Cell Master™ MT8212E/MT8213E
compact Handheld Base Station Analyzer

Anritsu
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MT8212E	**MT8213E**	
2 MHz to 4 GHz	2 MHz to 6 GHz	Cable and Antenna Analyzer
100 kHz to 4 GHz	100 kHz to 6 GHz	Spectrum Analyzer
10 MHz to 5 GHz	10 MHz to 6 GHz	Power Meter

30 Analyzers in one

The Cell Master MT8212E and MT8213E base station analyzers are the smallest, lightest, and most economical solution for: 2G/3G/4G and WiMAX; base station transmitter testing, LTE CPRI and LTE OBSAI RF - Fiber over RF testing; ISDB-T; and DVB-T/H digital broadcast field testing. They're ideal for installation and commissioning, as well as for maintenance, RF over fiber CPRI and OBSAI RF measurements, 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 base station analyzers are the ideal, all-in-one instrument to help keep your network up and running.
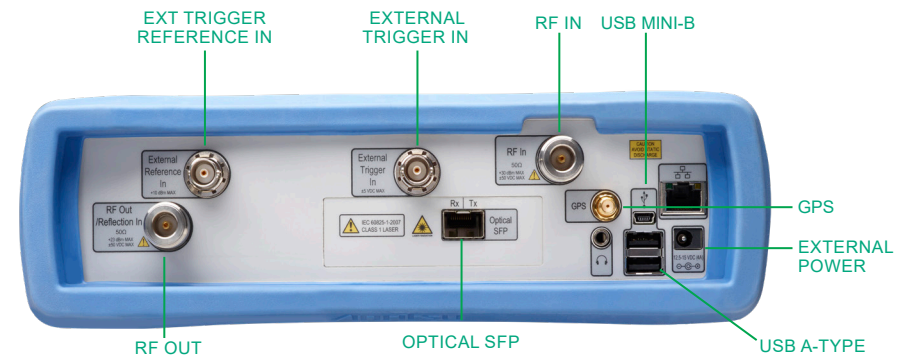
Cable and Antenna Analyzer Highlights

> 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
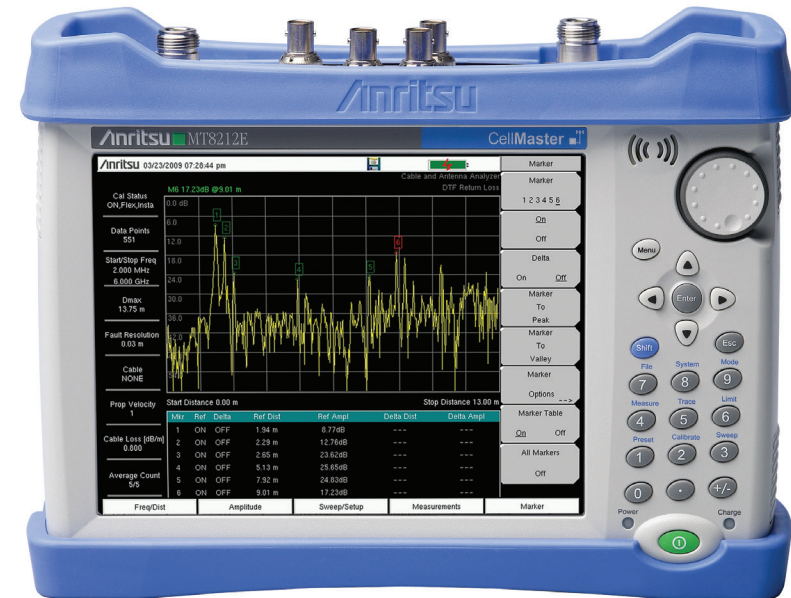
Spectrum and Interference Analyzer Highlights

> 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

RF Over Fiber Highlights

> LTE CPRI RF and LTE OBSAI RF
> Spectrum
> Spectrogram
> SFP Data
> CPRI and OBSAI Alarms

EXT TRIGGER REFERENCE IN — EXTERNAL TRIGGER IN — RF IN — USB MINI-B — GPS — EXTERNAL POWER — USB A-TYPE — RF OUT — OPTICAL SFP

