

## Quick Fact Sheet

# Cell Master™ MT8212E / MT8213E

## Compact Handheld Base Station Analyzer

### MT8212E

2 MHz to 4 GHz  
100 kHz to 4 GHz  
10 MHz to 4 GHz

### MT8213E

2 MHz to 6 GHz  
100 kHz to 6 GHz  
10 MHz to 6 GHz

Cable and Antenna Analyzer  
Spectrum Analyzer  
Power Meter

## 30 Analyzers in One

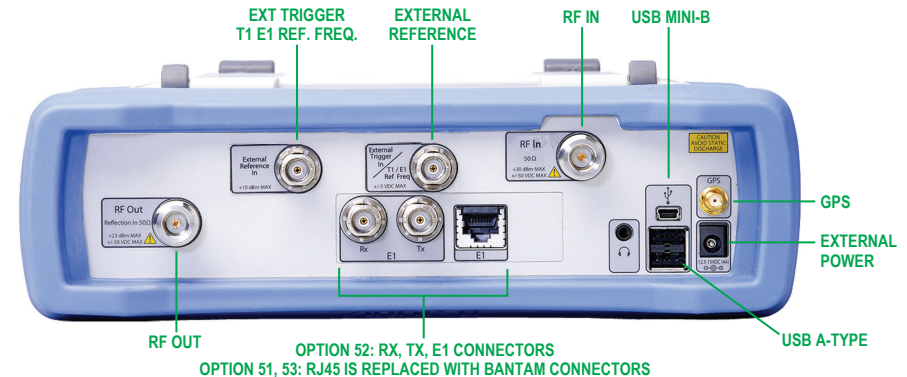
The MT8212E Cell Master™ Base Station Analyzer is the smallest, lightest, and most economical solution for 2G/3G/4G and WiMAX, base station transmitter testing and ISDB-T and DVB-T/H digital broadcast field testing. They're ideal for installation and commissioning as well as for maintenance and troubleshooting. This optimal combination of base station test capabilities in one handheld device eliminates the need for several independent test instruments, thereby reducing the number of tools the user must carry and learn to operate. Whether it's sweeping cables, making power measurements, finding interference, troubleshooting base station signal quality, or verifying backhaul performance, the Cell Master is the ideal all-in-one instrument to help keep your network up and running.

## Cable and Antenna Analyzer Highlights

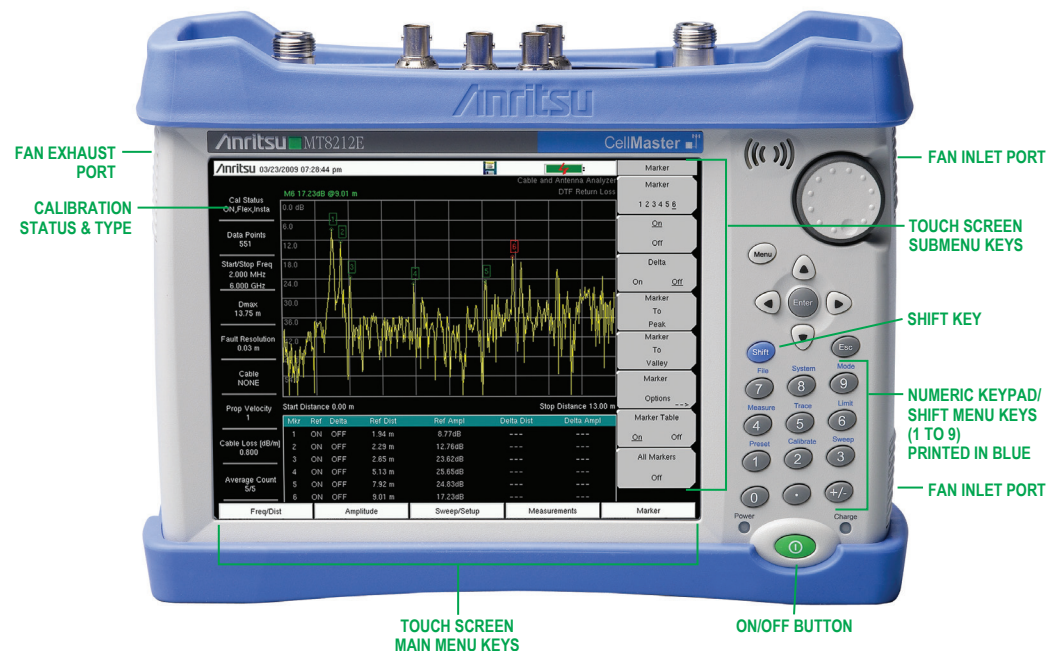
- > Measurements: RL, VSWR, Cable Loss, DTF, Phase
- > 2-port Transmission Measurement: High/Low Power
- > Sweep Speed: 1 msec/data point, typical
- > Display: Single or Dual Measurement Touchscreen
- > Calibration: OSL, InstaCal™, and FlexCal™
- > Bias Tee: 32 V internal

