

BTS Master™ MT8221B / MT8222B

High Performance Handheld Base Station Analyzer



MT8221B

400 MHz to 4.0 GHz
150 kHz to 7.1 GHz
10 MHz to 7.1 GHz

MT8222B

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

Cable & Antenna Analyzer
Spectrum Analyzer
Power Meter

The Most Powerful Handheld Base Station Analyzer in the Field

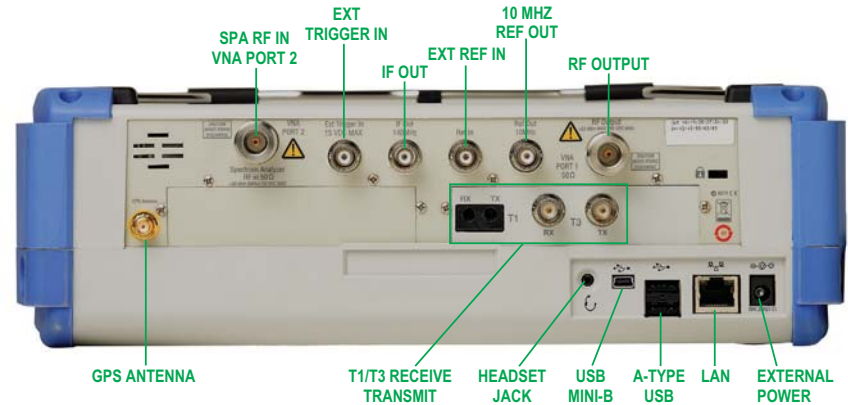
From the ground up, Anritsu's BTS Master has been designed to support 4G standards and installed 2G/3G networks. The BTS Master platform provides a 20 MHz demodulation capability to support LTE bandwidths from 1.4 to 20 MHz. It also features a 30 MHz Zero-Span IF Output for external demodulation of virtually any other wideband signal. In addition, a Vector Signal Generator option is available for comprehensive receiver testing capability with the flexibility to generate two modulated signals plus noise.

Cable and Antenna Analyzer Highlights

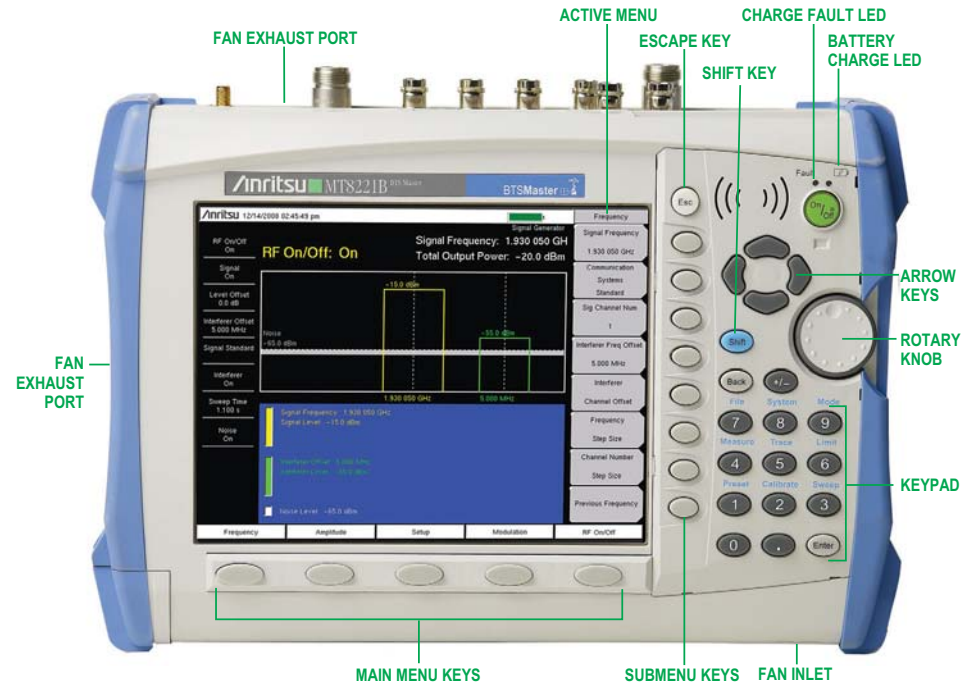
- > Measurements: RL, VSWR, Cable Loss, DTF, Phase, Gain
- > 2-port Gain Measurement Uncertainty: < 0.45 dB
- > 2-port Dynamic Range: > 80 dB
- > RF Immunity: +17 dBm on-channel, +10 dBm on-frequency
- > Calibration: OSL and FlexCal™
- > Bias Tee: 32 V internal

