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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5162A MXG ATE Vector Signal Generator, up to 6 GHz

HP Agilent Keysight N5162A MXG ATE Vector Signal Generator 100 kHz to 3 or 6 GHz The Agilent N5162A is the blank-front-panel MXG ATE vector signal generator. OEM N5182A MXG and N5162A MXG ATE Vector Signal Generators data sheet 5989-5261EN lists 100 kHz to 3 GHz (Option 503) or 6 GHz (Option 506), 0.01 Hz resolution, optional plus 23 dBm, and internal baseband generator Options 651/652/654. Automated cellular/WLAN vector production test, rack ATE with rear-panel RF, and Signal Studio waveform playback. The Agilent N5162A is the blank-front-panel MXG ATE vector signal generator. OEM N5182A MXG and N5162A MXG ATE Vector Signal Generators data sheet 5989-5261EN lists 100 kHz to 3 GHz (Option 503) or 6 GHz (Option 506), 0.01 Hz resolution, optional plus 23 dBm, and internal baseband generator Options 651/652/654. Automated cellular/WLAN vector production test, rack ATE with rear-panel RF, and Signal Studio waveform playback. ATE blank panel vector MXG identical in RF/baseband to N5182A Optional high power 1EA to plus 23 dBm 50 MHz to 3 GHz



MODEL

**Agilent / Keysight
N5162A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5162A

LISTING

<https://aumictechlabs.com/products/n5162a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5162A MXG ATE Vector Signal Generator delivers signal generation from 100 kHz to 6 GHz for automated test equipment applications. Purpose-built for ATE integration, it

features rear-panel connectors and a blank front panel, eliminating unnecessary front-end controls for rack-mounted systems. The instrument combines fast frequency switching, wide dynamic range, and flexible modulation capabilities to support RF and wireless device characterization across multiple standards.

Technical Specifications

Frequency Performance
Range: 100 kHz to 3 GHz or 6 GHz (configuration-dependent) Resolution: 0.01 Hz Switching speed: ≤ 5 ms (SCPI/List modes, typical); ≤ 1.15 ms or ≤ 900 μ s with Option UNZ Digital sweep modes: step sweep (2 to 65535 points) and list sweep (1 to 1601 points) Dwell time range: 100 μ s to 100 seconds Triggering options: free run, external, timer, or bus (GPIB, LAN, USB)

Amplitude Characteristics
Output power: -110 dBm to +23 dBm (up to 3 GHz); maximum +18 dBm at 0 MHz, +10 dBm at 6 GHz Amplitude resolution: 0.02 dB (nominal) Step attenuator: 0 to 130 dB in 5 dB increments (electronic) Absolute level accuracy (CW, ALC on): ± 0.6 to ± 0.8 dB depending on frequency Maximum reverse power: 2 W nominal across 250 kHz to 6 GHz

Signal Quality
Phase noise: ≤ -121 dBc/Hz at 1 GHz, 20 kHz offset (typical) W-CDMA ACLR: -65 dBc (4-carrier)

Modulation types: AM, FM, phase modulation, pulse, ASK, FSK, MSK, PSK, QAM VSWR: 1.7:1 to 2.4:1 depending on frequency band

Key Features
High-speed frequency switching for list and step sweep applications Wide output power range with fine amplitude control Multiple trigger modes for ATE synchronization Low phase noise for demanding RF measurements Configurable frequency range options

Typical Applications
Wireless transceiver testing, multi-carrier signal simulation, receiver sensitivity characterization, and modulation quality verification in production environments.

Compatibility & Integration
Designed for ATE system integration with GPIB, LAN, and USB control interfaces. Rear-panel RF and control connections enable efficient slot-based installation in automated test racks.

N5162A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	MXG ATE vector signal generator
Series Family	Agilent N5162A/N5182A MXG vector
Frequency Range Option 5	100 kHz to 3 GHz
Minimum Frequency	100 kHz (performance below 250 kHz unspecified except as noted for serial 4742xxxx or greater)
Frequency Resolution	0.01 Hz
Phase Offset	adjustable in nominal 0.1 degree increments
Switching Speed Standard SCPI Digital Off Typical	less than or equal to 5 ms
Switching Speed Option UNZ List Digital Off Typical	less than or equal to 700 us
Internal Timebase Aging	less than or equal to plus or minus 5 ppm per 10 years; less than plus or minus 1 ppm per year nominal
Reference Output	10 MHz, greater than or equal to plus 4 dBm nominal into 50 ohm
External Reference Input Amplitude Nominal	greater than minus 3.5 to 20 dBm
Minimum Output Power	minus 110 dBm; minus 127 dBm with Option 1EQ (settable to minus 144 dBm unspecified below minus 127)
Maximum Output 50 MHz to 3 GHz Standard	plus 13 dBm
Maximum Output 50 MHz to 3 GHz Option 1EA	plus 23 dBm
Maximum Output 3 to 5 GHz Option 1EA	plus 17 dBm
Maximum Output Above 5 GHz Option 1EA	plus 16 dBm
Level Resolution	0.01 dB nominal
Step Attenuator	0 to 130 dB in 5 dB steps electronic
SWR To 1.7 GHz Typical	1.4:1
SWR 1.7 to 3 GHz Typical	1.55:1

