

ROHDE & SCHWARZ

SMW200A

The Rohde & Schwarz SMW200A is a premier vector signal generator designed for complex RF and microwave applications. It features high modularity, an integrated fading simulator, and exceptional signal quality, making it a standard for advanced cellular, wireless, and aerospace/defense testing.

SPECIFICATIONS

Frequency

Minimum Frequency	100 kHz Hz
Maximum Frequency	67 GHz (option dependent) Hz
Frequency Resolution	0.001 Hz

Output

Output Power Range	-120 dBm to +18 dBm (standard, up to 3 GHz)
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Modulation

Modulation	AM, FM, Phase, Pulse, I/Q Baseband, Digital Standards
Sweep Modes	Step, List

General

Display	Color touchscreen
Internal Mass Storage	Solid State Drive (SSD)

Physical

Power Supply	100 V to 240 V AC, 50 Hz to 400 Hz
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Frequency Characteristics

Frequency Options (Maximum)	3 GHz, 6 GHz, 7.5 GHz, 12.75 GHz, 20 GHz, 31.8 GHz, 40 GHz, 44 GHz, 56 GHz, 67 GHz
Number of RF Paths	Up to 2 independent RF paths (frequency option dependent)

Level / Amplitude Characteristics

Output Impedance	50 Ω
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Baseband Generator / I/Q Modulation

Internal RF Modulation Bandwidth	Up to 2 GHz (option dependent)
ARB Memory Depth	Up to 2 Gsample (option dependent)

Digital Standards & Channel Simulation

Supported Cellular Standards	5G NR, LTE (FDD/TDD), 3GPP FDD/HSPA/HSPA+, GSM/EDGE, CDMA2000, 1xEV-DO
Supported Wireless LAN Standards	IEEE 802.11a/b/g/n/ac/ax/ad/ay/be (option dependent)
Supported GNSS Standards	GPS, GLONASS, Galileo, BeiDou, NavIC, QZSS (option dependent)

Analog Modulation

Pulse Modulation On/Off Ratio	> 80 dB
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Sweep Capabilities

Sweep Types	Frequency, Level
Sweep Shapes	Sawtooth, Triangle

Physical, Environmental & Power

Operating Temperature Range	+0 °C to +50 °C
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Output Power

Level Resolution	0.01 dB
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Compliance

Electromagnetic Compatibility (EMC)	EN 61326-1, EN 55011 Class A
Electrical Safety	EN 61010-1

Performance

Internal AWGN Generator	Optional (SMW-K62)
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TECHNOLOGY

Vector Signal Generation

APPLICATIONS

Cellular Standard Testing, MIMO/Fading Simulation, Radar and Aerospace Signal Generation, General Purpose RF/Microwave 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.