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Data Sheet

August 3, 2026

ROHDE & SCHWARZ

Rohde and Schwarz SMIQ06ATE Vector Signal Generator, 300 kHz to 6.4 GHz

Rohde & Schwarz SMIQ06ATE Vector Signal Generator 300 kHz to 6.4 GHz The SMIQ06ATE provides a Rohde & Schwarz vector signal generator for ATE environments. Per R&S operating documentation, SMIQ06ATE functionality and rated specifications correspond to the SMIQ06B (300 kHz to 6.4 GHz). It differs primarily in packaging/operation for automated test: no conventional front-panel display; full remote control via IEEE-488/GPIB, with optional SMIQ-TV virtual front panel on an external Windows PC. Broadband I/Q modulation and analog modulation support digital radio protocols and general RF stimulus. The SMIQ06ATE provides a Rohde & Schwarz vector signal generator for ATE environments. Per R&S operating documentation, SMIQ06ATE functionality and rated specifications correspond to the SMIQ06B (300 kHz to 6.4 GHz). It differs primarily in packaging/operation for automated test: no conventional front-panel display; full remote control via IEEE-488/GPIB, with optional SMIQ-TV virtual front panel on an external Windows PC. Broadband I/Q modulation and analog modulation support digital radio protocols and general RF stimulus. ATE production test of wireless/RF devices; vector-modulated signal generation to 6.4 GHz; protocol/standard testing with SMIQ options (CDMA, W-CDMA, ARB, fading, noise, BERT, etc.).



MODEL

**Rohde & Schwarz
SMIQ06ATE**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SMIQ06ATE

LISTING

<https://aumictechlabs.com/products/smiq06ate-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz SMIQ06ATE is a vector signal generator purpose-built for automated test equipment (ATE) environments, delivering high-accuracy modulation signals across 300 kHz to 6.4 GHz. It employs DSP technology and a broadband I/Q modulator to generate digital modulation signals with excellent vector accuracy, alongside analog modulation capability. The instrument supports multiple digital radio protocols including IS-95 CDMA, W-CDMA, and 3GPP W-CDMA via optional modules. Full programmability via IEEE 488 remote control eliminates the need for manual front-panel operation, making it ideal for integrated ATE systems where rear-panel RF and LF connections streamline signal routing and test automation.

Technical Specifications
Frequency Range: 300 kHz to 6.4 GHz
Modulation: Digital modulation signals (DSP-based), analog modulation, and digital radio protocol support
Modulator: Broadband I/Q with excellent vector accuracy
Control Interface: IEEE 488 (fully programmable)
Configuration: ATE-optimized; no manual front-panel display
RF Output: Rear-panel connection
LF Output: Available via optional module (SMIQB19)

Key Features
DSP-based signal generation ensures high accuracy and stability across the entire frequency range
Broadband I/Q modulator delivers precise vector accuracy for demanding digital modulation applications
Optional modulation standards modules (SMIQB42, SMIQB43, SMIQB45) support IS-95 CDMA, W-CDMA, and 3GPP W-CDMA
Rear-panel connectivity optimizes ATE rack integration and simplifies signal distribution
Extensible architecture accommodates optional data generators, fading simulators, noise/distortion simulation, and arbitrary waveform generation

Typical Applications
Automated test systems for digital wireless devices and base-station equipment
Multi-protocol signal generation for CDMA and WCDMA transceiver validation
High-volume manufacturing test of RF/microwave modules requiring stable, repeatable stimulus signals

Compatibility & Integration
The SMIQ06ATE maintains functional and specification parity with the SMIQ06B, with design optimizations for ATE deployment. Optional modules expand capabilities to include fading simulation, bit error rate testing, dynamic fading, and low-ACP filtering.

