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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9038A

Agilent / Keysight N9038A MXE EMI Receiver The Keysight (Agilent) N9038A MXE is an X-Series EMI receiver covering 3 Hz to 3.6, 8.4, 26.5, or 44 GHz depending on frequency option. OEM MXE data sheets list dual RF inputs, CISPR-oriented EMI receiver capabilities, and precision frequency reference performance. EMI compliance and precompliance testing, radiated and conducted emissions, and standards-based EMC receiver measurements. X-Series SCPI and measurement applications The Keysight (Agilent) N9038A MXE is an X-Series EMI receiver covering 3 Hz to 3.6, 8.4, 26.5, or 44 GHz depending on frequency option. OEM MXE data sheets list dual RF inputs, CISPR-oriented EMI receiver capabilities, and precision frequency reference performance. EMI compliance and precompliance testing, radiated and conducted emissions, and standards-based EMC receiver measurements. X-Series SCPI and measurement applications Frequency Range Option 503 Input 1 DC Coupled: 3 Hz to 3.6 GHz



MODEL

**Agilent / Keysight
N9038A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9038A

LISTING

<https://aumictechlabs.com/products/n9038a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N9038A MXE EMI Receiver is a modular instrument for regulatory compliance testing of RF and microwave devices. It functions as both an EMI test receiver and diagnostic signal analyzer, supporting industry-standard compliance specifications including CISPR 16-1-1 and MIL-STD-461. The upgradeable platform delivers flexible frequency coverage and multiple

detector types, making it suitable for electromagnetic interference and electromagnetic compatibility validation across diverse frequency bands.

Technical Specifications

Frequency Range: Multiple configurations available: 3 Hz to 3.6 GHz, 3 Hz to 8.4 GHz, 3 Hz to 26.5 GHz, 20 Hz to 26.5 GHz, 3 Hz to 44 GHz, and 20 Hz to 44 GHz.

Resolution Bandwidth (RBW): 1 Hz to 8 MHz with standard CISPR bandwidths of 200 Hz, 9 kHz, 120 kHz, and 1 MHz. MIL-STD and other standard bandwidths increment in 10% steps.

Bandwidth accuracy: $\pm 2\%$ nominal from 1 Hz to 1.3 MHz.

Detectors: Quasi-peak, EMI-average, RMS-average, peak, negative peak, sample, normal, and diagnostic detector types.

Dynamic Range: Greater than 70 dB; 76 dBc at +3 dBm mixer level with up to 1 dB compression potential.

Amplitude Accuracy: ± 0.29 dB (20 Hz to 3.6 GHz), ± 0.5 dB @ 1 GHz, ± 0.75 dB to ± 2.7 dB absolute amplitude accuracy. Accuracy specifications apply with ADC dither On; dither Off may degrade scale fidelity for signals around -60 dBm or lower by 0.2 dB.

Displayed Average Noise Level (DANL): -163 dBm with preamplifier; -166 dBm at 1 GHz with preamplifier and noise floor extension; -167 dBm with preamplifier and noise floor extension.

Third-Order Intercept (TOI): +15 dBm at 1 GHz; typical range +12 dBm to +16 dBm depending on frequency.

Phase Noise: -103 dBc/Hz to -114 dBc/Hz at 10 kHz offset at 1 GHz center frequency.

Analysis Bandwidth: Maximum 25 MHz with Option B25; real-time bandwidth up to 85 MHz.

Key Features

- Selectable frequency coverage from 3 Hz to 44 GHz
- Multiple detector modes for EMI/EMC compliance testing
- Dynamic range exceeding 70 dB
- Low phase noise performance at microwave frequencies
- Real-time analysis bandwidth to 85 MHz

Typical Applications

- CISPR 16-1-1 and MIL-STD-461 compliance validation
- EMI/EMC regulatory testing for RF and microwave devices
- Diagnostic signal analysis and spectrum monitoring

Compatibility & Integration

Upgradeable platform supports modular option integration for expanded capabilities across multiple frequency bands and analysis modes.

