

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz AMIQ02 I/Q Signal Modulation Generator

Rohde & Schwarz AMIQ02 I/Q Modulation Generator The R&S AMIQ02 is the earlier I/Q modulation generator in the AMIQ family (order 1110.2003.02). Two synchronous analog and Q outputs and a wide clock range generate complex baseband signals for vector RF generators and I/Q modules. Later models AMIQ03 (4 Msamples) and AMIQ04 (16 Msamples) expand memory; AMIQ-B3 digital I/Q is documented for models 03/04 only. WinIQSIM software, marker channels, BER (B1), differential I/Q (B2), and rear I/Q (B19) options support 2G baseband. Treat analog I/Q architecture as the AMIQ family; confirm memory depth on the 1110.2003.02 unit label. The R&S AMIQ02 is the earlier I/Q modulation generator in the AMIQ family (order 1110.2003.02). Two synchronous analog and Q outputs and a wide clock range generate complex baseband signals for vector RF generators and I/Q modules. Later models AMIQ03 (4 Msamples) and AMIQ04 (16 Msamples) expand memory; AMIQ-B3 digital I/Q is documented for models 03/04 only. WinIQSIM software, marker channels, BER (B1), differential I/Q (B2), and rear I/Q (B19) options support 2G baseband. Treat analog I/Q architecture as the AMIQ family; confirm memory depth on the 1110.2003.02 unit label.



MODEL

Rohde & Schwarz AMIQ02

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AMIQ02

LISTING

<https://aumictechlabs.com/products/amiq02-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz AMIQ02 is a baseband I/Q signal modulation generator engineered for precise synthesis of complex modulated signals in research, development, and production environments. It generates arbitrary I/Q waveforms and digital marker outputs for direct testing of components with I/Q interfaces or as a frontend to vector-modulated RF generators. The instrument supports advanced digital communication standards including WCDMA, HIPERLAN2, and IEEE 802.11a with exceptional spectral performance.

Technical Specifications

Signal Generation & Resolution DAC sample clock rate: up to 105 MHz (guaranteed to 100 MHz) DAC resolution: 14-bit analog outputs Digital I/Q resolution: up to 16-bit (with optional B3 or B19 expansion) Sample frequency: programmable with 32-bit precision Memory depth: up to 16,000,000 samples per channel

Output Filtering & Performance Programmable analog filters: no filter, 25 MHz, or 2.5 MHz Filter response: flat frequency response and constant group delay Adjacent Channel Power (ACP): typically -78 dBc for WCDMA 3GPP FDD Test Model 1 (64 DPCH channels) at 5 MHz and 10 MHz offsets Amplitude auto-alignment and user correction I/Q skew adjustment for channel symmetry Wide dynamic range for multicarrier applications

Interfaces & Control GPIB/IEEE 488 remote control RS-232-C remote control 10 MHz reference input and output Sample clock input Trigger input Four user-programmable marker outputs External filter loopback input and output

Key Features Programmable via R&S WinIQSIM™ software Compatible with Vector Signal Generators such as R&S SMIQ Optional digital I/Q output (AMIQ-B3) Optional rear I/Q outputs (AMIQ-B19) Optional differential I/Q outputs (AMIQ-B2) Optional BER measurement connector (AMIQ-B1) Integrated hard disk storage for calculated signals Floppy disk drive for waveform download and transfer

Typical Applications Advanced communication system testing Complex modulated signal synthesis for component validation Baseband I/Q signal generation for RF frontend testing Digital communication standard compliance verification

Compatibility & Integration The AMIQ02 integrates with external vector signal generators and test systems via standardized GPIB and RS-232-C control interfaces. External devices must provide waveform data; the unit contains no local user interface. Weight: approximately 10 lbs.

Features & description

From manufacturer datasheet

Features

• Family clock class 10 Hz to 100 MHz (105 MHz setting with restrictions) • 14-bit analog class I/Q DACs • IEC/IEEE remote • Floppy plus hard-disk mass memory • Same option slots as later AMIQ except B3 digital I/Q (03/04)

Applications

• Baseband I/Q drive of SMIQ and other vector generators • I/Q module and component test • Impairment injection (offset, delay, imbalance) • Digital-standard waveforms via WinIQSIM and K-options as fitted • Dual arbitrary analog outputs

