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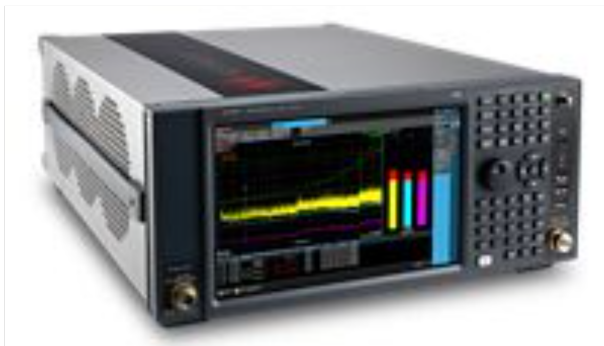
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9038B

Agilent / Keysight N9038B MXE EMI Receiver The Keysight (Agilent) N9038B 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) N9038B 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
N9038B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9038B

LISTING

<https://aumictechlabs.com/products/n9038b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9038B MXE EMI Receiver is a standards-compliant diagnostic signal analyzer purpose-built for EMC testing and regulatory compliance verification. Operating from 3 Hz to 44 GHz with configurable frequency options, the instrument delivers real-time spectrum analysis up to 160 MHz bandwidth and achieves exceptional sensitivity with DANL of -163 dBm at 1 GHz (-167

dBm with RF preselector enabled). Its upgradeable architecture supports CISPR 16-1-1:2019, MIL-STD-461G, ANSI C63.2, and FCC compliance workflows.

Technical Specifications

Frequency Coverage & Bandwidth Frequency range: 3 Hz to 44 GHz (configurable to 3.6 GHz, 8.4 GHz, or 26.5 GHz) Analysis bandwidth: 10 MHz, 25 MHz, 85 MHz, or 160 MHz maximum Real-time bandwidth: 25 MHz or 85 MHz options (up to 160 MHz $\leq$ 3.6 GHz; 40 MHz $>$ 3.6 GHz) IF bandwidth: 10 Hz to 100 kHz; 200 Hz, 9 kHz, 120 kHz, 1 MHz standard Video bandwidth: 1 Hz to 8 MHz Resolution bandwidth: 1 Hz to 8 MHz Signal Sensitivity & Linearity DANL @ 1 GHz: -163 dBm (standard); -167 dBm (with RF preselector) Phase noise @ 1 GHz (10 kHz offset): -114 dBc/Hz Third-order intercept (TOI): +15 dBm @ 1 GHz; 20 dBm IP3 Dynamic range: 76 dBc Amplitude accuracy: ± 0.25 to 0.27 dB Spurious response: -108 to -60 dBc Real-Time & Measurement Performance Minimum signal duration (100% POI at full amplitude accuracy): 3.7 μ s Spectrogram FFT rate: 292,969 scans/second Supported triggers: Level, Level with Time Qualified, Line, External, RF burst, Frame, Frequency Mask (with TQT option) Detection methods: Quasi-Peak, EMI-Average, Normal, Peak, Sample, Negative Peak, Log Power Average, RMS Average, Voltage Average

Key Features Real-time spectrum analysis (RTSA) with 100% probability of intercept Time domain scanning with FFT overlap for accelerated capture (Option N90EMTDSB) AM/FM one-button measurement via analog demodulation (Option N9063EM0E) Multi-touch display with intuitive interface optimized for operator efficiency EMI test receiver and spectrum analyzer measurement applications built-in Future upgrade pathways to extend instrument capability and operational life

Typical Applications CISPR 16-1-1 and MIL-STD-461G compliance testing Broadband and narrowband EMI characterization Rapid threat detection and signal classification in real-time monitoring Conducted and radiated emissions diagnostics Frequency domain and transient signal analysis

Compatibility & Integration The N9038B operates on Keysight's X-Series software ecosystem, enabling integration with existing test workflows and measurement automation frameworks.

N9038B Characteristics / Specifications

PARAMETER	VALUE
Model	N9038B
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

N9038B Specifications

PARAMETER	VALUE
Agilent / Keysight N9038B MXE EMI Receiver	Overview
MXE EMI receiver measurement modes	Frequency options 503 508 526 544
Technical Specifications	Model: N9038B
Notes	From Keysight N9038B 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: N9038B

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 N9038B 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.