

ROHDE & SCHWARZ

AMIQ03/04

The Rohde & Schwarz AMIQ03 and AMIQ04 are high-performance dual-channel I/Q modulation generators designed for generating complex baseband and IF signals. Configured and controlled via the R&S WinIQSIM software, they support sample rates up to 100 MSample/s and offer expansive waveform memory (up to 16 MSamples for the AMIQ04) to enable long signal sequences. With 14-bit analog resolution, integrated hard and floppy drives, and configurable options for differential outputs, digital I/Q interfacing, and Bit Error Rate (BER) measurement, the AMIQ series is highly adaptable for multi-carrier simulation and testing digital modulators/demodulators.

SPECIFICATIONS

General

Interfaces	IEEE 488.2 (GPIB), RS-232
Display	None (LED indicators only, controlled via external software or SMIQ)

General Characteristics

Number of Channels	2
Maximum Sample Rate	100 MSample/s
Waveform Memory Size per Channel	4 MSamples (AMIQ03) / 16 MSamples (AMIQ04)
D/A Converter Resolution	14 bits (analog outputs)

Analog I/Q Outputs

Differential Output Support	Optional (Requires AMIQ-B2)
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Digital I/Q Interface

Digital I/Q Output	Optional (Requires AMIQ-B3)
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Clock System

External Clock Input	Supported (via CLK connector)
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Software and Waveform Support

Supported PC Software	R&S WinIQSIM
Waveform Capabilities	Multi-carrier simulation, import of user waveforms

Outputs

Output Impedance	50 Ω
Analog Output Filters	2.5 MHz, 8 MHz, 25 MHz lowpass, and Bypass
Marker Outputs	4 freely programmable marker outputs
Connector Type (Analog I/Q & Markers)	BNC female

TECHNOLOGY

I/Q Baseband Generation

APPLICATIONS

Baseband signal generation, I/Q modulator/demodulator testing, RF upconversion driving, multi-carrier simulation

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