

Keysight N5181A MXG RF Analog Signal Generator

Frequency ranges: 100 kHz to 1, 3 or 6 GHz

The MXG RF analog signal generator provides better value by increasing throughput, maximizing uptime and saving rack space. It features fast switching speeds and high output power and is optimized for accurate and repeatable reference signals. The reliable design, with simplified self-maintenance options, ensures a low cost of ownership.



Ideal for

- Component manufacturing test
- Installation and maintenance
- Depot and ATE test

Applications include

- LO substitution
- Blocker/interferer signals
- Transmitting source for antenna test

Performance upgrades for

- Fast frequency and amplitude switching
- High power (+23 dBm to 3 GHz)
- Low power (< -110 dBm)
- AM, FM, phase modulation
- Pulse modulation
- Narrow pulse modulation

Model	RF connectors
Frequency options	
N5181A-501	100 kHz to 1 GHz
N5181A-503	100 kHz to 3 GHz
N5181A-506	100 kHz to 6 GHz
Optional features	
UNZ	Fast switching (frequency and amplifier)
1EA	High power
1EQ	Low power (<–110 dBm)
UNU	Pulse modulation
UNW	Narrow pulse modulation
UNT	AM, FM, phase modulation
006	Instrument security
1ER	Flexible reference input (1 to 50 MHz)
1EM	Move RF output to rear panel
UK6	Commercial Calibration Certificate with test data
099	Expanded license key upgradeability
Connectivity accessories	
82357B	USB/GPIB interface
10833A/B/C/D/F/G	GPIB cable
82350B	PCI high-performance GPIB card
82351A	PCIe-GPIB interface card

Benefits	Feature
Throughput	Fastest SCPI-mode frequency and amplitude switching speed in it's class (< 1.2 ms)
Uptime	– Reliable design with few assemblies – 100% internal diagnostics – 100% internal diagnostics – Self-service kits with pre-calibrated assemblies
Scalable performance	Add performance options using license key downloads via LAN
Connectivity	– 100 bT LAN (LXI class C) – USB 2.0 connectors – GPIB interface



N5181A works with Keysight U2000 Series USB Power Sensors to provide high accuracy power measurements

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