

Quick Fact Sheet

BTS Master™ MT8220T High Performance Handheld Base Station Analyzer



MT8220T

400 MHz to 6.0 GHz
150 kHz to 7.1 GHz
10 MHz to 7.1 GHz

Cable and Antenna Analyzer
Spectrum Analyzer
Power Meter

The Complete, Multi-function Base Station Field Tester

Anritsu introduces the next generation high performance handheld Base Station Analyzer for installation and maintenance of wireless networks. The MT8220T BTS Master is the only all-in-one, touch screen handheld tool that combines cable and line sweeping, wireless measurements for all cellular standards, ultra-sensitive spectrum analysis, sophisticated interference tracking, a vector signal generator for receiver testing and CPRI/OBSAI RF measurements in a compact, easy-to-use instrument, and all backed up by a three-year warranty.

Cable and Antenna Analyzer Highlights

- > Measurements: RL, VSWR, Cable Loss, DTF, Phase, Gain
- > 2-port Gain Measurement Uncertainty: < 0.45 dB
- > 2-port Dynamic Range: > 100 dB
- > RF Immunity: +17 dBm on-channel, +10 dBm on-frequency
- > Calibration: OSL and FlexCal™
- > Bias Tee: 32 V internal

Spectrum and Interference Analyzer Highlights

- > Measurements: Occupied Bandwidth, Channel Power, ACPR, C/I, Field Strength, Spectral Emissions
- > Interference Analyzer: Spectrogram, Signal Strength, RSSI, Signal ID
- > Dynamic Range: > 95 dB in 1 Hz RBW
- > DANL: -163 dBm in 1 Hz RBW
- > Phase Noise: -100 dBc/Hz @ 10 kHz offset
- > Frequency Accuracy: ± 25 ppb with GPS On
- > Burst Detect™ Sweep Mode: sweep 1000x in 15 MHz span
- > Coverage Mapping: plot RSSI on on-screen map
- > Interference Mapping: on-screen mapping with triangulation

CPRI LTE RF Measurements

- > CPRI Spectrum
- > CPRI Spectrogram
- > CPRI Alarms
- > SFP Data Reader

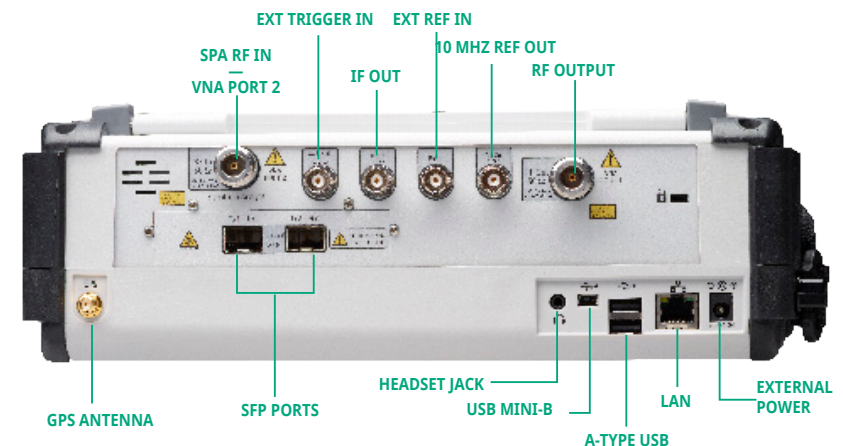
OBSAI LTE RF Measurements

- > OBSAI Spectrum
- > OBSAI Spectrogram
- > OBSAI Alarms
- > SFP Data Reader

BBU Emulation and RET Control for Nokia/ALu LTE (CPRI Only)
PIM over CPRI Measurements



HANDHELD SIZE: 315 MM X 211 MM X 71 MM (12.4 IN X 8.3 IN X 3.0 IN), LIGHTWEIGHT: 4.6 KG (10.2 LBS)



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



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Key Specifications

Spectrum Analyzer	
Frequency	150 kHz to 7.1 GHz
Dynamic Range	> 95 dB in 1 Hz RBW
DANL	-163 dBm in 1 Hz RBW
Phase Noise	-100 dBc/Hz @ 10 kHz offset
General	
Internal Trace	> 30,000 traces
External Trace	Limited by the size of the USB Flash drive
Connectivity	5-pin Mini-B, Connect to PC for data transfer
Display	8.4" Touch Screen, 800 x 600 Resolution
Temperature	Operating Temperature -10 °C to 55 °C
Battery	Li-Ion, 2.5 hours, typical
Dimensions	315 mm x 211 mm x 77 mm, (12.4 in x 8.3 in x 3.0 in)
Weight	4.6 kg, (10.2 lb)

Standard Accessories

Part Number	Description
2000-1686-R	Soft Carrying Case
2000-1760-R	GPS Antenna, SMA(m), 25 dB gain, 2.5 VDC to 3.7 VDC
2000-1691-R	Stylus with Coiled Tether
633-75	Rechargeable Li-Ion Battery, 7500 mAh
40-187-R	AC/DC Power Supply
806-141-R	Automotive Power Adapter 12 VDC, 60 Watts
2000-1371-R	Ethernet Cable, 213 cm (7 ft)
3-2000-1498	USB A-mini B Cable, 305 cm (10 ft)
	Certificate of Calibration

Options

Option Number	Description
MT8220T-0010	Bias-Tee
MT8220T-0019	High-Accuracy Power Meter (requires external power sensor)
MT8220T-0025	Interference Analyzer
MT8220T-0027	Channel Scanner
MT8220T-0089	Zero-Span IF Output
MT8220T-0431	Coverage Mapping
MT8220T-0090	Gated Sweep
MT8220T-0024	I/Q Waveform Capture
MT8220T-0023	Vector Signal Generator
MT8220T-0752	CPRI LTE RF measurements (requires Option 759)
MT8220T-0760	CPRI BBU Emulation ALU-Nokia LTE (requires Option 752)
MT8220T-0761	RET Device Test ALU-Nokia (requires Option 760)
MT8220T-0753	OBSAI LTE RF Measurements (requires Option 759)
MT8220T-0754	PIM over CPRI
MT8220T-0759	RF over Fiber hardware (requires Option 752 or 753)
MT8220T-0880	GSM/GPRS/EDGE Measurements
MT8220T-0881	W-CDMA/HSP+ Measurements
MT8220T-0882	TD-SCDMA/HSP+ Measurements
MT8220T-0883	LTE/LTE-A FDD/TDD Measurements
MT8220T-0886	LTE 256 QAM Demodulation (requires Option 883)
MT8220T-0884	CDMA/EV-DO Measurements
MT8220T-0885	WiMAX Fixed/Mobile Measurements
MT8220T-0887	NB-IoT Analyzer
MT8220T-0098	Standard Calibration to ISO/IEC 17025
MT8220T-0099	Premium Calibration to ISO/IEC 17025 plus test data

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