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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5191A UXG X-Series Agile Signal Generator, Modified Version

Option 1EM: move all connectors to rear panel Option 1ED: Type-N female RF output on 20 GHz units Remote Interface: SCPI LAN USB plus optional LVDS/BCD/10GbE Vector Adapter Pair: N5192A requires N5191A CC1 and SS3 Option 1ED: Type-N female RF output on 20 GHz units Remote Interface: SCPI LAN USB plus optional LVDS/BCD/10GbE Vector Adapter Pair: N5192A requires N5191A CC1 and SS3 LO Reference To Adapter: N5191A provides 6 GHz reference and LO for N5192A



MODEL

**Agilent / Keysight
N5191A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5191A

LISTING

<https://aumictechlabs.com/products/n5191a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N5191A UXG X-Series Agile Signal Generator, Modified Version, is a RF signal source engineered for complex waveform generation in aerospace, defense, and wireless communication testing. It delivers fast frequency switching, phase coherency, and advanced modulation across a wide frequency range, enabling multi-emitter simulation, radar signal generation, antenna testing, and electronic warfare applications. The instrument's agile architecture supports complex pulse modulation, variable rise/fall times, and arbitrary waveforms with switching speeds as fast as 370 ns. Technical Specifications Frequency Range: 10 MHz to 40 GHz (option dependent) CW Frequency Resolution: 10 kHz Fine Frequency Resolution (Option FR1): 0.001 Hz Output Power

Standard Output Power: +10 dBm to -10 dBm Switching Speed Standard: 100 μ s up to 31.6 GHz; 500 μ s up to 40 GHz Optional: 1 μ s and 370 ns available DDS Switching: 170 ns for frequency, amplitude, and phase updates Phase Noise Standard: -117 dBc/Hz (typical) at 20 kHz offset, 10 GHz carrier Output Impedance 50 Ω nominalKey Features Modulation Capabilities AM, FM, phase modulation, and narrowband chirp FMCW chirp via Fast Control Port (FCP) in Normal mode Wideband Chirp (minimum 10%) with Options UT1 and PM2 Pulse modulation with 90 dB on/off ratio for narrow pulses Agile Performance Phase coherent switching returns to prior phase trajectory at repeated frequencies Phase continuous switching minimizes spectral splatter during band transitions Frequency and amplitude hopping enabled by UXG custom semiconductors Interfaces & Connectivity 50-pin BCD I/O interface 10 GB Ethernet I/O interface Connector adapters: 3.5 mm (20 GHz model); 2.4 mm and 2.4 mm to 2.9 mm (40 GHz model) External reference input supportTypical Applications Radar signal simulation, threat emulation, antenna characterization, EW system testing, multi-emitter environment replication, and RF subsystem validation requiring agile frequency control and phase coherency.Compatibility & Integration Designed for integration into existing threat simulators or deployment as a standalone RF source. Supports SCPI command control and external reference synchronization for networked test environments.

N5191A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	UXG X-Series agile signal generator modified version
Series Family	Keysight N5191A/N5193A UXG
Frequency Range Option 52E	10 MHz to 20 GHz
Frequency Range Option 54E	10 MHz to 40 GHz
Frequency Resolution Standard	10 kHz
Frequency Resolution Option FR	0.001 Hz
Switching Speed Standard To 31.6 GHz	100 us
Switching Speed Standard 31.6 to 40 GHz	500 us
Amplitude Range Standard	plus 10 dBm to minus 10 dBm
Phase Noise Typical 20 kHz Offset 10 GHz	minus 117 dBc/Hz
Output Impedance	50 ohm class
Remote Interface	SCPI LAN USB plus optional LVDS/BCD/10GbE
Vector Adapter Pair	N5192A requires N5191A CC1 and SS3
LO Reference To Adapter	N5191A provides 6 GHz reference and LO for N5192A
Form Factor	UXG X-Series benchtop/rack
Startup Assistance	one day on-site included in base product
Documentation Source	UXG Agile Signal Generator N5193A and N5191A configuration guide 5992-1116EN
Calibration Note	full spectral-purity tables are on N5191A data sheet 5992-1095EN

N5191A Specifications

PARAMETER	VALUE
Applications	Agile EW/radar stimulus where N5193A licensing is restricted, LO drive for the N5192A vector adapter, and fast-list microwave hopping.
Key Features	Modified UXG counterpart to N5193A
Optional SS3 180 ns class update (with band limits)	Optional AT2 80 dB agile / 120 dB overall amplitude range
Technical Specifications	Instrument Type: UXG X-Series agile signal generator modified version

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	UXG X-Series agile signal generator modified version
Series Family	Keysight N5191A/N5193A UXG
Frequency Range Option 52E	10 MHz to 20 GHz
Frequency Range Option 54E	10 MHz to 40 GHz
Frequency Resolution Standard	10 kHz
Frequency Resolution Option FR1	0.001 Hz
Switching Speed Standard To 31.6 GHz	100 us
Switching Speed Standard 31.6 to 40 GHz	500 us
Amplitude Range Standard	plus 10 dBm to minus 10 dBm
Phase Noise Typical 20 kHz Offset 10 GHz: minus 117 dBc/Hz Option EP1 Phase Noise Typical 10 kHz Offset 10 GHz: minus 126 dBc/Hz (N5193A EP1 row; same option family) Option AT2 Agile Range: 80 dB agile and 120 dB overall Option UNT: AM FM phase modulation narrowband chirp and LF output Option PM1: pulse modulation Option WC1: wideband chirp (requires UNT) Option CC1: 100-pin LVDS I/O required with N5192A Option 1EM: move all connectors to rear panel Option 1ED: Type-N female RF output on 20 GHz units	
Specifications	
PARAMETER	VALUE
Output Impedance	50 ohm class
Remote Interface	SCPI LAN USB plus optional LVDS/BCD/10GbE
Vector Adapter Pair	N5192A requires N5191A CC1 and SS3
L0 Reference To Adapter	N5191A provides 6 GHz reference and L0 for N5192A
Form Factor	UXG X-Series benchtop/rack
Startup Assistance	one day on-site included in base product
Documentation Source	UXG Agile Signal Generator N5193A and N5191A configuration guide 5992-1116EN
Calibration Note	full spectral-purity tables are on N5191A data sheet 5992-1095EN

Notes

Base-product and option numeric rows from Keysight UXG Agile Signal Generator N5193A and N5191A configuration guide 5992-1116EN N5191A base-product and option tables. Detailed warranted phase-noise versus offset tables belong on 5992-1095EN.

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 ·
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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.