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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz AMU200A 40MHz Signal Generator

I/Q Input B17: analog single-ended and digital LVDS 18 bit Remote Interfaces: IEEE 488.2, LAN 100BaseT, 4x USB host, 1x USB slave, VGA Form Factor: benchtop dual-path baseband instrument Specs from R&S AMU200A brochure and specifications. Confirm installed B9/B10/B11 memory, B14/B15 fading, B16/B17/B18 I/Q, and K-options. Dual-path fading requires B15 for simultaneous 20+20 taps. Remote Interfaces: IEEE 488.2, LAN 100BaseT, 4x USB host, 1x USB slave, VGA Form Factor: benchtop dual-path baseband instrument Specs from R&S AMU200A brochure and specifications. Confirm installed B9/B10/B11 memory, B14/B15 fading, B16/B17/B18 I/Q, and K-options. Dual-path fading requires B15 for simultaneous 20+20 taps.



MODEL

**Rohde & Schwarz
AMU200A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AMU200A

LISTING

<https://aumictechlabs.com/products/amu200a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz AMU200A 40 MHz signal generator is engineered to meet the demanding requirements of modern signal generation. With a frequency range up to 40 MHz, It has exceptional signal purity and stability. Its advanced modulation features include AM, FM, PM, and pulse modulation, enabling the creation of complex test signals. The AMU200A is equipped with

intuitive user interface and comprehensive remote control options, making it easy to integrate into automated test systems. Its solid design ensures reliable performance and long-term stability, making it an indispensable tool for any RF and microwave laboratory.

AMU200A Characteristics / Specifications

PARAMETER	VALUE
Realtime coders	ASK, FSK, PSK, QAM through 1024QAM class
Predefined fading	GSM, 3GPP FDD, CDMA2000, WiMAX, LTE, DAB (options K71/K72) Analog I/Q 0.02 V to 2 V EMF 50 ohm; differential 0.04 V to 4 V with B16 IEEE 488.2, 100BaseT LAN, USB host/slave, VGA Three-year calibration cycle Technical Specifications
Model	AMU200A
Manufacturer	Rohde & Schwarz
Instrument Type	Baseband signal generator and fading simulator
Alias	AMU 200A; R&S AMU200A
Order Number	1402.4090.02
Baseband Bandwidth	40 MHz
Sampling Rate	100 MHz
ARB Memory B	128 Msample
Frequency Response Analog I/Q	typically 0.03 dB across 40 MHz
ACLR 3GPP TM1 64 DPCH	typically +78 dB
Wideband Noise	typically minus 155 dBc
Fading Bandwidth	80 MHz, 50 MHz, or 30 MHz RF
Fading Paths Standard Delay 80 MHz	up to 20 per channel; 40 with B15
Fading Resolution 80 MHz	10 ns
Fading Resolution Fine Delay 30 MHz	0.01 ns (12 or 24 paths)
Fading Resolution Fine Delay 50 MHz	0.01 ns class (8 or 16 paths)
Standard Fading Profiles	constant phase, pure Doppler, Rayleigh, Rician, lognormal
K72 Extra Profiles	Gaussian, Gaussian DAB, WiMAX Doppler, WiMAX Rice
MIMO K	1×2, 2×1, 2×2 with settable correlations
Analog I/Q Output Single Ended	0.02 V to 2 V (EMF, 50 ohm)
Analog I/Q Output Differential B	0.04 V to 4 V (EMF, 50 ohm)
Digital I/Q B	LVDS, 18 bit

PARAMETER	VALUE
I/Q Input B	analog single-ended and digital LVDS 18 bit
ASK Range	0 percent to 100 percent
QAM Types	16, 32, 64, 256, 1024 QAM
Fading Simulator Option	AMU-B14
Fading Extension Option	AMU-B15
Remote Interfaces	IEEE 488.2, LAN 100BaseT, 4x USB host, 1x USB slave, VGA
Form Factor	benchtop dual-path baseband instrument
Calibration Interval	3 years Notes Specs from R&S AMU200A brochure and specifications. Confirm installed B9/B10/B11 memory, B14/B15 fading, B16/B17/B18 I/Q, and K-options. Dual-path fading requires B15 for simultaneous 20+20 taps.
Bandwidth	is 80 / 50 / 30 MHz with up to 20 taps per channel (40 taps with B15 path extension). Analog single-ended I/Q is standard; differential (B16) and digital LVDS 18 bit (B18) are optional. AWGN, BERT, and digital-standard options share the SMU/SMATE fam

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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Instrument Type	Baseband signal generator and fading simulator
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Alias	AMU 200A; R&S AMU200A
Order Number	1402.4090.02
Baseband Bandwidth	40 MHz
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Sampling Rate	100 MHz
ARB Memory B11	16 Msample
ARB Memory B10	64 Msample
Specifications	
PARAMETER	VALUE
ARB Memory B9	128 Msample
Frequency Response Analog I/Q	typically 0.03 dB across 40 MHz
ACLR 3GPP TM1 64 DPCH	typically +78 dB
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PARAMETER	VALUE
Wideband Noise	typically minus 155 dBc
Fading Bandwidth	80 MHz, 50 MHz, or 30 MHz RF
Fading Paths Standard Delay 80 MHz	up to 20 per channel; 40 with B15

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Fading Resolution 80 MHz	10 ns
Fading Resolution Fine Delay 30 MHz	0.01 ns (12 or 24 paths)
Fading Resolution Fine Delay 50 MHz	0.01 ns class (8 or 16 paths)

Specifications

PARAMETER	VALUE
Standard Fading Profiles	constant phase, pure Doppler, Rayleigh, Rician, lognormal
K72 Extra Profiles	Gaussian, Gaussian DAB, WiMAX Doppler, WiMAX Rice
MIMO K74	1x2, 2x1, 2x2 with settable correlations

Specifications

PARAMETER	VALUE
Analog I/Q Output Single Ended	0.02 V to 2 V (EMF, 50 ohm)
Analog I/Q Output Differential B16	0.04 V to 4 V (EMF, 50 ohm)
Digital I/Q B18	LVDS, 18 bit

Specifications

PARAMETER	VALUE
I/Q Input B17	analog single-ended and digital LVDS 18 bit
ASK Range	0 percent to 100 percent
QAM Types	16, 32, 64, 256, 1024 QAM

Specifications

PARAMETER	VALUE
Fading Simulator Option	AMU-B14
Fading Extension Option	AMU-B15
Remote Interfaces	IEEE 488.2, LAN 100BaseT, 4x USB host, 1x USB slave, VGA

Form Factor: benchtop dual-path baseband instrument

Calibration Interval: 3 years

Notes

Specs from R&S AMU200A brochure and specifications. Confirm installed B9/B10/B11 memory, B14/B15 fading, B16/B17/B18 I/Q, and K-options. Dual-path fading requires B15 for simultaneous 20+20 taps.

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

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.