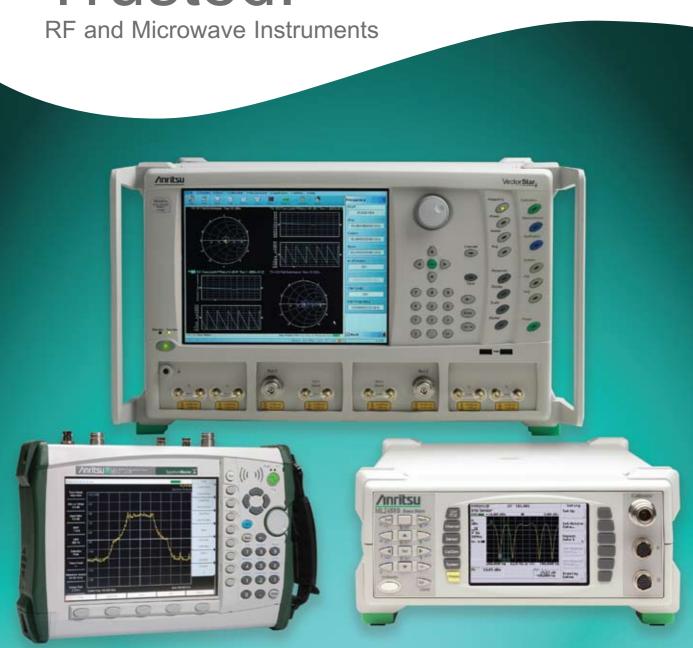


Reliable. Powerful. Trusted.



Spectrum Analyzers

Model	Frequency	RBW	Noise Level	Key Features
MS2661C	9 kHz to 3 GHz	30 Hz to 3 MHz	–130 dBm (option and frequency dependent)	Frequency counter C/N Adjacent channel power Occupied-frequency bandwidth
MS2663C	9 kHz to 8.1 GHz	30 Hz to 3 MHz	–130 dBm (option and frequency dependent)	Burst average power Noise power PASS/FAIL limit lines
MS2665C	9 kHz to 21.2 GHz	30 Hz to 3 MHz	-130 dBm (option and frequency dependent)	Compact, lightweight (13 kg standard) High C/N and superior distortion characteristics
MS2667C	9 kHz to 30 GHz	10 Hz to 3 MHz	-135 dBm (option and frequency dependent)	Easy-to-use operation Options support wide range of applications MS2665C supports easy set up auto
MS2668C	9 kHz to 40 GHz	10 Hz to 3 MHz	–135 dBm (option and frequency dependent)	measurements ■ MS2667/68C supports millimeter applications
MS2681A	9 kHz to 3 GHz	1 Hz to 20 MHz	Down to –148.3 dBm (option and frequency dependent)	Fast data transmission speed (GPIB transmission speed:120 kbytes/second) Optional measurement software for high-speed
MS2683A	9 kHz to 7.8 GHz	1 Hz to 20 MHz	Down to –146.5 dBm (option and frequency dependent)	modulation analysis (1.5 seconds with W-CDMA, 0.5 seconds with IEEE 802.11a) Optional narrow resolution bandwidth from 1 Hz
MS2687B	9 kHz to 30 GHz	1 Hz to 20 MHz	Down to -146.5 dBm (option and frequency dependent)	Optional measurement software for high-speed modulation analysis (0.5 seconds with IEEE 802.11a) Optional power meter that measures up to 32 GHz Fast data transmission speed (GPIB transmission speed:120 kbytes/second)
MS2711D	100 kHz to 3 GHz	100 Hz to 1 MHz	–135 dBm	
MS2717B MS2718B MS2719B	9 kHz to 7.1 GHz 9 kHz to 13 GHz 9 kHz to 20 GHz		–153 dBm typical to 1 GHz	Typical dynamic range of 100 dB Typical phase noise of –110 dBc/Hz at 10 kHz offsets up to 6 GHz
MS2721B	9 kHz to 7.1 GHz	1 Hz to 3 MHz	-163 dBm typical to 1 GHz, 1 Hz RBW	■ RF and demodulator measurement capabilities with pass/fail functions
MS2723B	9 kHz to 13 GHz		-156 dBm typical to 1 GHz, 1 Hz RBW -139 dBm typical to 1 GHz, 1 Hz RBW	■ 13 software options for wireless measurements from GSM to Mobile WiMAX
MS2724B	9 kHz to 20 GHz		-156 dBm typical to 1 GHz, 1 Hz RBW -136 dBm typical to 1 GHz, 1 Hz RBW	. Hom Gold to Mobile Wilvia
MS2690A MS2691A MS2692A Signal Analyzer	50 Hz to 6.0 GHz 50 Hz to 13.5 GHz 50 Hz to 26.5 GHz	Spectrum Analyzer Mode 30 Hz to 20 MHz Signal Analyzer Mode 1 Hz to 1 MHz	Down to –155 dBm (option and frequency dependent)	World class dynamic range 125 MHz analysis bandwidth Excellent accuracy of level and modulation analysis up 6 GHz Excellent accuracy of level and modulation analysis up 6 GHz High speed modulation analysis Supports GSM/EDGE/EDGE evolution, HSPA, LTE, and Mobile WiMAX
MS8608A Digital Mobile Radio Transmitter Tester	9 kHz to 7.8 GHz	411-4-20-111	Down to -146.5 dBm	 Excellent performance for evaluating W-CDMA modulation signals Supports GSM/EDGE, HSDPA, WLAN/802.11, CDMA, 1xEVDO, and Pi/4DQPSK (PHS, PDC, 10.436) measurements.
MS8609A Digital Mobile Radio Transmitter Tester	9 kHz to 13.2 GHz	1 Hz to 20 MHz	(option and frequency dependent)	IS-136) measurements Resolution bandwidth of up to 20 MHz via built-in spectrum analyzer Power can be measured with an accuracy of ±0.4 dB using the power sensor

