



N5172B EXG X-Series RF Vector Signal Generator, up to 6 GHz

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Overview & Features

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Key Features & Specifications

Signal characteristics

- 9 kHz to 3 or 6 GHz
- +21 dBm specified power to 3 GHz with electronic attenuator
- < 900-μs simultaneous switching of frequency, power, and waveform type
- ≤ -73 dBc ACP W-CDMA 64 DPCH and <0.4% EVM 80 MHz 802.11ac

Modulation and sweep

- AM, FM, ØM, and narrow pulse
- 10 MHz multifunction generator and LF out
- Digital step and list sweep modes
- I/Q modulation: ASK, FSK, MSK, PSK, QAM, custom I/Q

Baseband generation and signal creation

- 120 MHz internal baseband generator (±0.2 dB flatness): arbitrary waveform and real-time I/Q
- 512 Msample playback memory and 30 GB internal or 8 GB external, removable memory
- Arbitrary and real-time signals: LTE, HSPA+, WLAN, GNSS, DVB, and more – [Signal Studio, embedded, or MATLAB software](#)
- Multi-channel baseband generation with N5102A digital I/O, MIMO, and RF fading with [PXB baseband generator and channel emulator](#)

Automation and communication interface

- 1000BaseT LAN, LXI, USB 2.0, and GPIB
- SCPI, IVI-COM, MATLAB drivers
- Backward compatible with ESG, MXG, PSG and 8648x signal generators
- Keysight USB power sensor compatible with embedded display and SCPI control

Description

The cost-effective EXG

To help you achieve faster throughput and greater uptime, the EXG is optimized for manufacturing test with the signals you'll need for basic parametric testing of components and functional verification of receivers. Get "just enough" test at the right price with the EXG.

Maximize yield with outstanding hardware performance

- Confidently test components with industry-leading ACPR, EVM, and output power
- Maximize throughput with fast switching speed
- Shrink your test stand with two rack-unit height
- Get the performance and capabilities you need today and easily upgrade later

Test a broad range of signals with the most sophisticated applications

- Support multiple technologies for cellular, wireless connectivity, video, and tracking/navigation applications with Signal Studio software
- Simulate real-world signals with real-time capabilities for LTE, GNSS, DVB, and more
- Purchase only the waveforms you need with 5-pack and 50-pack licensing

Maximize resources with low cost of ownership

- Increase uptime with high mean time between failures (MTBF) based on first-generation MXG track record
- Minimize downtime and expenses with self-maintenance strategy and low-cost repairs



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What's New

- [3-year instrument warranty is now standard](#)
- [Latest enhancements for N7609B Signal Studio for GNSS](#)
- [Simplify the creation of standard-based waveforms with Signal Studio for 802.15.4g Wi-SUN](#)

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