

ANRITSU

MS2026A

The Anritsu MS2026A VNA Master is a handheld Vector Network Analyzer designed for field-based RF engineering and maintenance. Operating from 2 MHz to 6 GHz, it delivers vector-corrected 1-port and 1-path 2-port measurements, enabling accurate assessments of cable and antenna systems. Its rugged handheld form factor, daylight-viewable display, and battery-powered operation make it well-suited for demanding field service and installation environments.

SPECIFICATIONS

General

Interfaces	USB 2.0 (Host and Device), 10/100 Base-T Ethernet, Compact Flash (CF) Card Slot
Display	High-resolution daylight-viewable TFT color display

Physical

Power Supply	External AC-to-DC adapter (12 to 15 VDC), or rechargeable Li-Ion Battery
Operating Temperature	-10 °C to +55 °C °C
Dimensions (W×H×D)	315 mm × 211 mm × 78 mm mm
Weight	< 2.9 kg kg

Frequency & Stimulus Specifications

Frequency Range	2 MHz to 6 GHz
Frequency Resolution	10 kHz
Frequency Accuracy	± 2.5 ppm (standard at 25 °C), ± 25 ppb (with GPS lock Option 31)
Number of Test Ports	2
Test Port Impedance	50 Ω
Output Power	0 dBm (typical, High), -35 dBm (typical, Low)

Receiver & Dynamic Range Specifications

System Dynamic Range	≥ 80 dB (2 MHz to 3 GHz), ≥ 70 dB (3 GHz to 6 GHz)
Maximum Input Level	+20 dBm (damage level), ± 50 VDC

Measurement Speed & Settings

Measurement Time per Point	2 ms / data point (typical)
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Measurement Capabilities & Calibration

Option 5	Power Monitor (requires external detector)
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System, Controller & Storage

Internal Data Storage	Up to 1000 traces and setups
Supported Local Languages	English, Spanish, Italian, French, German, Japanese, Korean, Chinese

Hardware Interfaces & Connections

Test Port Connector Type	Type N, female
Option 10	Built-in variable +12 V to +32 V Bias Tee
Option 31	GPS Receiver (includes GPS antenna)

Physical, Environmental & Power

Battery Operating Time	> 3 hours (with included battery)
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VNA Performance

Number of Data Points	2 to 4001
IF Bandwidth (IFBW)	10 Hz, 20 Hz, 50 Hz, 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, 10 kHz, 20 kHz, 50 kHz, 100 kHz
Measurement Formats	Log Magnitude, Phase, SWR, Group Delay, Linear Magnitude, Real, Imaginary, Smith Chart, Polar
Corrected Directivity	> 42 dB (2 MHz to 6 GHz)

Environmental

Storage Temperature	-40 °C to +75 °C
Measurement Altitude	up to 4,600 m (operating)
Operating Humidity	95% maximum, non-condensing

Options

Option 2	Time Domain
Option 15	Vector Voltmeter
Option 19	High-Accuracy Power Meter

Frequency Reference

Frequency Aging	±1.0 ppm/year
Frequency Temperature Stability	±1.0 ppm (-10 °C to 50 °C)
External Reference Input Frequency	10 MHz
External Reference Input Level	-10 dBm to +10 dBm

Option 10 Built-in Bias Tee

Bias Tee Voltage Range	+12 V to +32 V (0.1 V steps)
Bias Tee Maximum Current	450 mA
Bias Tee Maximum Power	6 W

GPS Receiver (Option 31)

GPS Connector	SMA, Female
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Compliance & Safety

Environmental Resistance	MIL-PRF-28800F Class 2
Safety Standards	EN 61010-1
EMC Standards	EN 61326-1:2006

Power & Battery

AC Adapter Input	100 V AC to 240 V AC, 50 Hz to 60 Hz
AC Adapter Output	15 V DC

Vector Voltmeter (Option 15)

Vector Voltmeter CW Frequency Range	2 MHz to 6 GHz
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Time Domain (Option 2)

Time Domain Sweep Modes	Low Pass Step, Low Pass Impulse, Bandpass Impulse
Time Domain Windowing	Rectangular, Nominal, Low Sidelobe, Min Sidelobe

High-Accuracy Power Meter (Option 19)

Compatible Power Sensors	Anritsu USB Power Sensors (e.g., MA24106A, MA24108A, MA24118A, MA24126A)
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Power Monitor (Option 5)

Compatible Detectors	Anritsu 560 Series Detectors
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Inputs & Outputs

External Trigger Input	TTL compatible
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TECHNOLOGY

Vector Network Analysis

APPLICATIONS

Antenna, Cable, and RF Component Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.