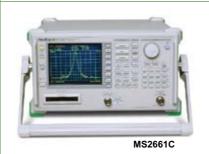
Take advantage of a large selection of options

to handle a wider range of applications at a reasonable cost.



Spectrum Analyzers

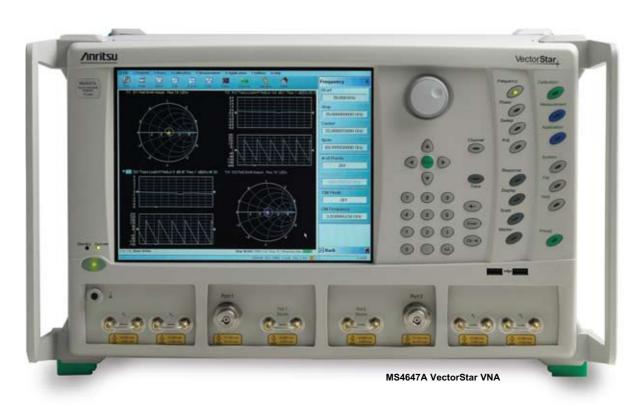
Superior performance. Advanced capabilities. Affordable pricing. The Anritsu family of spectrum analyzers delivers high frequency/ level accuracies and a broad set of smart, intuitive features including models with built-in one-button measurements.





