

# Anritsu RF & Microwave Handheld Analyzers Solutions



Options (See Specifications for a complete list of measurements)	Models	Cable and Antenna Analyzers					Base Station Analyzers			Spectrum Analyzers			Vector Network Analyzers				PIM Analyzers			
		Site Master™					LMR Master™	Cell Master™	BTS Master™	Spectrum Master™			VNA Master™				PIM Master™			
		Value	Mid-Level Performance		High Performance		Mid-Level Performance		High Performance	Value	Mid-Level Performance	High Performance	Mid-Level Performance		High Performance		High Performance			
Option Numbers	S331P	S331L	S331E S361E	S332E S362E	S820E	S412E	MT8212E MT8213E	MT8220T	MS2711E	MS2712E MS2713E	MS2720T	MS2024B MS2025B	MS2034B MS2035B	MS2026C MS2027C MS2028C	MS2036C MS2037C MS2038C	MW82119B				
<b>Cable &amp; Antenna Analyzer</b>																				
<b>Frequency Range</b>		150 kHz to 4/6 GHz	2 MHz to 4 GHz	2 MHz to 4 / 6 GHz	2 MHz to 4 / 6 GHz	1 MHz to 40 GHz	500 kHz to 1.6 GHz	2 MHz to 4 / 6 GHz	400 MHz to 6 GHz					500 kHz to 4 / 6 GHz	500 kHz to 4 / 6 GHz		2 MHz to 3 GHz			
1-port Measurements		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard					Standard	Standard		Option 331			
2-port 1-path Measurements						Standard	Standard	Standard	Standard					Standard	Standard					
2-port Transmission Measurement	0021			•	•	Standard		•		In Option 0020	In Option 0020	In TG Option								
2-port Swept Cable Loss Measurement (external USB sensor required)			Standard			Standard														
USB Sensor Transmission Measurement		•				•														
SkyBridge Tools™ Trace Manager Empowered MX002001B-TL101			•	•	•	•											•			
<b>Spectrum Analyzer</b>																				
<b>Frequency Range</b>					9 kHz to 4 / 6 GHz		9 kHz to 1.6 GHz	9 kHz to 4 / 6 GHz	150 kHz to 7.1 GHz	9 kHz to 3 GHz	9 kHz to 4 / 6 GHz	9 kHz to 43 GHz		9 kHz to 4 / 6 GHz		9 kHz to 9 / 15 / 20 GHz				
Preamplifier	0008				Standard		Standard	Standard	Standard	•	Standard	Standard		Standard		Standard				
Interference Analyzer / Channel Scanner	0025 / 0027				•		•	•	•	•	•	•		•		•				
AM/FM/PM Measurements	509				•		•	•	•	•	•	•		•		•				
Gated Sweep	0090				•		•	•	•	•	•	•		•		•				
Zero-Span IF Output / IQ Waveform Capture	0089 / 0024						•	•	•	•	•	•		•		•				
EMF Measurements	0444				•		•	•	•	•	•	•		•		•				
Interference Analyzer/Channel Scanner																				
Handheld InterferenceHunter™	MA2700A				•		•	•	•	•	•	•		•		•				
Mobile Interference Hunter™	MX280007A				•		•	•	•	•	•	•		•		•				
Coverage Mapping (Indoors and Outdoors)	0431				•		•	•	•	•	•	•		•		•				
TRX NEON® Signal Mapping (3D In-Building)	MA8100A				•		•	•	•	•	•	•		•		•				
<b>Vector Network Analyzer</b>																				
<b>Frequency Range</b>							500 kHz to 1.6 GHz see Frequency Opt.							500 kHz to 4 / 6 GHz	500 kHz to 4 / 6 GHz	5 kHz to 6 / 15 / 20 GHz	5 kHz to 6 / 15 / 20 GHz			
S-Parameters							S <sub>11</sub> , S <sub>21</sub>							S <sub>11</sub> , S <sub>21</sub>	S <sub>11</sub> , S <sub>21</sub> , S <sub>12</sub> , S <sub>22</sub>					
Vector Voltmeter	0015						•							•	•	•	•			
Time Domain and Distance Domain	0002																			
Distance Domain only	0501						•							•	•	•	•			
