

# Quick Fact Sheet

## VNA Master™ MS202xC / MS203xC



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**MS2026C**  
 5 kHz to 6 GHz

**MS2027C**  
 5 kHz to 15 GHz

**MS2028C**  
 5 kHz to 20 GHz

← Vector Network Analyzer →  
 + Spectrum Analyzer →

**MS2036C**  
 5 kHz to 6 GHz  
 9 kHz to 9 GHz

**MS2037C**  
 5 kHz to 15 GHz  
 9 kHz to 15 GHz

**MS2038C**  
 5 kHz to 20 GHz  
 9 kHz to 20 GHz

## Handheld Vector Network Analyzer + Spectrum Analyzer

### The Grand Master of Handheld S-Parameters

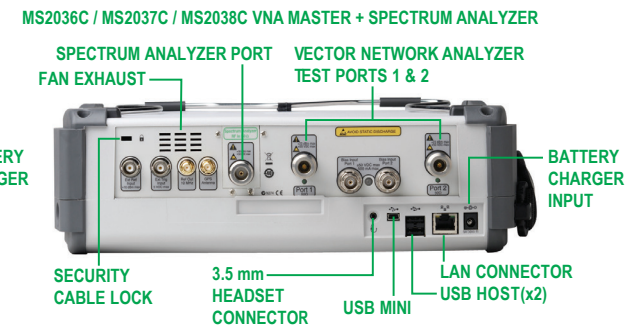
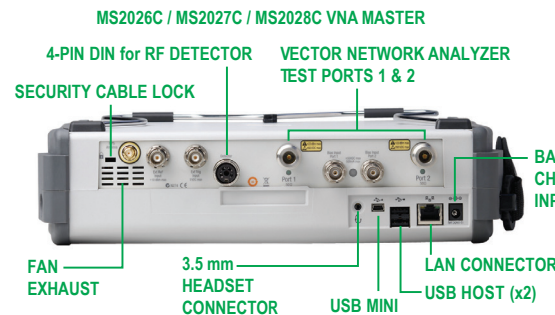
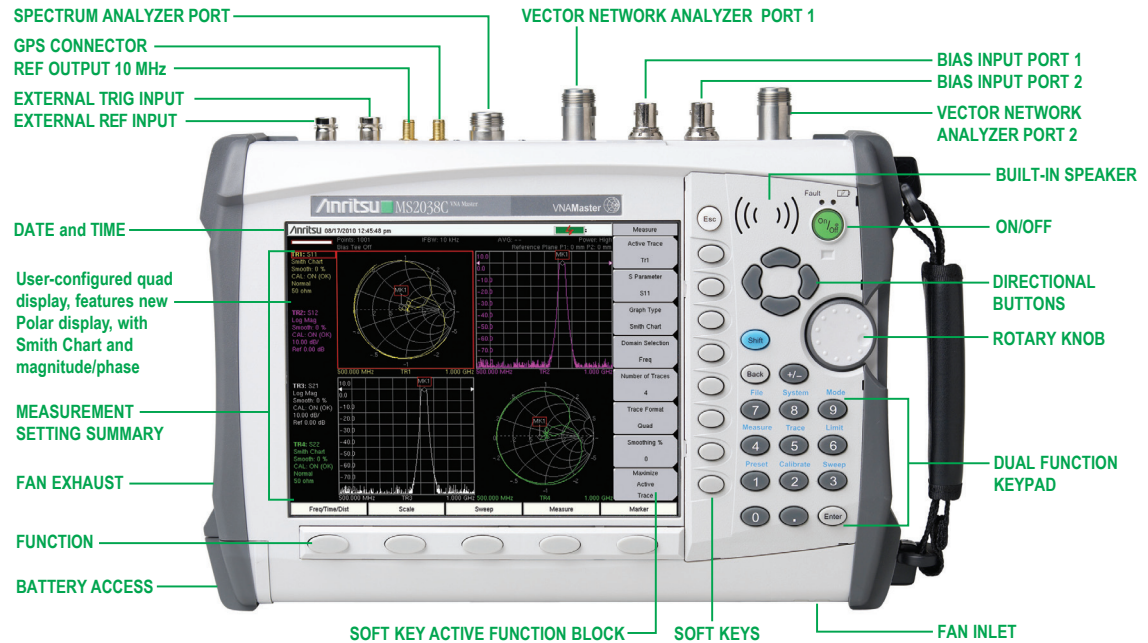
The title *Grand Master* suggests the ultimate level of skill, experience, accomplishment and recognition as best in class. The VNA Master Series is the industry's highest performance, handheld solution for 2-port, 2-path measurements, anytime, anywhere. It specifically addresses complex cable, waveguide and antenna measurement needs in the field with accurate, vector corrected 2-port magnitude, phase, and Time or Distance Domain measurements.