Vector Network Analyzers

Vector Network Analyzer	Features	Benefits	Applications
VectorStar Family Microwave and mmWave VNA	Broadest frequency span from a single coaxial test port covering 70 kHz to 70 GHz in a single instrument and 70 kHz to 110 GHz in the Broadband configuration	Obtain the most thorough and accurate broadband device characterization. Eliminate time consuming concatenation process across the RF, microwave/mm-wave bands. Decrease test instrument expenses by eliminating the need for a 2nd RF VNA. Reduce the risk of DC extrapolation errors in your device modeling.	 Device characterization Microwave and millimeter wave component test
MS4640A Series	Fastest swept synthesized measurement speed < 20 µsec per point	Increase manufacturing revenue by increasing throughput. Quickly and easily spot the most hard to find failures and reduce the risk of shipping defective products.	■ On-wafer
70 kHz to 70 GHz	Superior Dynamic Range – up to 140 dB	Accurately measure medium and high loss devices. Catch all potential filter feed-throughs in out-of-band regions.	■ Waveguide S-parameters ■ R&D and production environments
MS4642A Series	High compression point – up to15 dBm at 70 GHz	Eliminate the need for additional attenuators. Improve calibration and measurement accuracy.	Mixer measurements including automatic de-embedded measurement
70 kHz to 10 MHz to 20 GHz	Best test port characteristic – up to 50 dB Directivity, Source Match, Load Match	Reduce measurement uncertainty Reduce measurement guard bands Improve productivity Optimum precision in R&D	with absolute phase and group delay
	Highest point resolution – 100,000 points	Zoom in on narrow band responses without re-calibration.	■ Embed/De-embed applications
MS4644A Series 70 kHz to 10 MHz to 40 GHz	Best device modeling data	 Accelerate design cycle Accurate DC modeling Eliminate the need for 2nd VNA 	■ Amplifier testing
	Best time domain analysis	100,000 points and 700 kHz frequency step size provide the most accurate, highest resolved, Low Pass Mode measurements. Measure long transmission lines with the best non-aliasing range.	■ Broadband characterization ■ Parameter extraction
MS4647A Series 70 kHz to 10 MHz to 70 GHz	Most convenient automatic calibration system with best accuracy	Use Precision AutoCal for an easy, one-button method of VNA calibration and better accuracy than traditional SOLT calibration. Spend less time setting up the VNA for the next production run.	■ Device modeling
ightning Family Microwave and mmwave VNA 0 MHz to 20, 40, 67 GHz	Best performance to price ratio Excellent dynamic range and te reliable measurements. Many of the advanced high perfincluding; wide range of calibrat De-embedding, multiple source	 Passive devices Active devices Mixers E/O and O/E On-wafer 	
MS4630B RF VNA 10 Hz to 300 MHz	 Accurate magnitude and phase Filter and resonator analysis fur High-speed device evaluation 	■ Passive filters, resonators for both R&D and manufacturing ■ Optimized for IF measurements	





The versatility to completely characterize

wireless components and systems.

Vector Network Analyzers

Anritsu VNAs encompass a wide range of high-performance, component test tools designed to address the growing needs of wireless, satellite, defense, broad-band communication and optoelectronic components markets. Choose between the VectorStar and Lightning family of VNAs for the ideal solution of advanced performance, accuracy and reliability for measuring any active or passive device or system - from characterization and designing to manufacturing and verification.



Power Meters | Signal Analyzers

Power Meters (RF Microwave)

Anritsu power meters provide accurate measurements for the full range of communications, wireless and aerospace applications.



Power Meter	Frequency	VBW	Dynamic Range (dBm)	Channels
ML2437A Power Meter	100 kHz to 65 GHz	100 kHz	–70 to +20 dBm	1
ML2438A Power Meter	Sensor dependent	100 kHz	Sensor dependent	2
ML2487B Wideband Peak Power Meter	50 MHz to 18 GHz	20 MHz	-60 to +20 dBm	2
ML2488B Wideband Peak Power Meter	Sensor dependent	20 MHz	Sensor dependent	2
ML2495A Wideband Peak Power Meter	100 kHz to 65 GHz	65 MHz	-70 to +20 dBm	1
ML2496A Wideband Peak Power Meter	Sensor dependent	65 MHz	Sensor dependent	2
ML2530A Calibration Receiver	100 kHz to 3 GHz	100 kHz	Range dependent	1

The preferred choice of service providers, network operators and contractors WOrldwide.