ALL CONNECTORS ARE CONVENIENTLY LOCATED ON THE TOP PANEL, LEAVING THE SIDES CLEAR FOR HAND-HELD 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)

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Compact Handheld Base Station Analyzer

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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 touchscreen, 8.4” daylight viewable color LCD, Resolution 800 x 600
Temperature:	Operating Temperature –10 ºC to 55 ºC
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
2000-1654-R	Soft Carrying Case
2000-1691-R	Stylus with Coiled Tether
2000-1797-R	Touchscreen Protective Film, 8.4 in
633-75	Rechargeable Li-Ion Battery, 7500 mAh
40-187-R	AC-DC Adapter
806-141-R	Automotive Power Adapter, 12 VDC, 60 W
3-2000-1498	USB A/5-pin mini-B Cable, 10 feet/305 cm
One Year Warranty (Including battery, firmware, and software)	
Certificate of Calibration and Conformance	

Optional Accessories

Portable Antennas	Precision Adapters

Options

Option Number		Description
MT8212E-0010	MT8213E-0010	Bias-Tee
MT8212E-0021	MT8213E-0021	2-Port-Tranmission Measurement
MT8212E-0031	MT8213E-0031	GPS Receiver
MT8212E-0019	MT8213E-0019	High-Accuracy Power Meter (Reqs. External Power Sensor)
MT8212E-0025	MT8213E-0025	Interference Analyzer (Option 31 Recommended)
MT8212E-0027	MT8213E-0027	Channel Scanner
MT8212E-0431	MT8213E-0431	Coverage Mapping (Reqs. Option 31)
MT8212E-0444	MT8213E-0444	EMF Measurements (Reqs. Anritsu Isotropic Antenna)
MT8212E-0090	MT8213E-0090	Gated Sweep
MT8212E-0028	MT8213E-0028	C/W Signal Generator (Reqs. CW Signal Generator Kit, P/N 69793)
MT8212E-0752	MT8213E-0752	CPRI LTE RF Measurements (Reqs. Option 759)
MT8212E-0753	MT8213E-0753	OBSAI LTE RF Measurements (Reqs. Option 759)
MT8212E-0759	MT8213E-0759	RF over Fiber Hardware (Reqs. Option 752 or 753, cannot be ordered with Option 57 or 79)
MT8212E-0880	MT8213E-0880	GSM/GPRS/EDGE Measurements
MT8212E-0881	MT8213E-0881	W-CDMA/HSPA+ Measurements (Option 31 Recommended)
MT8212E-0882	MT8213E-0882	TD-SCDMA/HSPA+ Measurements (Option 31 for Full Functionality)
MT8212E-0883	MT8213E-0883	LTE/LTE-A FDD/TDD Measurements (Reqs. Option 31 for Full Functionality)
MT8212E-0886	MT8213E-0886	LTE 256 QAM Demodulation (Reqs. Option 883)
MT8212E-0884	MT8213E-0884	CDMA/EV-DO Measurements (Reqs. Option 31 for Full Functionality)
MT8212E-0885	MT8213E-0885	WiMAX Fixed/Mobile Measurements (Reqs. Option 31 for Full Functionality)
MT8212E-0887	MT8213E-0887	NB-IoT Analyzer
MT8212E-0030	MT8213E-0030	ISDB-T Digital Video Measurements
MT8212E-0079	MT8213E-0079	ISDB-T BER Measurements (Reqs. Option 30; cannot be ordered with Option 759)
MT8212E-0032	MT8213E-0032	ISDB-T SFN Measurements
MT8212E-0064	MT8213E-0064	DVB-T/H Digital Video Measurements
MT8212E-0057	MT8213E-0057	DVB-T/H BER Measurements (Reqs. Option 64; cannot be ordered with Option 759)
MT8212E-0078	MT8213E-0078	DVB-T/H SFN Measurements
MT8212E-0413	MT8213E-0413	Ethernet Connectivity
MT8212E-0098	MT8213E-0098	Standard Calibration (ANSI 2540-1-1944)
MT8212E-0099	MT8213E-0099	Premium Calibration (ANSI 2540-1-1994 plus test data)

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