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# N5171B EXG X-Series RF Analog Signal Generator, up to 6 GHz

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## Overview & Features

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## Key Features & Specifications

### Signal characteristics

- 9 kHz to 1, 3 or 6 GHz
- +21 dBm specified power to 3 GHz with electronic attenuator
- < 900-μs simultaneous switching of frequency and power
- < -121 dBc/Hz (typ) phase noise at 1 GHz and 20 kHz offset

### Modulation and sweep

- AM, FM, ØM, and narrow pulse
- Pulse train generator
- 10 MHz multifunction generator and LF out
- Digital step and list sweep modes

### Automation and communication interface

- 1000BaseT LAN, LXI, USB 2.0, and GPIB
- SCPI, IVI-COM, MATLAB drivers
- Backward compatible with all 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 calibration of receivers. Get "just enough" test at the right price with the EXG.

### Maximize yield with outstanding hardware performance

- Confidently test components with excellent level accuracy and repeatability
- Compensate for test system losses with industry-leading 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

### 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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