Signal Analyzers

Technicians looking for exceptional engineering insight for advanced RF and communications products need to look no further. Anritsu Signal Analyzers offer cost-effective solutions with integrated Fixed and Mobile WiMAX measurements, industry-best DANL and dynamic range and comprehensive W-CDMA/HSDPA measurements.



Signal Analyzer	Frequency	RBW	Noise Level	Key Features
MS2690A MS2691A MS2692A Signal Analyzer	50 Hz to 6.0 GHz 50 Hz to 13.5 GHz 50 Hz to 26.5 GHz	Signal Analyzer Mode 1 Hz to 1 MHz Spectrum Analyzer Mode 30 Hz to 20 MHz	Down to –155 dBm (option and frequency dependent)	World class dynamic range 125 MHz analysis bandwidth Excellent accuracy of level and modulation analysis up 6 GHz Excellent accuracy of level and modulation analysis up 6 GHz High speed modulation analysis Supports GSM/EDGE/EDGE evolution, HSPA, LTE, and Mobile WiMAX

Synthesized Signal Generators

Anritsu provides the best

synthesized signal generator solutions.



MG37020A

Synthesized Signal Generators

Whether you test in the microwave, fixed or mobile satellite communications or defense industries, Anritsu provides the best synthesized signal generator solutions. With high-signal purity, low noise and excellent frequency stability, our signal generators are a fundamental measuring instrument for your lab or manufacturing site. Choose instruments with a full range of modulation capabilities for signal simulations from simple to the most complex, including Amplitude (AM), Frequency (FM), Phase (Φ) and Pulse (PM). Plus, you'll find a series of configurable and upgradable broadband highperformance signal generators that meet your exact specifications.

Signal Generator	Frequency Range	Key Features	Key Applications
MG3641A Synthesized Signal Generator	125 kHz to 1040 MHz	■ 0.01 Hz resolution ■ -100 dBc non-harmonic spurious	 Radio receiver interference testing On-site maintenance R&D
MG3642A Synthesized Signal Generator	125 kHz to 2080 MHz	■ 0.01 Hz resolution ■ -100 dBc non-harmonic spurious	 Radio receiver interference testing On-site maintenance R&D
MG3681A Digital Modulation Signal Generator	250 kHz to 3000 MHz	 Broadband vector modulation Excellent ACPR Analog modulation 	 3GPP applications All major mobile and communication applications HSDPA
MG3690B Series RF/Microwave Signal Generator	0.1 Hz to 67 GHz/325 GHz and greater	■ High-performance ■ High-output power ■ Ultra-low phase noise ■ Analog/Pulse modulation	 Microwave communications Aerospace/defense Applications signal simulation Manufacturing ATE systems
MG37020A Fast Switching Microwave Signal Generator	10 MHz to 20 GHz	■ Fast Switching Speed ■ High-output power ■ Low phase noise ■ Pulse modulation	 Microwave communications Aerospace/defense Applications signal simulation Manufacturing ATE systems
MG3700A Vector Signal Generator	250 kHz to 3 GHz (6 GHz option)	 160 MHz arbitrary waveform generator yields high-level accuracy and large capacity baseband memory 	■ Digital modulation of signals for all major wireless communication systems
MG724E1/G1 Signal Generator	6.3 to 7.8 GHz 12 to 13 GHz	■ Compact high-performance	■ Line repeater ■ Maintenance

Handheld Solutions

Don't let their size fool you. These rugged, lightweight and easy-to-use instruments deliver powerful, field-tested, lab-approved reliability and accuracy to the palm of your hand—and to wherever there's microwave or communication systems issues.



Delivering benchtop performance

in a handheld instrument.