## Spectrum and Interference Analyzer Highlights

- > Measurements: Occupied Bandwidth, Channel Power, ACPR, C/I
- > Interference Analyzer: Spectrogram, Signal Strength, RSSI, Interference Mapping
- > Dynamic Range: >102 dB in 1 Hz RBW
- > DANL: -162 dBm, typical in 1 Hz RBW
- > Phase Noise: -100 dBc/Hz max @ 10 kHz offset at 1 GHz
- > Frequency Accuracy: ± 50 ppb with GPS On



ALL CONNECTORS ARE CONVENIENTLY LOCATED ON THE TOP PANEL, LEAVING THE SIDES CLEAR FOR HANDHELD USE



HANDHELD SIZE: 273 X 199 X 91 MM (10.7 X 7.8 X 3.6 IN), LIGHTWEIGHT: 3.71 KG (8.2 LBS)



# Cell Master™ MT8212E / MT8213E

## Compact Handheld Base Station Analyzer



### Key Specifications

Spectrum Analyzer	
Frequency	100 kHz to 4 GHz (MT8212E), 100 kHz to 6 GHz (MT8213E)
Dynamic Range	>102 dB in 1 Hz RBW
DANL	-162 dBm, typical in 1 Hz RBW
Phase Noise	-100 dBc/Hz max @ 10 kHz offset at 1 GHz
General	
Internal Trace	2,000 traces, 2,000 Setups
External Trace	Limited by the size of the USB Flash drive
Connectivity:	5-pin mini-B, Connect to PC for data transfer and/or remote control
Display:	Resistive touch screen, 8.4" daylight viewable color LCD, Resolution 800 x 600
Temperature:	Operating Temperature -10 °C to 55 °C
Battery:	Li-Ion, 3.0 hours typical
Dimensions:	273 mm x 199 mm x 91 mm (10.7 in x 7.8 in x 3.6 in)
Weight:	3.71 kg, (8.2 lbs)

### Standard Accessories

Part Number	Description
10920-00060	Handheld Instruments Documentation Disc
10580-00250	Cell Master User Guide (includes Bias-Tee, GPS Receiver)
2000-1654-R	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
11410-00485	Cell Master MT8212E/MT8213E Technical Data Sheet
One Year Warranty (Including battery, firmware, and software)	
Certificate of Calibration and Conformance	

### Optional Accessories

#### Portable Antennas



#### Precision Adapters



### Options

Option Number	Description
Option 0010	High Voltage Variable Bias Tee
Option 0021	2-Port-Transmission Measurement
Option 0031	GPS Built-in Receiver (Requires Antenna P/N 2000-1528-R, sold separately)
Option 0019	High Accuracy Power Meter (Requires USB Power Sensor)
Option 0030	ISDB-T Digital Video Measurements (Requires Option 9)
Option 0079	ISDB-T BER Measurements (Requires Option 30, cannot be ordered with Options 51, 52 or 53)
Option 0032	ISDB-T SFN Measurements (Requires Option 9)
Option 0064	DVB-T/H Digital Video Measurements
Option 0057	DVB-T/H BER Measurements (Requires Option 64, cannot be ordered with Options 51, 52 or 53)
Option 0078	DVB-T/H SFN Measurements
Option 0025	Interference Analyzer
Option 0027	Channel Scanner
Option 0431	Coverage Mapping (Requires Option 31)
Option 0090	Gated Sweep
Option 0028	C/W Signal Generator (Requires CW Signal Generator Kit, P/N 69793)
Option 0040	GSM/EDGE RF Measurements
Option 0041	GSM/EDGE Demodulation
Option 0044	W-CDMA/HSPA+ RF Measurements
Option 0065	W-CDMA/HSPA+ Demodulation
Option 0035	W-CDMA/HSPA+ OTA Measurements
Option 0060	TD-SCDMA/HSPA+ RF Measurements
Option 0061	TD-SCDMA/HSPA+ Demodulation
Option 0038	TD-SCDMA/HSPA+ OTA Measurements (Option 31 recommended)
Option 0541	LTE RF Measurements
Option 0542	LTE Modulation Measurements
Option 0546	LTE OTA Measurements (Option 31 recommended)
Option 0551	TD-LTE RF Measurements
Option 0552	TD-LTE Modulation Measurements
Option 0556	TD-LTE Over-the-Air (OTA) Measurements
Option 0042	CDMA RF Measurements
Option 0043	CDMA Demodulation
Option 0033	CDMA OTA Measurements (Requires Option 31)
Option 0062	EV-DO RF Measurements
Option 0063	EV-DO Demodulation
Option 0034	EV-DO OTA Measurements (Requires Option 31)
Option 0046	Fixed WiMAX RF Measurements
Option 0047	Fixed WiMAX Demodulation
Option 0066	Mobile WiMAX RF Measurements
Option 0067	Mobile WiMAX Demodulation
Option 0037	Mobile WiMAX OTA Measurements (Option 31 recommended)
Option 0051	T1 Analyzer (Cannot be ordered with Options 79 or 57)
Option 0052	E1 Analyzer (Cannot be ordered with Options 79 or 57)
Option 0053	T3/T1 Analyzer (Cannot be ordered with Options 79 or 57)
Option 0098	Standard Calibration
Option 0099	Premium Calibration

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