

KEYSIGHT TECHNOLOGIES (AGILENT HP)

M9384B

The Keysight M9384B VXG Microwave Signal Generator is a high-performance vector signal generator designed for demanding wideband applications such as 5G NR, satellite communication, and radar test. It offers frequency options up to 44 GHz, up to 2 GHz of internal RF modulation bandwidth, and multi-channel coherence in a headless 5U system.

SPECIFICATIONS

General

Interfaces	LAN (1000Base-T, QSFP28), USB 3.0, USB 2.0, DisplayPort
Display	None (headless design, remote UI or external monitor required)
Warm-up Time	45 minutes
Recommended Calibration Cycle	2 years

Physical

Power Supply	100 to 240 VAC, 50 to 60 Hz
Operating Temperature	0 to 40 °C °C
Dimensions (W×H×D)	177 mm x 438 mm x 589 mm mm
Weight	24.3 kg (2-channel configuration) kg

Frequency & Channels

Frequency Range (Option F32)	1 MHz to 32 GHz
Frequency Range (Option F44)	1 MHz to 44 GHz
Number of Channels	1 or 2 (configuration dependent)
Channel Configurations	Option 1GP (1 channel), Option 2GP (2 channels)
Frequency Resolution	0.01 Hz
Phase Coherence	Yes (for multi-channel models)
Channel-to-Channel Skew Resolution	1 ps

Modulation & Bandwidth

RF Modulation Bandwidth (Option B10)	1 GHz
RF Modulation Bandwidth (Option B20)	2 GHz
Internal Modulation Bandwidth	Up to 2 GHz per channel (configuration dependent)
Vector Modulation Formats	Custom IQ, AM, FM, PM, Pulse, Multi-tone

Spectral Purity & Performance

SSB Phase Noise at 10 GHz (10 kHz offset)	-126 dBc/Hz (typical)
SSB Phase Noise at 28 GHz (10 kHz offset)	-118 dBc/Hz (typical)

RF Output Characteristics

Standard Output Power at 28 GHz	+13 dBm
High Output Power Option	Option 1HP (for 1 channel) or Option 2HP (for 2 channels)
Output Impedance	50 Ω
RF Output Connector Type	2.4 mm (female)
Amplitude Resolution	0.01 dB
Attenuator Range	0 to 80 dB (electronic)

Baseband & Waveform Generation

Baseband Generator DAC Resolution	14-bit
Baseband Generator Sample Rate	2.4 GSa/s
Playback Memory (Standard)	256 MSamples per channel (Option M02)
Playback Memory (Maximum)	1024 MSamples per channel (Option M10)

System & Connectivity

Real-Time IQ Streaming Port	2x QSFP28 interfaces
Operating System	Windows 10 IoT Enterprise 64-bit
Software Support	PathWave Signal Generation (Signal Studio)
Software Drivers	IVI-COM, IVI-C, LabVIEW
Remote Control Language	SCPI
External Reference Inputs	10 MHz / 100 MHz

Environmental & General

Storage Temperature	-40 to +70 °C
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RF Output Performance

Amplitude Accuracy (at 28 GHz)	± 0.7 dB (typical)
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Phase

Channel-to-Channel Phase Stability	< 1° over 24 hours (typical, at 28 GHz)
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Inputs & Outputs

Optical Streaming Ports	2x QSFP28 (with Option ASX)
10 MHz Reference Input Connector	BNC female
100 MHz Reference Input Connector	BNC female
Reference Output Connectors	BNC female

Environmental

Operating Humidity	10% to 90% RH (non-condensing)
Operating Altitude	Up to 3,000 meters

Compliance & Standards

EMC Compliance	EN 61326-1, CISPR 11 Class A
Safety Standards	IEC 61010-1, EN 61010-1, CAN/CSA-C22.2 No. 61010-1

Interfaces

Front Panel USB Ports	USB 3.0 Type-A
Video Interface	DisplayPort

TECHNOLOGY

Vector Signal Generator

APPLICATIONS

5G NR, satellite communications, radar, aerospace and defense

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.