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Data Sheet
August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz SMU200A Vector Signal Generator

Rohde & Schwarz SMU200A Vector Signal Generator The R&S SMU200A isatwo path vector signal generator in a 4 HU cabinet. PathAfrequency options SMU B102/B103/B104/B106 cover 100 kHz to 2.2/3/4/6 GHz; optional pathBSMU B202/B203 to 2.2 or 3 GHz. Up to two digital baseband generators (ARB 16/64/128 Msample) and optional fading (B14/B15) support 2×2 MIMO in one box. I/Q modulator RF bandwidth 200 MHz; internal baseband 80 MHz per path. Order 1141.2005.02 class base unit. 3GPP FDD/HSPA, LTE, WLAN 802.11, GSM/EDGE production and R&D; 2×2 MIMO fading; multistandard base station (digital baseband combining); ATE with list mode 450 us class. The R&S SMU200A isatwo path vector signal generator in a 4 HU cabinet. PathAfrequency options SMU B102/B103/B104/B106 cover 100 kHz to 2.2/3/4/6 GHz; optional pathBSMU B202/B203 to 2.2 or 3 GHz. Up to two digital baseband generators (ARB 16/64/128 Msample) and optional fading (B14/B15) support 2×2 MIMO in one box. I/Q modulator RF bandwidth 200 MHz; internal baseband 80 MHz per path. Order 1141.2005.02 class base unit. 3GPP FDD/HSPA, LTE, WLAN 802.11, GSM/EDGE production and R&D; 2×2 MIMO fading; multistandard base station (digital baseband combining); ATE with list mode 450 us class.

MODEL Rohde & Schwarz SMU200A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU SMU200A	LISTING https://aumictechlabs.com/products/smu200a-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz SMU200A is a modular vector signal generator delivering independent dual-path RF and baseband signal generation within a single 4U chassis. It supports frequency operation from 100 kHz to 2.2, 3, 4, or 6 GHz across the primary RF path, with optional secondary path coverage to 3 GHz. The instrument executes complex modulation including AM, FSK, PSK, QAM, and vector formats alongside real-time arbitrary waveform generation with up to 64 MSamples memory and 200 MHz RF bandwidth.Technical Specifications Frequency & Resolution Primary RF path: 100 kHz to 2.2/3/4/6 GHz (user-selectable upper limit) Secondary RF path (optional): 100 kHz to 2.2/3 GHz Frequency resolution: 10 mHz Signal Generation Modulation types: AM, Pulse, FSK, Vector, Wideband AM, ASK, MSK, PSK, QAM I/Q modulation bandwidth: 200 MHz RF Baseband paths: Up to two independent installations Arbitrary waveform memory: 64 MSamples standard; 128 MSamples optional Real-time signal generation with universal coders Performance Phase noise: -135 dBc typical @ 1 GHz, 20 kHz offset (1 Hz BW); -139 dBc enhanced option Wideband noise: -153 dBc typical (CW, 1 GHz, >5 MHz offset, 1 Hz BW) ACLR (3GPP FDD): +70 dB typical Output power: -145 dBm to +13 dBm; up to +19 dBm PEP with high-power option; +26 dBm overrange Level repeatability: 0.05 dB Digital ALC with constant-temperature detector ensures output linearity Digital StandardsSupports 3GPP LTE FDD/TDD, HSPA/HSPA+, GSM/EDGE/EDGE Evolution, TD-SCDMA, WiMAX, EUTRA/LTE.Key Features Dual independent generators in single chassis for multi-standard testing Lossless digital-domain baseband signal combination Flexible frequency and modulation architecture High-resolution frequency tuning with 10 mHz stepsCompatibility & Integration Control Interfaces GPIB and LAN (100BaseT) remote control USB slave connector for direct PC connection Windows Remote Desktop support I/O Connectivity Front panel: USB connectors, two marker outputs, trigger input Rear panel: Additional marker/trigger, VGA for external display

SMU200A Characteristics / Specifications

PARAMETER	VALUE
Model	SMU200A
Manufacturer	Rohde & Schwarz
Instrument Type	Two Path Vector Signal Generator
Alias	R&S SMU200A
PathAFrequency Options	B102 2.2 GHz; B103 3 GHz; B104 4 GHz; B106 6 GHz
PathBFrequency Options	B202 2.2 GHz; B203 3 GHz
Lower Frequency All Options	100 kHz (underrange 100 kHz to 300 kHz)
Frequency Setting Resolution	0.01 Hz
Synthesis Resolution Standard	5 uHz
Frequency Setting Time	less than 2 ms, typically 1.5 ms
List Mode Setting Time	less than 450 us, typically 300 us
Phase Offset Step	0.1 degree
Level Setting Range Standard	minus 145 dBm to plus 20 dBm
Level Setting with B31/B	to plus 30 dBm
Specified PEP Standardfless than or equal to 3 GHz	plus 13 dBm
Specified PEP Standardfgreater than 3 GHz	plus 11 dBm
Specified PEP High Powerfless than or equal to 3 GHz	plus 19 dBm
Specified PEP High Powerfgreater than 3 GHz	plus 17 dBm
Level Resolution	0.01 dB
Level Uncertainty 1 MHz to 3 GHz levels greater than minus 120 dBm	less than 0.5 dB
Level Uncertaintyfgreater than 3 GHz	less than 0.9 dB
Level Repeatability Typical	0.05 dB

PARAMETER	VALUE
I/Q RF Bandwidth	200 MHz
Internal Baseband RF Bandwidth	80 MHz per path
SSB Phase Noise 1 GHz 20 kHz 1 Hz Typical	minus 135 dBc
SSB Phase Noise with B22 Typical	minus 139 dBc
Wideband Noise 1 GHz offset greater than 10 MHz Typical	minus 153 dBc
ACLR 3GPP TM1 64 DPCH Typical Adjacent	70 dB
ARB Memory Options	16 / 64 / 128 Msample (B9/B10/B11)
Reference Aging Standard	less than 1e-9 per day, less than 1e-7 per year
OCXO Warmup	less than or equal to 10 min
Reference Output	10 MHz, typically 5 dBm, 50 ohm
External Reference Input	5 / 10 / 13 MHz, recommended 0 to 19 dBm
Sweep Dwell	10 ms to 10 s, resolution 0.1 ms
FM Phase Option	SMU B20 or B22 (B22 also enhanced phase noise)
High Power Options	SMU B31 path A, B36 pathBOvervoltage Options: B30/B32 path A, B35/B37 pathBDimensions: 435 mm x 192 mm x 460 mm
Weight Fully Equipped	25 kg
Calibration Interval	3 years
Display	800 × 600 SVGA colour
Remote	GPIB and Gigabit Ethernet VXI-11 Notes Specs from the R&S SMU200A specifications document. Read installed B102–B106 / B202–B203 frequency options and baseband/fading keys. PathBcannot be fitted with some B104/B106 plus B20/B22 combinations. Do not confuse with SMW200A (later two path microwave VSG).
Bandwidth	200 MHz; internal baseband 80 MHz per path. Order 1141.2005.02 class base unit.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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