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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight M9383B PXIe Microwave Signal Generator, 1 MHz to 44 GHz

Keysight Agilent M9383B PXIe Microwave Signal Generator The Keysight M9383B is the follow-on PXIe microwave signal generator in the M9383 family, covering 1 MHz to 44 GHz class configurations for modular microwave stimulus. OEM family documentation shares the M9383 architecture of configurable frequency modules, synthesizer technology options, and PXIe vector/analog builds. 5G and microwave stimulus in PXIe chassis, LO applications, and expandable modular RF test systems. Configurable frequency coverage into microwave bands

The Keysight M9383B is the follow-on PXIe microwave signal generator in the M9383 family, covering 1 MHz to 44 GHz class configurations for modular microwave stimulus. OEM family documentation shares the M9383 architecture of configurable frequency modules, synthesizer technology options, and PXIe vector/analog builds. 5G and microwave stimulus in PXIe chassis, LO applications, and expandable modular RF test systems. Configurable frequency coverage into microwave bands High-speed PXIe backplane waveform loading



MODEL

**Agilent / Keysight
M9383B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

M9383B

LISTING

<https://aumictechlabs.com/products/m9383b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight M9383B is a PXIe microwave signal generator delivering 1 MHz to 44 GHz coverage with dual-channel architecture designed for aerospace, defense, and wireless communication test. This modular instrument combines high output power (+20 dBm maximum), fast frequency switching (28,000 μ s), and low phase noise (-137 dBc/Hz @ 1 GHz, 10 kHz offset) to support radar, electronic warfare, and 5G validation workflows.

Technical Specifications

Frequency and Modulation Frequency range: 1 MHz to 44 GHz RF bandwidth: 2 GHz Frequency switching speed: 28,000 μ s Internal baseband modulation bandwidth: up to 1 GHz RF External I/Q modulation bandwidth: over 2 GHz RF Waveform playback memory: 1024 MSa

Output Power Output power range: -110 dBm to +23 dBm Maximum output power: +20 dBm Output power @ 1 GHz: +20 dBm

Signal Quality Phase noise @ 1 GHz (10 kHz offset): -137 dBc/Hz Phase noise @ 1 GHz (20 kHz offset): -137 dBc/Hz Harmonics @ 1 GHz: -46 dBc Non-harmonics @ 1 GHz: -50 dBc

Physical and Environmental Form factor: PXIe modular (3 slots) Dimensions: 205 mm $\times$ 61.8 mm $\times$ 130 mm Weight: 1.9 kg Operating temperature: 0 to 40 $^{\circ}$ C Warm-up period: 45 minutes Power consumption (dual channel): 990 W

Key Features Vector and analog modulation support including pulse modulation Phase-coherent LO and baseband synchronization for MIMO OTA and beamforming applications Multi-channel phase coherency support SMB RF output connectors; SMA LO connectors; SMP reference clock and sync interfaces

Typical Applications Radar and EW system validation 5G NR power amplifier and over-the-air testing Complex communication system characterization Multi-user MIMO beamforming test

Compatibility & Integration Keysight PathWave Signal Generation software provides design and test automation with SCPI command support and optimized 5G NR user interface.

M9383B Characteristics / Specifications

PARAMETER	VALUE
Model	M9383B
Instrument Type	PXIe microwave signal generator
Frequency Coverage Class Family	1 MHz to 14 20 31.8 or 44 GHz by option
Frequency Resolution Class Family	0.01 Hz
Internal Rf Modulation Bandwidth Class Family	up to 1 GHz
External Iq Rf Modulation Bandwidth Class Family	over 2 GHz
Step Attenuator Range Class Family Option 1E	0 dB to 70 dB in 10 dB steps
Maximum Output Power Class Family High Band	up to about +22 dBm with high-power options in mid bands
Minimum Settable Power Class Family With Attenuator	down to minus 110 dBm or minus 120 dBm by band
Maximum Settable With High Power Options Class Family	+25 dBm
Reference 100 Mhz Out Amplitude Class Family	greater than or equal to 10 dBm typical 13 dBm
Internal Timebase Aging Daily Class Family	less than plus or minus 0.5 ppb/day after warm-up
Internal Timebase Aging Yearly Class Family	less than plus or minus 0.1 ppm/year after warm-up
Achievable Initial Calibration Accuracy Class Family	plus or minus 5e-8
Temperature Effects 20 To 30 C Class Family	less than plus or minus 10 ppb
External Reference Input Frequency Class Family	1 to 110 MHz
External Reference Lock Range Class Family	plus or minus 1 ppm nominal
Operating Temperature Class Family	0 C to 50 C