Handheld Cable and Antenna Analyzer: Site Master™

As powerful as it is easy to use, more field technicians choose Site Master than any other handheld analyzer. And for applications as VHF, broadcasting, paging, Land Mobile Radio, cellular, GPS, PCS/GSM, 2.5G, 3G, WLAN and WiMAX, Site Master delivers accurate, repeatable measurements.

Site Master	Frequency	Measurements		
S311D Cable and Antenna Analyzer	2 MHz to 1600 MHz	■ Return Loss	■ SWR ■ Distance-To-Fault	
S331D Cable and Antenna Analyzer	2 MHz to 6000 MHz	■ Cable Loss		
S312D Cable, Antenna and Spectrum Analyzer	2 MHz to 1600 MHz cable and antenna analyzer, 100 kHz to 1.6 GHz spectrum analyzer	■ Return Loss ■ SWR	 Channel Power Field strength Interference Analysis Occupied Bandwidth Transmission Measurement 	
S412D Cable, Antenna, Spectrum, Interference, and P25 / iDEN Modulation Analyzer	2 MHz to 1600 MHz cable and antenna analyzer, 100 kHz to 1.6 GHz spectrum analyzer	 Cable Loss Distance-To-Fault Adjacent Channel Power Ratio P25 Transmitter and 		
S332D Cable and Antenna Analyzer	2 MHz to 6000 MHz cable and antenna analyzer, 100 kHz to 3 GHz spectrum analyzer	Coverage Measurements (S412D only)	ients	
S810D Broadband Microwave Transmission Line and Antenna Analyzer	2 MHz to 10.5 GHz	■ Return Loss ■ 1-port Cable Loss	■ Distance-To-Fault ■ 2-port Cable Loss ■ Coax and waveguide VSWR	
S820D Broadband Microwave Transmission Line and Antenna Analyzer	2 MHz to 20 GHz			





Quickly and easily perform all measurements

for wireless network deployment, installation and maintenance.

Handheld Base Station Analyzers: BTS Master™ and Cell Master™

BTS Master[™] is like having multiple tools in one compact instrument. You get the functionality of a transmitter analyzer (W-CDMA/HSDPA, GSM/GPRS/EDGE, WiMAX), plus all the features of the field-proven Spectrum Master.

Cell Master eliminates the need to carry, manage and learn multiple test sets. It includes a transmitter analyzer (GSM, CDMA, cdmaOne, CDMA2000 1xRTT, and CDMA2000 1xEV-DO), a transmission analyzer for 2-port devices, interference analyzer, channel scanner, GPS receiver, CW signal generator (tests LNAs, repeaters or base station receiver sensitivity) and T1/E1 analyzer.

Base Station Analyzer	Frequency	Measurements	
MT8222A BTS Master	10 MHz to 6 GHz (Built-in cable and antenna analyzer) 100 kHz to 7.1 GHz (Built-in spectrum analyzer) 10 MHz to 7.1 GHz (Built-in power meter)	■ Spectrum analysis ■ Interference analysis ■ Cable Loss ■ Mobile WiMAX (802.16-2005) ■ Fixed WiMAX (802.16-2004) ■ W-CDMA/HSDPA code domain power	 Channel scanner Return Loss GSM/EDGE channel power Distance-To-Fault GPS receiver CDMA/EVDO measurements
MT8212B Cell Master	25 MHz to 4 GHz (Built-in cable and antenna analyzer) 100 kHz to 3 GHz (Built-in spectrum analyzer) 4.5 MHz to 3.0 GHz (Built-in power meter)	■ Return Loss ■ Distance-To-Fault ■ Interference analyzer ■ Transmitter measurements (cdmaOne, CDMA2000 1xRTT, CDMA2000 1xEV-DO, GSM, iDEN)	 Cable Loss Channel scanner GPS receiver T1/E1 analyzer Transmission analyzer for 2-port devices

Eye Pattern Measurements just got personal.

