

## 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.

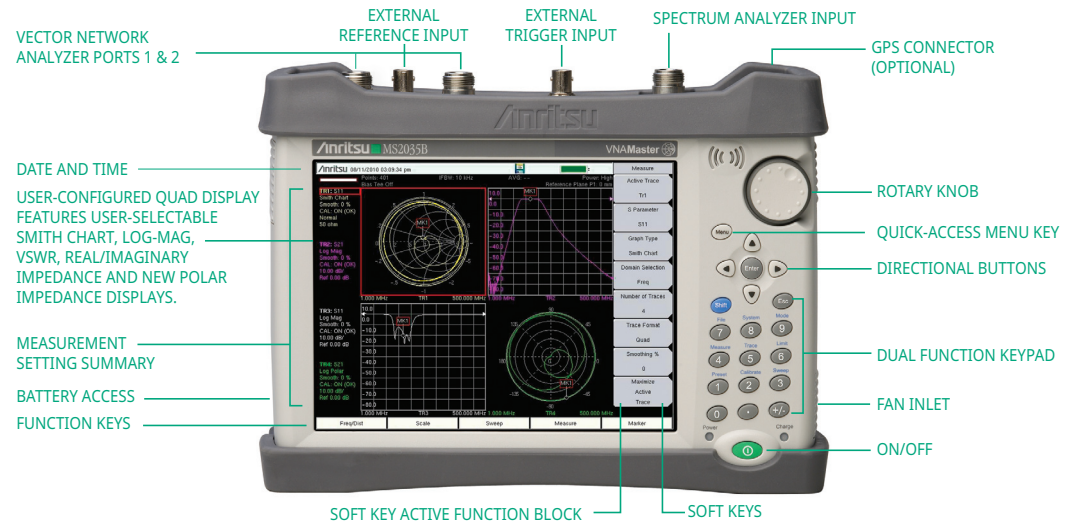
## Vector Analyzer Key Features

- 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

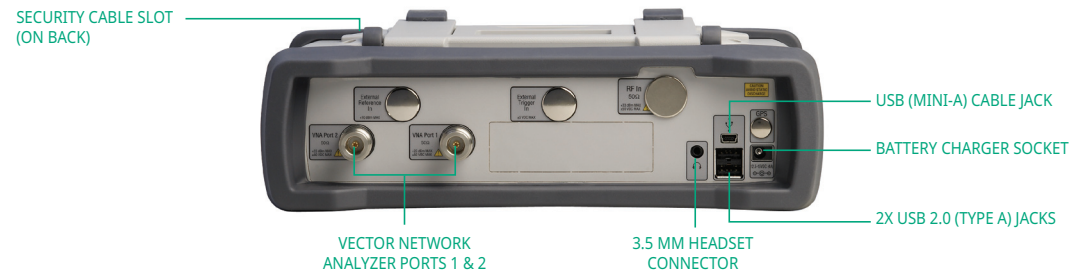
All of the above VNA features, PLUS:

- Measure: Occupied Bandwidth, Channel Power, ACPR, C/I
- Interference Analyzer: Spectrogram, Signal Strength, RSSI, Signal ID
- Frequency Accuracy: <math>< \pm 50 \text{ ppb}</math> 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

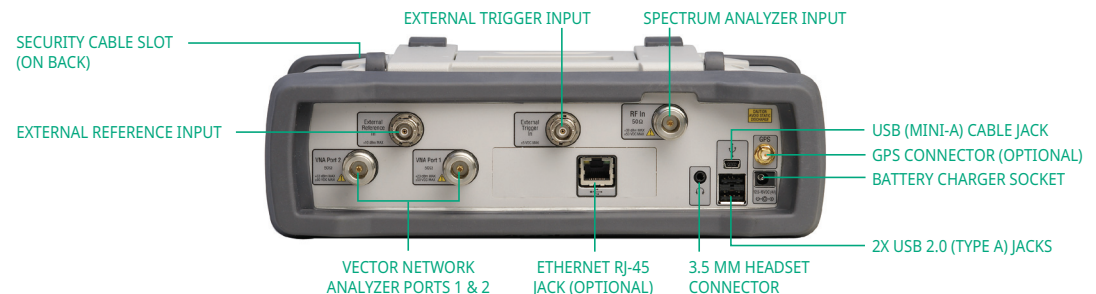


SIZE: 273 (W) X 199 (H) X 91 (D) MM (10.7 X 7.8 X 3.6 IN.), WEIGHT: 3.5 KG (7.6 LBS)

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



# VNA Master™ MS202xB / MS203xB

## Handheld Vector Network Analyzer + Spectrum Analyzer

### 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 $\mu$ s/data point
Directivity	> 42 dB at $\leq$ 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 $\mu$ s 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
Displa	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
10920-00060	Handheld Instruments Documentation Disc
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
2300-577	Anritsu Software Tool Box for Handheld RF Instruments Disc
	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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