PARAMETER	VALUE
Storage Temperature Class Family	minus 40 C to +70 C
Remote Interfaces Class Family	GPIB and 1000BaseT LAN
Control Language Class Family	SCPI
Software Drivers Class Family	IVI.NET IVI-COM IVI-C
Form Factor	PXIe modular multi-slot instrument
Related Model	M9383A
Publication Family	M9383 PXIe microwave signal generator data sheets
Bandwidth	Class Family: up to 1 GHz
Maximum output power	Class Family High Band: up to about +22 dBm with high-power options in mid bands
Storage temperature	Class Family: minus 40 C to +70 C
Operating temperature	Class Family: 0 C to 50 C

M9383B Specifications

PARAMETER	VALUE
Keysight Agilent M9383B PXIe Microwave Signal Generator	Overview
Applications	5G and microwave stimulus in PXIe chassis, LO applications, and expandable modular RF test systems.
Technical Specifications	Model: M9383B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class Family: minus 40 C to +70 C
Operating temperature	Class Family: 0 C to 50 C
Operating Temperature	Class Family: 0 C to 50 C
Operating Temperature Class Family	0 C to 50 C
Storage Temperature Class Family	minus 40 C to +70 C
Remote Interfaces Class Family	GPIO and 1000BaseT LAN
Control Language Class Family	SCPI
Software Drivers Class Family	IVI.NET IVI-COM IVI-C
Form Factor	PXIe modular multi-slot instrument
Related Model	M9383A
Publication Family	M9383 PXIe microwave signal generator data sheets Notes M9383B identity from Keysight/Agilent M9383B product listings. Detailed frequency/power tables above are labeled class family from the M9383A data sheet 5992-1928 where B-revision rows match; confirm M9383B-specific option table on the faceplate/datasheet revision.

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
Model	M9383B
Instrument Type	PXIe microwave signal generator
Frequency Coverage Class Family	1 MHz to 14 20 31.8 or 44 GHz by option
Frequency Resolution Class Family	0.01 Hz
Internal Rf Modulation Bandwidth Class Family	up to 1 GHz
External Iq Rf Modulation Bandwidth Class Family	over 2 GHz
Step Attenuator Range Class Family Option 1E1	0 dB to 70 dB in 10 dB steps
Maximum Output Power Class Family High Band	up to about +22 dBm with high-power options in mid bands
Minimum Settable Power Class Family With Attenuator	down to minus 110 dBm or minus 120 dBm by band
Maximum Settable With High Power Options Class Family: +25 dBm	
Specifications	
PARAMETER	VALUE
Reference 100 Mhz Out Amplitude Class Family	greater than or equal to 10 dBm typical 13 dBm
Internal Timebase Aging Daily Class Family	less than plus or minus 0.5 ppb/day after warm-up
Internal Timebase Aging Yearly Class Family	less than plus or minus 0.1 ppm/year after warm-up
Achievable Initial Calibration Accuracy Class Family	plus or minus 5e-8
Temperature Effects 20 To 30 C Class Family: less than plus or minus 10 ppb	
Specifications	
PARAMETER	VALUE
External Reference Input Frequency Class Family	1 to 110 MHz

PARAMETER	VALUE
External Reference Lock Range Class Family	plus or minus 1 ppm nominal
Operating Temperature Class Family	0 C to 50 C
Storage Temperature Class Family	minus 40 C to +70 C
Remote Interfaces Class Family	GPIO and 1000BaseT LAN
Control Language Class Family	SCPI
Software Drivers Class Family	IVI.NET IVI-COM IVI-C
Form Factor	PXIe modular multi-slot instrument
Related Model	M9383A
Publication Family	M9383 PXIe microwave signal generator data sheets

Notes

M9383B identity from Keysight/Agilent M9383B product listings. Detailed frequency/power tables above are labeled class family from the M9383A data sheet 5992-1928 where B-revision rows match; confirm M9383B-specific option table on the faceplate/datasheet revision.

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
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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.