Handheld Analyzer for Next Generation Networks: Bit Master™

The Bit Master conducts economical mask compliance testing on transmitter outputs using eye pattern measurements. Fully portable, it serves engineers in the lab, production line, and in test labs.



MP1026B

Eye Pattern Analyzer	Frequency	Measurements
MP1026B Bit Master	0.1 to 12.5 Gbps	■ Supports OC-192/STM-64 SONET/SDH, 10G Fibre Channel, and 10G Ethernet ■ Optional integrated Optical/Electronic converter ■ Compliance masks and mask margin percentage for Industry Standards

Handheld Solutions



Handheld Vector Network Analyzers: VNA Master™

Need unparalleled performance and essential RF capabilities at modest prices? Enter the VNA Master series—simply the most advanced ultra-portable handheld VNAs on the market.

VNA Master	VNA Frequency	SPA Frequency	Measurements	
MS2024A	2 MHz to 4 GHz	_	■ Return Loss ■ Cable Loss ■ VSWR ■ 1-port phase	
MS2026A	2 MHz to 6 GHz	_	■ 2-port phase ■ Smith chart ■ 2-port gain ■ Distance-To-Fault	
MS2034A	2 MHz to 4 GHz	100 kHz to 9 GHz	MS202xA measurements plus: ■ High-performance spectrum analysis ■ Channel scanner ■ Interference analysis	
MS2036A	2 MHz to 6 GHz	100 kHz to 9 GHz		



Handheld Spectrum Analyzers: Spectrum Master™

As the de facto industry standard, the Spectrum Master series provides ultimate measurement flexibility in a lightweight, rugged package for field environments and mobile applications. With frequencies ranging from 9 kHz to 20 GHz, the Spectrum Master is ideal for such applications as identifying sources of interference, measuring field strength of cellular, satellite and military land mobile signals, field analysis of 802.11a/b/g wireless LAN signals and measurement of RF output from circuits, devices and instruments.

Spectrum Master	Frequency	RBW	Noise Level (dBm)
MS2711D	100 kHz to 3 GHz	100 Hz to 1 MHz	–135 dBm
MS2721B	9 kHz to 7.1 GHz	1 Hz to 3 MHz	-163 dBm typical to 1 GHz in 1 Hz RBW
MS2723B	9 kHz to 13 GHz	1 Hz to 3 MHz	–156 dBm to 1 GHz, 1 Hz RBW –139 dBm to 3 GHz, 1 Hz RBW
MS2724B	9 kHz to 20 GHz	1 Hz to 3 MHz	–156 dBm to 1 GHz, 1 Hz RBW –136 dBm to 18 GHz, 1 Hz RBW

Specialized Products

Frequency Counters

Anritsu's frequency counters provide the most comprehensive frequency measurements in the industry.

Frequency Counter	Frequency	Key Features	Key Applications
MF2400 Microwave Frequency Counter	10 Hz to 20/27/40 GHz	 Wideband measurement High-accuracy burst measurement Analog display function Template function High-speed transient measurement Gating function 	 Mobile radio communications devices and circuits Carrier frequency and pulse width of burst signal

Instrumentation Grade Attenuators

Highly accurate, versatile and economical, Anritsu Instrumentation Grade Attenuators also provide GPIB standard and feature automatic measuring system components.

Grade Attenuators	Frequency	Key Features	Key Applications
MN63A/65A/72A/64B Programmable Attenuator	DC to 18 GHz	 Wide frequency range High accuracy Long operating life High-speed switching 	■ R&D ■ Inspection ■ Production

Precision Components, Precision Measurements

Technicians rely on Anritsu for industry-leading design and production of precision microwave components.

- Precision coaxial connector systems to 65 GHz
- High-directivity SWR auto testers and bridges
- Precision terminations and air lines
- Precision step attenuators
- Precision bias tees

- Precision coaxial and waveguide to coax adapters
- RF detectors
- Precision fixed attenuators
- Precision power dividers and splitters
- Broadband microwave limiters





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