Spectrum and Interference Analyzer Highlights

- > Measurements: Occupied Bandwidth, Channel Power, ACPR, C/I
- > 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



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



HANDHELD SIZE: 315 MM X 211 MM X 94 MM (12.4 IN X 8.3 IN X 3.7 IN), LIGHTWEIGHT: 4.9 KG (10.7 LBS)



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Key Specifications

Spectrum Analyzer	
Frequency	400 MHz to 4 GHz (MT8221B), 400 MHz to 6 GHz (MT8222B)
Dynamic Range	> 95 dB (600 MHz, 3.5 GHz), 2/3 (TOI-DANL) 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" daylight viewable color LCD, Resolution 800 x 600
Temperature:	Operating Temperature -10 °C to 55 °C
Battery:	Li-Ion, 2.5 hours typical
Dimensions:	315 mm x 211 mm x 94 mm, (12.4 in x 8.3 in x 3.7 in)
Weight:	4.9 kg, (10.8 lbs)

Standard Accessories

Part Number	Description
10920-00060	Handheld Instruments Documentation Disc
10580-00207	BTS Master User Guide (includes Bias-Tee and GPS Receiver)
65681	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 Power Supply
806-141-R	Automotive Cigarette Lighter 12 Volt DC Adapter
3-806-152	Cat 5e Crossover Patch Cable, 7 feet/213 cm
2000-1371-R	Ethernet Cable, 7 feet/213 cm
3-2000-1498	USB A-mini B Cable, 10 feet/305 cm
1091-27-R	Type-N male to SMA female adapter
1091-172-R	Type-N male to BNC female adapter
11410-00442	BTS Master MT8221B 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	Bias-Tee
Option 0031	GPS Receiver
Option 0019	High Accuracy Power Meter (Requires USB Power Sensor)
Option 0025	Interference Analyzer
Option 0027	Channel Scanner
Option 0089	Zero-Span IF Output
Option 0431	Coverage Mapping
Option 0090	Gated Sweep
Option 0024	IQ/Waveform Capture
Option 0023	Vector Signal Generator
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 0031 Recommended)
Option 0541	LTE RF Measurements
Option 0542	LTE Modulation Measurements
Option 0546	LTE OTA Measurements (Requires Option 0031)
Option 0543	15 & 20 MHz LTE Modulation Measurements (Requires Option 541, 542, 551, or 552)
Option 0551	TD-LTE RF Measurements
Option 0552	TD-LTE Modulation Measurements
Option 0556	TD-LTE OTA Measurements (Requires Option 0031)
Option 0042	CDMA RF Measurements
Option 0043	CDMA Demodulation
Option 0033	CDMA OTA Measurements (Requires Option 0031)
Option 0062	EV-DO RF Measurements
Option 0063	EV-DO Demodulation
Option 0034	EV-DO OTA Measurements (Requires Option 0031)
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 0031 Recommended)
Option 0051	T1 Analyzer
Option 0052	E1 Analyzer
Option 0053	T3/T1 Analyzer
Option 0098	Standard Calibration to ISO/IEC 17025:2005
Option 0099	Premium Calibration to ISO/IEC 17025:2005 plus test data

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