

Quick Fact Sheet

VNA Master™ MS202xB / MS203xB

Handheld Vector Network Analyzer + Spectrum Analyzer



MS2024B

VNA: 500 kHz to 4 GHz

MS2025B

VNA: 500 kHz to 6 GHz

MS2034B

VNA: 500 kHz to 4 GHz

SPA: 9 kHz to 4 GHz

MS2035B

VNA: 500 kHz to 6 GHz

SPA: 9 kHz to 6 GHz

S-Parameter Analysis in the Field

The VNA Master™ MS202xB/3xB series is a compact handheld multi-function instrument that offers a portable yet powerful vector network analyzer, allowing you to do S-parameter analysis in the field – anytime, anywhere. The MS203xB models also offer a high-performance spectrum analyzer with industry-leading ultra-low noise floor. Based on Anritsu's 9th generation handheld platform, the VNA Master offers unmatched measurement breadth, depth, and precision; reducing the number of different tools needed to analyze modern communication systems in the field, on a tower, on a flightline or in a vehicle.

Vector Analyzer Key Features

Broadband coverage of 500 kHz to 4/6 GHz

1-path, 2-port Vector Network Analyzer

Intuitive Graphical User Interface (GUI) with convenient Touch Screen

VNA-quality error correction for directivity and source match

2-port Transmission Measurements: High/Low Power

+ Spectrum Analyzer Key Features

All of the above VNA features, PLUS:

Measure: Occupied Bandwidth, Channel Power, ACPR, C/I

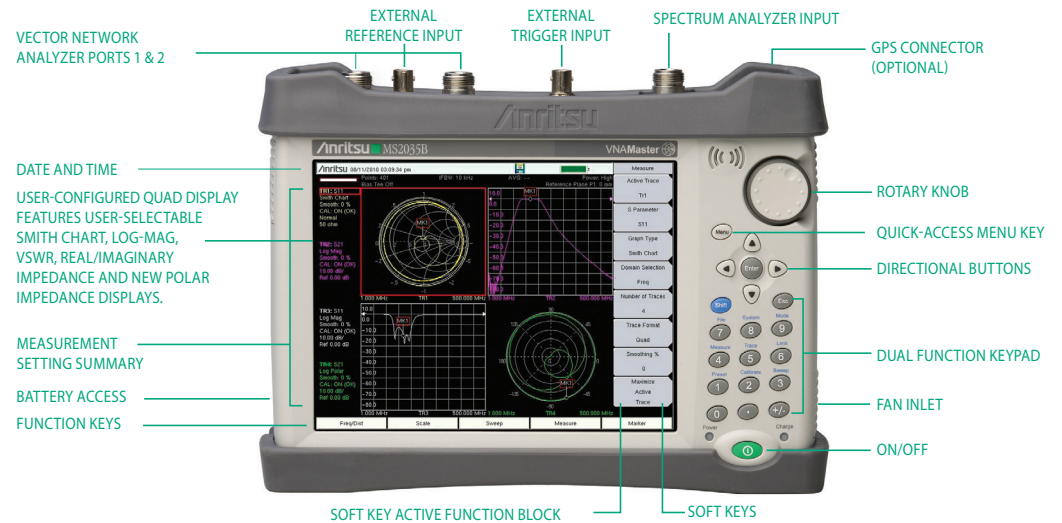
Interference Analyzer: Spectrogram, Signal Strength, RSSI, Signal ID

Frequency Accuracy: < ± 50 ppb with GPS On

Traces: Normal, Max Hold, Min Hold, Average, # of Averages

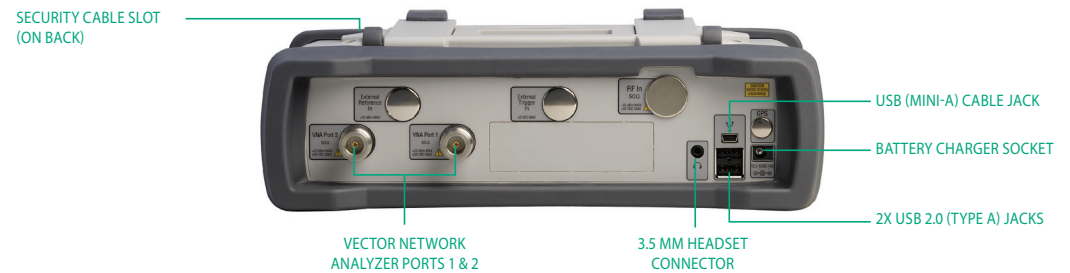
Detectors: Peak, Negative, Sample, Quasi-peak, and true RMS

