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 multifunction 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
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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, 7 μs to 3600 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 ºC to 55 ºC, 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**

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>2000-1691-R</td>
<td>Stylus with Coiled Tether</td>
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<tr>
<td>2000-1797-R</td>
<td>Screen Protector Film (x2, one factory installed, one spare)</td>
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<tr>
<td>2000-1654-R</td>
<td>Soft Carrying Case</td>
</tr>
<tr>
<td>633-75</td>
<td>Warranty: 3 years standard (battery 1 year)</td>
</tr>
<tr>
<td>633-75</td>
<td>Certificate of Calibration and Conformance</td>
</tr>
<tr>
<td>40-187-R</td>
<td>Rechargeable Battery, Li-Ion, 7500 mAh</td>
</tr>
<tr>
<td>806-141-R</td>
<td>AC-DC Adapter</td>
</tr>
<tr>
<td>3-2000-1498</td>
<td>Automotive Power Adapter, 12 VDC, 60 W</td>
</tr>
</tbody>
</table>

**Optional Accessories**

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

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