GHz, 50 Ω		1091-436-R Low PIM Adapter, 4.3-10(f) to 7/16 DIN(f), DC to 6.0 GHz, 50 Ω
	1091-80-R SMA(m) to N(f), DC to 18 GHz, 50 Ω		1091-440-R Low PIM Adapter, 4.3-10(f) to 7/16 DIN(f), DC to 6.0 GHz, 50 Ω
	1091-81-R SMA(f) to N(f), DC to 18 GHz, 50 Ω		1091-441-R Low PIM Adapter, 4.3-10(m) to 7/16 DIN(f), DC to 6.0 GHz, 50 Ω
	1091-433-R Low PIM Adapter, 4.1-9.5(f) to 7/16 DIN(f), DC to 3.0GHz, 50 Ω		1091-443-R Low PIM Adapter, 4.3-10(m) to N(m), DC to 6.0 GHz, 50 Ω
	1091-465-R DC to 6 GHz, 4.3-10(f) to N(f), 50 Ω		1091-442-R Low PIM Adapter, 4.3-10(f) to N(m), DC to 6.0 GHz, 50 Ω
	1091-467-R DC to 6 GHz, 4.3-10(m) to N(f), 50 Ω		510-93-R 7/16 DIN(m) to N(f), DC to 7.5 GHz, 50 Ω
	510-90-R 7/16 DIN(f) to N(m), DC to 7.5 GHz, 50 Ω		510-92-R 7/16 DIN(m) to N(m), DC to 7.5 GHz, 50 Ω
Precision Adapters		Accessory	
Accessory	Description	Accessory	Description
	34NN50A N(m) to N(m), DC to 18 GHz, 50 Ω		34NFN50 N(f) to N(f), DC to 18 GHz, 50 Ω

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

USB Extender Kit (for use with external 2-port cable loss/transmission sensors; requires Cat 5e extension cable, sold separately)		Accessory	
Accessory	Description	Accessory	Description
	2000-1900-R USB 2.0 Active 100 meter Extender (with Type A power cord for USA, Japan, North America, Central America and Caribbean)		2000-1717-R USB 1.1 Passive 40 m Extender (Not compatible with sensors MA24208A, MA24218A, MA24330A, MA24340A, MA24350A; must use active extenders with these sensors).
	2000-1901-R USB 2.0 Active 100 meter Extender (with Type C power cord for use in Europe, India, South Korea, and many countries in Middle East and Africa)		2100-28-R Cat 5e extension cable for use with USB Extender (22.5 m)
	2000-1902-R USB 2.0 Active 100 meter Extender (with Type I power cord for use in Australia, New Zealand, Argentina, and the South Pacific)		
	2000-1903-R USB 2.0 Active 100 meter Extender (with Type G power cord for use in the UK, and several other countries in Asia, the Middle East, and Africa)		

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



+1 (888) 880-6804  
sales@testforce.com

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### • United States

**Anritsu Americas Sales Company**  
450 Century Parkway, Suite 190,  
Allen, TX 75013, U.S.A.  
Phone: +1-800-Anritsu (1-800-267-4878)

### • Canada

**Anritsu Electronics Ltd.**  
**Americas Sales and Support**  
450 Century Parkway, Suite 190,  
Allen, TX 75013, U.S.A.  
Phone: +1-800-Anritsu (1-800-267-4878)

### • Brazil

**Anritsu Elettronica Ltda.**  
Praça Amadeu Amaral, 27 - 1 Andar  
01327-010 - Bela Vista - Sao Paulo - SP, Brazil  
Phone: +55-11-3283-2511  
Fax: +55-11-3288-6940

### • Mexico

**Anritsu Company, S.A. de C.V.**  
Blvd Miguel de Cervantes Saavedra #169 Piso 1,  
Col. Granada, Mexico, Ciudad de Mexico,  
11520, MEXICO  
Phone: +52-55-4169-7104

### • United Kingdom

**Anritsu EMEA Ltd.**  
200 Capability Green,  
Luton, Bedfordshire, LU1 3LU, U.K.  
Phone: +44-1582-433200  
Fax: +44-1582-731303