Markers: 6, each with a Delta Marker, or 1 Reference with 6 Deltas

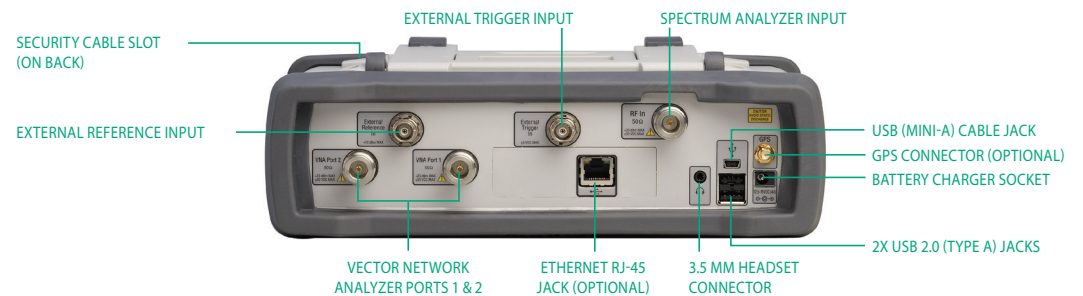


SIZE: 273 (W) X 199 (H) X 91 (D) MM (10.7 X 7.8 X 3.6 IN.). WEIGHT: 3.5 KG (7.6 LBS)

MS2024/25B VNA MASTER



MS2034/35B VNA MASTER + SPECTRUM ANALYZER



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



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Key Specifications

| Vector Network Analyzer (now with standard Distance To Fault (DTF)) | |
|---|--|
| Frequency | MS2024/34B 500 kHz to 4 GHz / MS2025/35B: 500 kHz to 6 GHz |
| Sweep Speed | 850 μs/data point |
| Directivity | > 42 dB at ≤ 6 GHz |
| Dynamic Range | > 95 dB in 10 Hz RBW |
| + Spectrum Analyzer (Models MS203xB Only) | |
| Frequency | MS2034B: 9 kHz to 4 GHz / MS2035B: 9 kHz to 6 GHz |
| Sweep Time | Minimum 100 ms, 10 μs to 600 seconds in zero span |
| Dynamic Range | > 95 dB (2.4 GHz), 2/3 (TOI-DANL) in 10 Hz RBW |
| General | |
| Internal Trace | >2,000 traces, >2,000 Setups |
| External Trace | Limited by the size of the USB Flash Drive |
| Connectivity | Ethernet, USB cable, USB Flash drive |
| Display | Resistive Touch Screen, 8.4 in. daylight viewable LCD 800 x 600 resolution |
| Temperature | Operating Temperature -10 °C to 55 °C, humidity 85% or less |
| Battery | Field replaceable Li-ion battery, 3.6 hours typical |
| Dimensions | 273 mm x 199 mm x 91 mm (10.7 in x 7.8 in x 3.6 in) |
| Weight: | 3.5 kg (7.6 lbs) including battery |

Options

| Option Number | Description |
|---------------|---|
| Option 10 | Built-in Variable Voltage Bias Tee |
| Option 15 | Vector Voltmeter |
| Option 19 | High Accuracy Power Meter (Requires USB Sensors, sold separately) |
| Option 25 | Interference Analysis (requires external antenna, option 31 recommended) (MS203xB Only) |
| Option 27 | Channel Scanner (requires external antenna) (MS203xB Only) |
| Option 31 | GPS Receiver (requires GPS antenna, sold separately) |
| Option 411 | Ethernet Connectivity |
| Option 431 | Coverage Mapping (requires option 31) (MS203xB Only) |
| Option 509 | AM/FM/PM Demodulation Analyzer (MS203xB Only) |
| Option 98 | Z-540 Calibration |
| Option 99 | Premium Calibration |

Standard Accessories

| Part Number | Description |
|-------------|--|
| 2000-1691-R | Stylus with Coiled Tether |
| 2000-1797-R | Screen Protector Film (x2, one factory installed, one spare) |
| 2000-1654-R | Soft Carrying Case |
| | Warranty: 3 years standard (battery 1 year) |
| | Certificate of Calibration and Conformance |
| 633-75 | Rechargeable Battery, Li-Ion, 7500 mAh |
| 40-187-R | AC-DC Adapter |
| 806-141-R | Automotive Power Adapter, 12 VDC, 60 W |
| 3-2000-1498 | USB A-type to Mini USB B-type cable, 3.05 m (10 ft.) |

Optional Accessories

| Portable Antennas | Adapters |
|----------------------|---------------|
| | |
| Filters | Attenuators |
| | |
| Directional Antennas | Transit Cases |
| | |

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