### Vector Analyzer Key Features

- 2-port, 2-path, fully-reversing VNA; measures and displays all S-parameters with a single connection
- 350 µsec per data point, ideal for filter tuning
- 12-term error correction algorithm
- Vector Voltmeter option, ideal for cable phase matching
- Time Domain option for precise Time or Distance Domain diagnostics, includes Gated Time Domain, LP Processing, and Phasor Impulse mode

### + Spectrum Analyzer Key Features

- Detectors: Peak, Negative, Sample, Quasi-peak, and true RMS
- Markers: 6, each with a Delta Marker, or 1 Reference with 6 Deltas
- Industry leading DANL performance
- Interference Analyzer Option: Spectrogram, Signal Strength, RSSI



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## VNA Master MS202xC / MS203xC



### Key Specifications

#### Vector Network Analyzer (now with standard Distance To Fault (DTF))

Frequency	5 kHz to 6 GHz (MS2026C / MS2036C), 5 kHz to 15 GHz (MS2027C / MS2037C), 5 kHz to 20 GHz (MS2028C / MS2038C)
Sweep Speed	350 $\mu$ sec/data point
Directivity	> 42 dB up to 6 GHz (all models), > 33 dB up to 20 GHz (MS20X7C, MS20X8C)
Dynamic Range	> 100 dB 2 MHz - 3 GHz (all models), > 90 dB 3 GHz - 6 GHz (all models), > 85 dB 6 GHz - 20 GHz (MS2027C / MS2037C, MS2028C / MS2038C)

#### + Spectrum Analyzer

Frequency	9 kHz to 9 GHz (MS2036C), 9 kHz to 15 GHz (MS2037C), 9 kHz to 20 GHz (MS2038C)
DANL	-164 dBm in 1 Hz RBW (typical)
Phase Noise	-106 dBc/Hz @ 10 kHz offset at 1 GHz (typical)
Dynamic Range	> 104 dB in 1 Hz RBW

#### General

Internal Trace	Store more than 4000 traces and setups in memory
External Trace	Limited by size of USB Flash drive
Connectivity	Ethernet, USB cable, USB Flash drive
Display	8.4" daylight viewable color LCD, resolution 800 x 600
Temperature	Operating Temperature -10 °C to 55 °C
Battery	Li-Ion, 3.0 hours, typical
Dimensions	211 mm x 315 mm x 78 mm (8.3 in x 12.4 in x 3.1 in) (MS202xC models) 211 mm x 315 mm x 97 mm (8.3 in x 12.4 in x 3.8 in) (MS203xC models)
Weight	4.5 kg (9.9 lbs) (MS202xC models), 4.8 kg (10.5 lbs) (MS203xC models)

### Options

#### Option Number Description

Option 0002	Time Domain with Low Pass TDR step response
Option 0007	Secure Data Operation
Option 0010	Built-in Variable Voltage Bias Tee
Option 0011	K(f) Test Port Connector (MS2027C/MS2028C and MS2037C/MS2038C only)
Option 0015	Vector Voltmeter
Option 0019	High Accuracy Power Meter (requires USB sensors, sold separately)
Option 0025	Interference Analysis (requires external antenna, MS203xC models only)
Option 0027	Channel Scanner (requires external antenna, MS203xC models only)
Option 0031	GPS Receiver (requires GPS antenna, sold separately)
Option 0077	Balanced / Differential S-Parameters, 1-port
Option 0431	Coverage Mapping (requires Option 31, GPS)
Option 0098	Standard Calibration (ISO 17025 and Z540.1)
Option 0099	Premium Calibration (ISO 17025 and Z540.1 plus test data)

### Standard Accessories

Part Number	Description
2000-1685-R	Soft Carrying Case (supplied with MS202xC only)
2000-1686-R	Soft Carrying Case (supplied with MS203xC only)
633-75	High Capacity Li-Ion Battery
40-187-R	AC-DC Adapter
806-141-R	Automotive Cigarette Lighter 12 VDC Adapter
3-2000-1498	USB A/5-pin mini-B Cable, 10 feet/305 cm
2000-1371-R	Ethernet cable, 2.13 m (7 ft)
	Three Year Warranty (One year for battery)
	Certificate of Calibration and Conformance

### Optional Accessories

#### Calibration Kits



#### High Accuracy Power Sensors



#### Precision Adapters



#### Phase-Stable Test Port Cables, Armored w/ Reinforced Grip



#### Phase-Stable Test Port Cables, Armored



#### Antennas



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