### • France

**Anritsu S.A.**  
12 avenue du Québec, Immeuble Goyave,  
91140 VILLEBON SUR YVETTE, France  
Phone: +33-1-60-92-15-50

### • Germany

**Anritsu GmbH**  
Nemetschek Haus, Konrad-Zuse-Platz 1,  
81829 München, Germany  
Phone: +49-89-442308-0  
Fax: +49-89-442308-55

### • Italy

**Anritsu S.r.l.**  
Spaces Eur Arte, Viale dell'Arte 25, 00144 Roma, Italy  
Phone: +39-6-509-9711  
List Revision Date: 20230901

### • Sweden

**Anritsu AB**  
Kistagången 20 B, 2 tr, 164 40 Kista, Sweden  
Phone: +46-8-534-707-00

### • Finland

**Anritsu AB**  
Technopolis Aviapolis, Teknobulevardi 3-5 (D208.5),  
FI-01530 Vantaa, Finland  
Phone: +358-20-741-8100

### • Denmark

**Anritsu A/S**  
c/o Regus Winghouse, Ørestads Boulevard 73, 4th floor,  
2300 Copenhagen S, Denmark  
Phone: +45-7211-2200

### • Spain

**Anritsu EMEA Ltd.**  
**Representation Office in Spain**  
Paseo de la Castellana, 141.  
Planta 5, Edificio Cuzco IV  
28046, Madrid, Spain  
Phone: +34-91-572-6761

### • Austria

**Anritsu EMEA GmbH**  
Am Belvedere 10, A-1100 Vienna, Austria  
Phone: +43-(0)1-717-28-710

### • United Arab Emirates

**Anritsu EMEA Ltd.**  
**Anritsu A/S**  
Office No. 164, Building 17, Dubai Internet City  
P. O. Box - 501901, Dubai, United Arab Emirates  
Phone: +971-4-3758479

### • India

**Anritsu India Private Limited**  
6th Floor, Indiqube ETA, No.38/4, Adjacent to EMC2,  
Doddanekundi, Outer Ring Road,  
Bengaluru - 560048, India  
Phone: +91-80-6728-1300  
Fax: +91-80-6728-1301

### • Singapore

**Anritsu Pte. Ltd.**  
1 Jalan Kilang Timor, #07-04/06 Pacific Tech Centre  
Singapore 159303  
Phone: +65-6282-2400  
Fax: +65-6282-2533

### • Vietnam

**Anritsu Company Limited**  
16th Floor, Peakview Tower, 36 Hoang Cau Street,  
O Cho Dua Ward, Dong Da District, Hanoi, Vietnam  
Phone: +84-24-3201-2730

### • P.R. China (Shanghai)

**Anritsu (China) Co., Ltd.**  
Room 2701-2705, Tower A, New Caohejing  
International Business Center No. 391 Gui Ping Road  
Shanghai, 200233, P.R. China  
Phone: +86-21-6237-0898  
Fax: +86-21-6237-0899

### • P.R. China (Hong Kong)

**Anritsu Company Ltd.**  
Unit 1006-7, 10/F., Greenfield Tower, Concordia Plaza,  
No. 1 Science Museum Road, Tsim Sha Tsui East,  
Kowloon, Hong Kong, P.R. China  
Phone: +852-2301-4980  
Fax: +852-2301-3545

### • Japan

**Anritsu Corporation**  
8-5, Tamura-cho, Atsugi-shi, Kanagawa, 243-0016 Japan  
Phone: +81-46-296-6509  
Fax: +81-46-225-8352

### • South Korea

**Anritsu Corporation, Ltd.**  
8F, A TOWER, 20, Gwacheondaero 7-gil, Gwacheon-si,  
Gyeonggi-do, 13840, Republic of Korea  
Phone: +82-2-6259-7300  
Fax: +82-2-6259-7301

### • Australia

**Anritsu Pty. Ltd.**  
Unit 20, 21-35 Ricketts Road,  
Mount Waverley, Victoria 3149, Australia  
Phone: +61-3-9558-8177  
Fax: +61-3-9558-8255

### • Taiwan

**Anritsu Company Inc.**  
7F, No. 316, Sec. 1, NeiHu Rd., Taipei 114, Taiwan  
Phone: +886-2-8751-1816  
Fax: +886-2-8751-1817