Features & description

From manufacturer datasheet

Features

- Frequency range: 300 kHz to 6.4 GHz (SMIQ06B-equivalent) • Vector (I/Q) and analog modulation capability • ATE-oriented: no local display; GPIB remote control; SMIQ-TV for PC GUI • Option ecosystem shared with SMIQ06B (OCXO SM-B1, FM/φM SM-B5, data generator, fading, noise, ARB SMIQB60, digital standards, BERT, etc.) • Fully programmable via IEEE bus

SMIQ06ATE Characteristics / Specifications

PARAMETER	VALUE
Model	SMIQ06ATE
Manufacturer	Rohde & Schwarz
Instrument Type	Vector Signal Generator (ATE version of SMIQ06B)
Alias	SMIQ06ATE; SMIQ 06 ATE Frequency
Range	300 kHz to 6.4 GHz (same as SMIQ06B per R&S manual supplement)
Related family models	SMIQ02B (to 2.2 GHz), SMIQ03B (3.3 GHz), SMIQ04B (4.4 GHz), SMIQ06B (6.4 GHz) Modulation / Signal Generation Broadband I/Q modulator with high vector accuracy (family) Analog modulation supported Digital standards and ARB via installed SMIQBx options—inventory installed options on the unit
Primary	IEEE-488 / GPIB remote
Manual GUI	SMIQ-TV software on external PC with GPIB controller No conventional front-panel display (ATE differentiation vs SMIQ06B) Standard Operating Conditions Operate per SMIQ06B environmental and RF specifications in the R&S SMIQ data sheet / operating manual. Confirm installed hardware options before quoting digital-standard capability.
Frequency range	300 kHz to 6.4 GHz (SMIQ06B-equivalent)
ATE-oriented	no local display; GPIB remote control; SMIQ-TV for PC GUI

SMIQ06ATE Specifications

PARAMETER	VALUE
Key Features	- Frequency range: 300 kHz to 6.4 GHz (SMIQ06B-equivalent)
Technical Specifications	Model: SMIQ06ATE
Frequency	Range: 300 kHz to 6.4 GHz (same as SMIQ06B per R&S manual supplement)
Modulation / Signal Generation	Broadband I/Q modulator with high vector accuracy (family)
Control	Primary: IEEE-488 / GPIB remote

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 correspond to the SMIQ06B (300 kHz to 6.4 GHz). It differs primarily in packaging/operation for automated test: no conventional front-panel display; full remote control via IEEE-488/GPIB, with optional SMIQ-TV virtual front panel on an external Windows PC. Broadband I/Q modulation and analog modulation support digital radio protocols and general RF stimulus.

Applications

ATE production test of wireless/RF devices; vector-modulated signal generation to 6.4 GHz; protocol/standard testing with SMIQ options (CDMA, W-CDMA, ARB, fading, noise, BERT, etc.).

Key Features

- Frequency range: 300 kHz to 6.4 GHz (SMIQ06B-equivalent)
- Vector (I/Q) and analog modulation capability
- ATE-oriented: no local display; GPIB remote control; SMIQ-TV for PC GUI
- Option ecosystem shared with SMIQ06B (OCXO SM-B1, FM/φM SM-B5, data generator, fading, noise, ARB SMIQB60, digital standards, BERT, etc.)
- Fully programmable via IEEE bus

Technical Specifications

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PARAMETER	VALUE
Model	SMIQ06ATE
Manufacturer	Rohde & Schwarz
Instrument Type	Vector Signal Generator (ATE version of SMIQ06B)
Alias	SMIQ06ATE; SMIQ 06 ATE

Frequency

Range: 300 kHz to 6.4 GHz (same as SMIQ06B per R&S manual supplement)

Related family models: SMIQ02B (to 2.2 GHz), SMIQ03B (3.3 GHz), SMIQ04B (4.4 GHz), SMIQ06B (6.4 GHz)

Modulation / Signal Generation

Broadband I/Q modulator with high vector accuracy (family)

Analog modulation supported

Digital standards and ARB via installed SMIQBx options--inventory installed options on the unit

Control

Primary: IEEE-488 / GPIB remote

Manual GUI: SMIQ-TV software on external PC with GPIB controller

No conventional front-panel display (ATE differentiation vs SMIQ06B)

Standard Operating Conditions

Operate per SMIQ06B environmental and RF specifications in the R&S SMIQ data sheet / operating manual. Confirm installed hardware options before quoting digital-standard capability.

Operational Notes

Treat electrical RF performance as SMIQ06B unless an option-specific datasheet states otherwise. Do not confuse with SMIQ06L (different low-end frequency marketing).

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