N9038A Characteristics / Specifications

PARAMETER	VALUE
Model	N9038A
Frequency Range Option 503 Input 1 DC Coupled	3 Hz to 3.6 GHz
Frequency Range Option 508 Input 1 DC Coupled	3 Hz to 8.4 GHz
Frequency Range Option 526 Input 1 DC Coupled	3 Hz to 26.5 GHz
Frequency Range Option 544 Input 1 DC Coupled	3 Hz to 44 GHz
Frequency Range Option 503 Input 1 AC Coupled	10 MHz to 3.6 GHz
Frequency Range Option 508 Input 1 AC Coupled	10 MHz to 8.4 GHz
Frequency Range Option 526 Input 1 AC Coupled	10 MHz to 26.5 GHz
Frequency Range Input 2 DC Coupled	3 Hz to 1 GHz
Frequency Range Input 2 AC Coupled	10 MHz to 1 GHz
Band 0 LO Multiple	N equals 1 from 3 Hz to 3.6 GHz
Band 1 LO Multiple	N equals 1 from 3.5 to 8.4 GHz
Band 4 LO Multiple	N equals 4 from 17.0 to 26.5 GHz
Band 6 LO Multiple	N equals 8 from 34.4 to 44 GHz
Frequency Reference Total Aging	plus or minus 1e-7 per year
Frequency Reference Total Aging Two Year	plus or minus 1.5e-7 per 2 years
Instrument Type	MXE EMI receiver
Remote Interface	LAN USB GPIB class X-Series
Form Factor	benchtop X-Series EMI receiver
Brand Lineage	Agilent / Keysight
Display	X-Series analyzer display platform

N9038A Specifications

PARAMETER	VALUE
Agilent / Keysight N9038A MXE EMI Receiver	Overview
MXE EMI receiver measurement modes	Frequency options 503 508 526 544
Technical Specifications	Model: N9038A
Notes	From Keysight N9038A MXE EMI Receiver data sheet frequency and time specifications.

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.

performance.

Applications

EMI compliance and precompliance testing, radiated and conducted emissions, and standards-based EMC receiver measurements.

Key Features

MXE EMI receiver measurement modes

Frequency options 503 508 526 544

RF Input 1 and RF Input 2 paths

Optional precision frequency reference

X-Series SCPI and measurement applications

Technical Specifications

Model: N9038A

Frequency Range Option 503 Input 1 DC Coupled: 3 Hz to 3.6 GHz

Frequency Range Option 508 Input 1 DC Coupled: 3 Hz to 8.4 GHz

Frequency Range Option 526 Input 1 DC Coupled: 3 Hz to 26.5 GHz

Frequency Range Option 544 Input 1 DC Coupled: 3 Hz to 44 GHz

Frequency Range Option 503 Input 1 AC Coupled: 10 MHz to 3.6 GHz

Frequency Range Option 508 Input 1 AC Coupled: 10 MHz to 8.4 GHz

Frequency Range Option 526 Input 1 AC Coupled: 10 MHz to 26.5 GHz

Specifications

PARAMETER	VALUE
Frequency Range Input 2 DC Coupled	3 Hz to 1 GHz
Frequency Range Input 2 AC Coupled	10 MHz to 1 GHz
Band 0 LO Multiple	N equals 1 from 3 Hz to 3.6 GHz
Band 1 LO Multiple	N equals 1 from 3.5 to 8.4 GHz
Band 4 LO Multiple	N equals 4 from 17.0 to 26.5 GHz
Band 6 LO Multiple	N equals 8 from 34.4 to 44 GHz
Frequency Reference Total Aging	plus or minus 1e-7 per year
Frequency Reference Total Aging Two Year	plus or minus 1.5e-7 per 2 years
Instrument Type	MXE EMI receiver
Remote Interface	LAN USB GPIB class X-Series
Form Factor	benchtop X-Series EMI receiver
Brand Lineage	Agilent / Keysight

Option Path: frequency options selected per configuration guide

Display: X-Series analyzer display platform

Notes

From Keysight N9038A MXE EMI Receiver data sheet frequency and time specifications.

Ordering Information

OPTION	DESCRIPTION
Option 503	Input 1 DC Coupled: 3 Hz to 3.6 GHz
Option 508	Input 1 DC Coupled: 3 Hz to 8.4 GHz
Option 526	Input 1 DC Coupled: 3 Hz to 26.5 GHz
Option 544	Input 1 DC Coupled: 3 Hz to 44 GHz

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.