VNA Master™ MS202xB / MS203xB

Handheld Vector Network Analyzer + Spectrum Analyzer

Anritsu

MS2024B
VNA: 500 kHz to 4 GHz

MS2025B
VNA: 500 kHz to 6 GHz

MS2034B
VNA: 500 kHz to 4 GHz
SPA: 100 kHz to 4 GHz

MS2035B
VNA: 500 kHz to 6 GHz
SPA: 100 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.
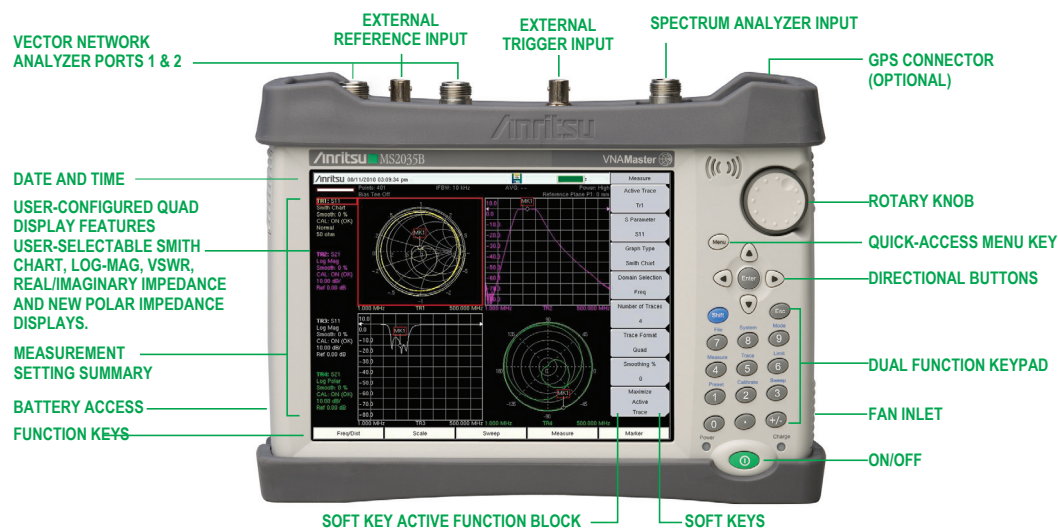
Vector Analyzer Key Features

> 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
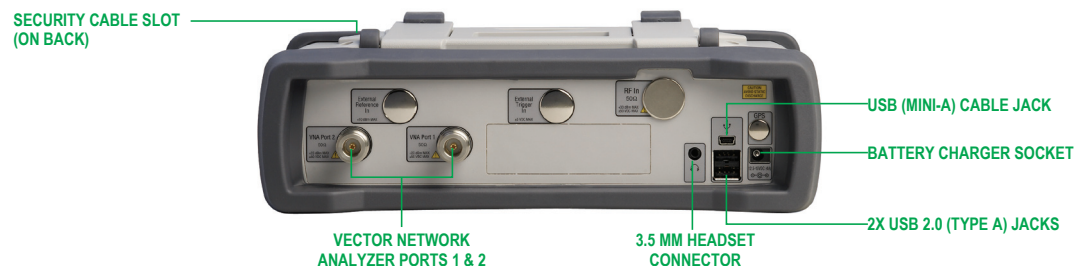
+ Spectrum Analyzer Key Features

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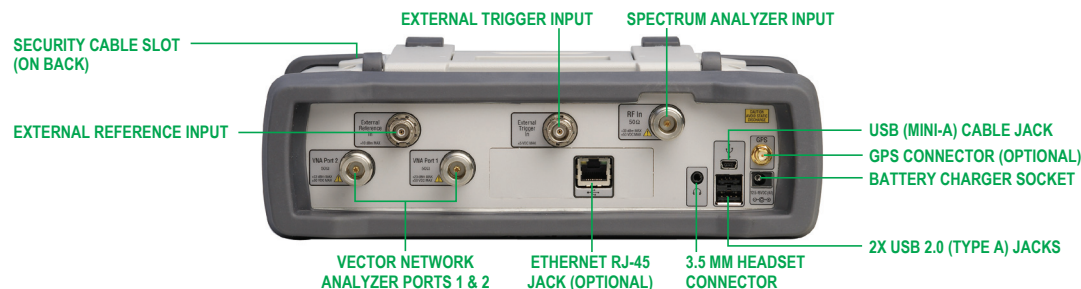> Markers: 6, each with a Delta Marker, or 1 Reference with 6 Deltas

VECTOR NETWORK ANALYZER PORTS 1 & 2 — EXTERNAL REFERENCE INPUT — EXTERNAL TRIGGER INPUT — SPECTRUM ANALYZER INPUT — GPS CONNECTOR (OPTIONAL) — DATE AND TIME — USER-CONFIGURED QUAD DISPLAY FEATURES — USER-SELECTABLE SMITH CHART, LOG-MAG, VSWR, REAL/IMAGINARY IMPEDANCE AND NEW POLAR IMPEDANCE DISPLAYS. — MEASUREMENT SETTING SUMMARY — BATTERY ACCESS — FUNCTION KEYS — ROTARY KNOB — QUICK-ACCESS MENU KEY — DIRECTIONAL BUTTONS — DUAL FUNCTION KEYPAD — FAN INLET — ON/OFF — SOFT KEY ACTIVE FUNCTION BLOCK — SOFT KEYS

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

SECURITY CABLE SLOT (ON BACK) — USB (MINI-A) CABLE JACK — BATTERY CHARGER SOCKET — 2X USB 2.0 (TYPE A) JACKS — VECTOR NETWORK ANALYZER PORTS 1 & 2 — 3.5 MM HEADSET CONNECTOR

MS2034/35B VNA MASTER + SPECTRUM ANALYZER

SECURITY CABLE SLOT (ON BACK) — EXTERNAL TRIGGER INPUT — SPECTRUM ANALYZER INPUT — EXTERNAL REFERENCE INPUT — USB (MINI-A) CABLE JACK — GPS CONNECTOR (OPTIONAL) — BATTERY CHARGER SOCKET — 2X USB 2.0 (TYPE A) JACKS — VECTOR NETWORK ANALYZER PORTS 1 & 2 — ETHERNET RJ-45 JACK (OPTIONAL) — 3.5 MM HEADSET CONNECTOR

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

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Handheld Vector Network Analyzer + Spectrum Analyzer

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Key Specifications

Vector Network Analyzer	
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: 100 kHz to 4 GHz / MS2035B: 100 kHz to 6 GHz
Sweep Time	Minimum 100 ms, 10 μs to 600 seconds in zero span
Directivity	> 42 dB at ≤ 6 GHz
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 ºC to 55 ºC, humidity 85% or less
Battery	Field replaceable Li-ion battery, 3.0 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 501	Distance-to-Fault
Option 509	AM/FM/PM Demodulation Analyzer (MS203xB Only)
Option 98	Z-540 Calibration
Option 99	Premium Calibration

Standard Accessories

Part Number	Description
10580-00220	VNA Master User's Guide
3-68736	Soft Carrying Case
2300-498	Master Software Tools CD ROM
633-44	Rechargeable Battery, Li-Ion, 6.6 Ah
40-168-R	AC-DC Adapter
806-141-R	Automotive Cigarette Lighter
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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www.anritsu.com or 1-800-267-4878