Balanced/Differential S-Parameters, 1-port	0077													•	•	•	•			
<b>Frequency Options</b>																				
6 GHz (for Spectrum Analyzer Mode)	0006						•											LTE Bands	Name	Option
6 GHz (for Cable and Antenna and VNA Analyzer Mode)	0016						•											12, 13, 14, 17	LTE 700	0700
8 GHz	0708					•												28	APT 700	0702
9 GHz	0709											•						20	LTE 800	0800
13 GHz	0713											•						5	Cellular 850	0850
14 GHz	0714					•						•						8	E-GSM 900	0900
20 GHz	0720					•						•						3	DCS 1800	0180
30 GHz	0730					•						•						2,4	AWS/PCS 1900/2100	0194
32 GHz	0732											•						1	UMTS 2100	0210
40 GHz	0740					•						•						7	LTE 2600	0260
43 GHz	0743											•								
<b>Signal Generators</b>																				
Tracking Generator (TG) 3, 4, or 6 GHz	0020									•	•									
Tracking Generator (TG) 9 GHz	0809																			
Tracking Generator (TG) 13 GHz	0813																			
Tracking Generator (TG) 20 GHz	0820																			
CW Generator	0028				•		Standard	•	In VSG Option	In TG Option	In TG Option	In TG Option								
Vector Signal Generator (VSG)	0023								•											
<b>Power Meters</b>																				
Power Meter	0029				Standard		Standard	Standard	Standard	•	•									
High Accuracy Power Meter Support (requires USB power sensor)	0019				Standard	•	•	Standard	•	•	•	•		•	•	•	•			•
<b>Wireless Signal Measurements</b>																				
Demodulation Hardware	0009								Standard	Standard	Standard	•	•							
GSM/GPRS/EDGE Measurements	0040	0041										•	•							
W-CDMA/HSPA+ Measurements	0044	0065	0035									•	•							
TD-SCDMA/HSPA+ Measurements	0060	0061	0038									•	•							
LTE Measurements	0541	0542	0546						•	•	•	•	•							
TD-LTE Measurements	0551	0552	0556									•	•							
CDMA2000 1X Measurements	0042	0043	0033									•	•							
CDMA2000 1xEV-DO Measurements	0062	0063	0034									•	•							
Fixed WiMAX Measurements	0046	0047							•	•	•	•	•							
Mobile WiMAX Measurements	0066	0067	0037						•	•	•	•	•							
<b>Digital TV Signal Measurements</b>																				
DVB-T/H Measurements	0064	0078	0057									•	•							
ISDB-T Measurements	0030	0032	0079									•	•							
<b>Land Mobile Radio Measurements</b>																				
NBIFM Measurements									Standard											
P25 and P25 Phase 2 Measurements	0521	0522							•											
NXDN Measurements	0531	0532							•											
DMR2 Measurements	0591	0592							•											
PTC Measurements	0721	0722							•											
TETRA Measurements	0581	0582							•											
<b>Backhaul Analyzer Measurements</b>																				
T1, E1, T3/T1 (Mutually Exclusive)	0051	0052	0053						•											
<b>General Options</b>																				
GPS Receiver	0031				2000-1723-R	•	•	2000-1723-R	•	•	Standard	•	•	•	•	•	•			•
Bias Tee (built-in)	0010					•	•		•	•	•	•	•	•	•	•	•			•
Secure Data Operation	0007											•	•	•	•	•	•			•
Ethernet Connectivity	0411				•	•	Standard			Standard		•	•	Standard	•	•	Standard	Standard		Standard
K Test Port Connectors	0011						Standard ≥ 20 GHz					•	•	Standard ≥ 32 GHz	•	•	Optional ≥ 15 GHz	Optional ≥ 15 GHz		•
Standard / Premium Calibration	0098 / 0099				•	•	•	•	•	•	•	•	•	•	•	•	•	•		•