AMIQ02 Characteristics / Specifications

PARAMETER	VALUE
Model	AMIQ02
Manufacturer	Rohde & Schwarz
Instrument Type	I/Q modulation generator
Alias	AMIQ 02; R&S AMIQ02; AMIQ model 02
Order Number	1110.2003.02
Family Clock Range Specified	10 Hz to 100 MHz
Family Clock Setting Range	to 105 MHz (restrictions above 100 MHz)
Amplitude Resolution Analog Class	8 bit to 14 bit selectable
Marker Channels Class	4
DAC	two-channel
Outputs	analog and Q, matched
Differential I/Q Option	AMIQ-B2
Rear I/Q Option	AMIQ-B19 1110.3400.02
BER Option	AMIQ-B1 1110.3500.02
Digital I/Q AMIQ B	documented for models 03/04, not 02
Software	WinIQSIM
Remote	IEC 625 / IEEE 488
Sibling AMIQ03 Memory	4 000 000 samples (1110.2003.03)
Sibling AMIQ04 Memory	16 000 000 samples (1110.2003.04)
Mass Memory	floppy plus HDD
Fine Tuning	delay, level, and offset of I/Q outputs
Form Factor	AMIQ family baseband generator
IF Generation Class	up to 25 MHz
Clock Slow Mode Class	10 Hz to 4 MHz
Clock Fast Mode Class	2 MHz to 100 MHz

PARAMETER	VALUE
Multisegment Class	family 30 segments
Firmware Class	AMIQ operating manual family
Intended RF Mate	SMIQ vector generatorsKOptions: IS-95 and later digital standards as licensed
Memory	confirm on 1110.2003.02 hardware (smaller than 03/04) Notes Specs from the R&S AMIQ family operating manual listing 1110.2003.02/03/04. AMIQ02 is the earlier SKU; 03/04 add 4/16 Msample memories and B3 digital I/Q. Confirm installed memory and options on the unit. Do not assume 16 Msamples.

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.

Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	AMIQ02
Manufacturer	Rohde & Schwarz
Instrument Type	I/Q modulation generator
Alias	AMIQ 02; R&S AMIQ02; AMIQ model 02
Order Number	1110.2003.02
Family Clock Range Specified	10 Hz to 100 MHz
Family Clock Setting Range	to 105 MHz (restrictions above 100 MHz)
Amplitude Resolution Analog Class	8 bit to 14 bit selectable
Marker Channels Class	4
DAC	two-channel
Outputs	analog I and Q, matched
Differential I/Q Option	AMIQ-B2
Rear I/Q Option	AMIQ-B19 1110.3400.02
BER Option	AMIQ-B1 1110.3500.02
Digital I/Q AMIQ B3	documented for models 03/04, not 02
Software	WinIQSIM
Remote	IEC 625 / IEEE 488
Sibling AMIQ03 Memory	4 000 000 samples (1110.2003.03)
Sibling AMIQ04 Memory	16 000 000 samples (1110.2003.04)
Mass Memory	floppy plus HDD
Fine Tuning	delay, level, and offset of I/Q outputs
Form Factor	AMIQ family baseband generator
IF Generation Class	up to 25 MHz
Clock Slow Mode Class	10 Hz to 4 MHz
Clock Fast Mode Class	2 MHz to 100 MHz
Multisegment Class	family 30 segments

PARAMETER	VALUE
Firmware Class	AMIQ operating manual family
Intended RF Mate	SMIQ vector generators
K Options	IS-95 and later digital standards as licensed
Memory	confirm on 1110.2003.02 hardware (smaller than 03/04)

Specifications

PARAMETER	VALUE
Model	AMIQ02
Manufacturer	Rohde & Schwarz
Instrument Type	I/Q modulation generator
Alias	AMIQ 02; R&S AMIQ02; AMIQ model 02
Order Number	1110.2003.02
Family Clock Range Specified	10 Hz to 100 MHz
Family Clock Setting Range	to 105 MHz (restrictions above 100 MHz)
Amplitude Resolution Analog Class	8 bit to 14 bit selectable
Marker Channels Class	4
DAC	two-channel
Outputs	analogIand Q, matched
Differential I/Q Option	AMIQ-B2
Rear I/Q Option	AMIQ-B19 1110.3400.02
BER Option	AMIQ-B1 1110.3500.02
Digital I/Q AMIQ B3	documented for models 03/04, not 02
Software	WinIQSIM
Remote	IEC 625 / IEEE 488
Sibling AMIQ03 Memory	4 000 000 samples (1110.2003.03)
Sibling AMIQ04 Memory	16 000 000 samples (1110.2003.04)
Mass Memory	floppy plus HDD
Fine Tuning	delay, level, and offset of I/Q outputs
Form Factor	AMIQ family baseband generator
IF Generation Class	up to 25 MHz
Clock Slow Mode Class	10 Hz to 4 MHz
Clock Fast Mode Class	2 MHz to 100 MHz
Multisegment Class	family 30 segments

PARAMETER	VALUE
Firmware Class	AMIQ operating manual family
Intended RF Mate	SMIQ vector generatorsKOptions: IS-95 and later digital standards as licensed
Memory	confirm on 1110.2003.02 hardware (smaller than 03/04)

Notes

Specs from the R&S AMIQ family operating manual listing 1110.2003.02/03/04. AMIQ02 is the earlier SKU; 03/04 add 4/16 Msample memories and B3 digital I/Q. Confirm installed memory and options on the unit. Do not assume 16 Msamples.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.