

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

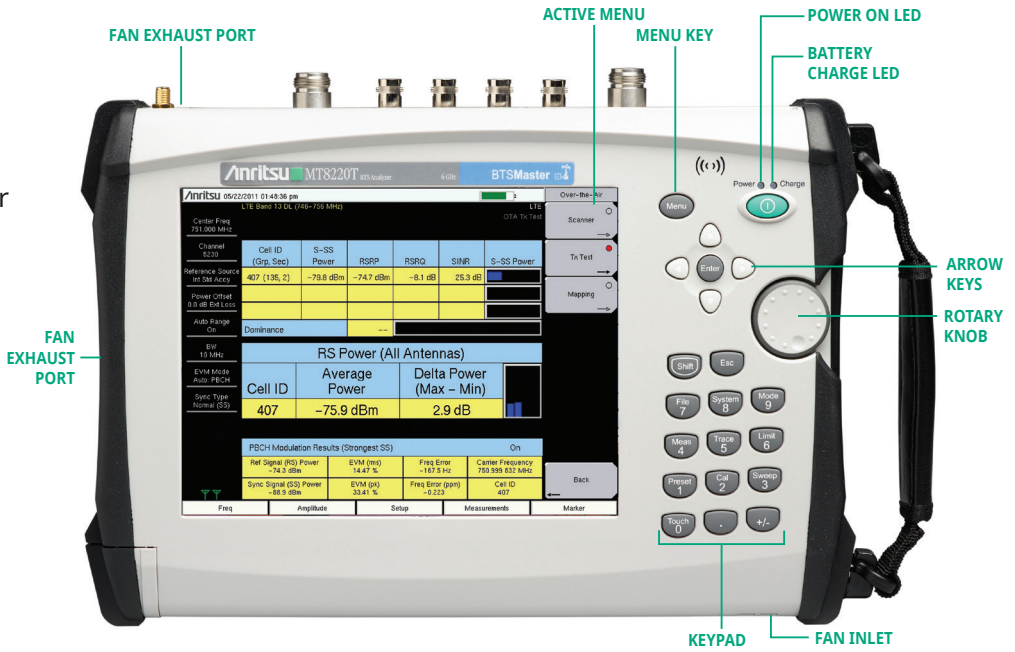
Anritsu introduces the next generation high performance handheld base station analyzer for installation and maintenance of wireless networks. The BTS Master MT8220T is the only all-in-one, touchscreen handheld tool that combines cable and line sweeping, wireless measurements for all cellular standards,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

Cable and Antenna Analyzer Highlights

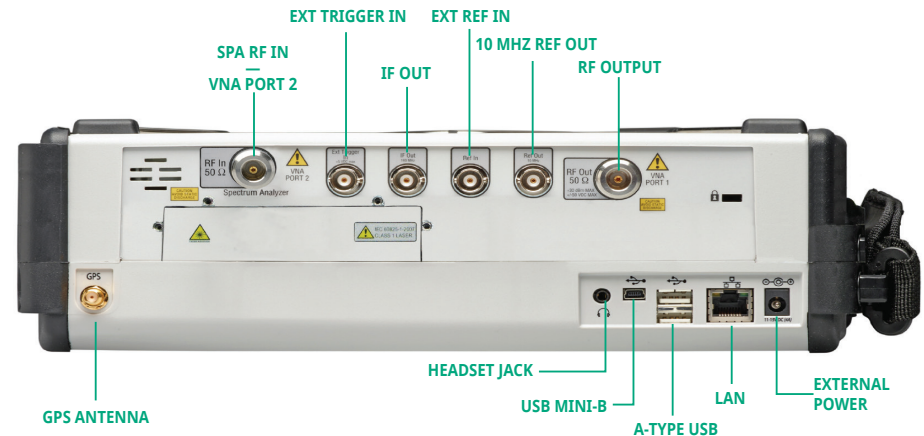
- > Measurements: RL, VSWR, Cable Loss, DTF, Phase, Gain
- > 2-Port Gain Measurement Uncertainty: < 0.45 dB
- > 2-Port Dynamic Range: > 100 dB
- > RF Immunity: +17 dBm on-channel, +10 dBm On-Frequency
- > Calibration: OSL and FlexCal™
- > Bias Tee: 32 V Internal

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
- > PIM Hunting



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

Quick Fact Sheet

BTS Master MT8220T High Performance Handheld Base Station Analyzer

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" Touchscreen, 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-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 |