PARAMETER	VALUE
Maximum Reverse Power Nominal	2 W, 100 kHz to 6 GHz; 50 Vdc
List Sweep Points	1 to 3201
Step Sweep Points	2 to 65535
Dwell Time	100 us to 100 s
ARB Capacity Standard	8 MSa; 64 MSa with Option 019
Segment Length	60 samples to 8 MSa (64 MSa Option 019)
Maximum Segments	8192 in playback memory with Option 019 class
External IQ Impedance Nominal	50 ohm
Remote Interface	SCPI GPIB LAN USB LXI
Form Factor	MXG ATE rack, rear-panel connectors
Datasheet Number	5989-5261EN
Operating Temperature	0 C to 55 C after 45 minute warm-up

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 55 C after 45 minute warm-up
Operating Temperature	0 C to 55 C after 45 minute warm-up

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	
Specifications	
PARAMETER	VALUE
Instrument Type	MXG ATE vector signal generator
Series Family	Agilent N5162A/N5182A MXG vector
Frequency Range Option 503	100 kHz to 3 GHz
Frequency Range Option 506	100 kHz to 6 GHz
Minimum Frequency	100 kHz (performance below 250 kHz unspecified except as noted for serial 4742xxxx or greater)
Frequency Resolution	0.01 Hz
Phase Offset	adjustable in nominal 0.1 degree increments
Switching Speed Standard SCPI Digital Off Typical	less than or equal to 5 ms
Switching Speed Option UNZ List Digital Off Typical: less than or equal to 700 us	
Specifications	
PARAMETER	VALUE
Internal Timebase Aging	less than or equal to plus or minus 5 ppm per 10 years; less than plus or minus 1 ppm per year nominal
Reference Output	10 MHz, greater than or equal to plus 4 dBm nominal into 50 ohm
External Reference Input Amplitude Nominal	greater than minus 3.5 to 20 dBm
Minimum Output Power	minus 110 dBm; minus 127 dBm with Option 1EQ (settable to minus 144 dBm unspecified below minus 127)
Maximum Output 50 MHz to 3 GHz Standard: plus 13 dBm Maximum Output 50 MHz to 3 GHz Option 1EA: plus 23 dBm Maximum Output 3 to 5 GHz Option 1EA: plus 17 dBm	
Specifications	
PARAMETER	VALUE
Maximum Output Above 5 GHz Option 1EA	plus 16 dBm
Level Resolution	0.01 dB nominal
Step Attenuator	0 to 130 dB in 5 dB steps electronic

PARAMETER	VALUE
SWR To 1.7 GHz Typical	1.4:1
SWR 1.7 to 3 GHz Typical	1.55:1
Maximum Reverse Power Nominal	2 W, 100 kHz to 6 GHz; 50 Vdc
List Sweep Points	1 to 3201
Step Sweep Points	2 to 65535
Dwell Time	100 us to 100 s
ARB Capacity Standard	8 MSa; 64 MSa with Option 019
Segment Length	60 samples to 8 MSa (64 MSa Option 019)
Maximum Segments	8192 in playback memory with Option 019 class
ExternalIQImpedance Nominal	50 ohm
Remote Interface	SCPI GPIB LAN USB LXI
Form Factor	MXG ATE rack, rear-panel connectors
Datasheet Number	5989-5261EN
Operating Temperature	0 C to 55 C after 45 minute warm-up

Notes

Numeric rows from Agilent N5182A MXG and N5162A MXG ATE Vector Signal Generators data sheet 5989-5261EN. N5162A is the ATE blank-panel version of N5182A.

Ordering Information

OPTION	DESCRIPTION
Option 019	Segment Length: 60 samples to 8 MSa (64 MSa Option 019)

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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NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.