

**Aumictech**

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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8267D PSG Vector Signal Generator, 100 kHz to 44 GHz

Agilent E8267D PSG Vector Signal Generator The Agilent E8267D isaPSG series vector signal generator combining PSG microwave coverage with wideband internal I/Q modulation. OEM PSG vector materials list frequency options into the microwave and millimeter-wave bands with high-fidelity complex modulation for aerospace and advanced wireless research. Wideband vector-modulated microwave stimulus, radar and satellite waveform tests, and high-performance receiver testing requiring PSG phase noise. Frequency Maximum Options: microwave to mmWave PSG option set The Agilent E8267D isaPSG series vector signal generator combining PSG microwave coverage with wideband internal I/Q modulation. OEM PSG vector materials list frequency options into the microwave and millimeter-wave bands with high-fidelity complex modulation for aerospace and advanced wireless research. Wideband vector-modulated microwave stimulus, radar and satellite waveform tests, and high-performance receiver testing requiring PSG phase noise. Frequency Maximum Options: microwave to mmWave PSG option set



MODEL

**Agilent / Keysight
E8267D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8267D

LISTING

<https://aumictechlabs.com/products/e8267d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E8267D PSG Vector Signal Generator delivers signal generation across 100 kHz to 44 GHz, with extendable capability to 500 GHz or 1.1 THz via millimeter-wave frequency extenders. This fully integrated microwave vector signal generator produces complex, realistic waveforms for demanding aerospace, defense, satellite communications, and broadband wireless applications. The instrument combines wide frequency coverage with advanced I/Q modulation, multiple sweep modes, and phase noise performance.

Technical Specifications

Frequency Range: 100 kHz to 44 GHz (extendable to 500 GHz or 1.1 THz with external extenders)

Output Power: +23 dBm typical (0.4–20 GHz); +18 dBm typical at 40 GHz

Phase Noise: –143 dBc/Hz typical at 1 GHz, 10 kHz offset (with Option UNY); –120 dBc/Hz typical at 10 GHz, 10 kHz offset

I/Q Modulation Bandwidth: Up to 2 GHz RF modulation bandwidth (external I/Q inputs above 3.2 GHz carrier); up to 260 MHz below 3.2 GHz; standard external I/Q provides 160 MHz RF modulation bandwidth; internal/external modulation: 80 MHz to 4 GHz

Baseband Generator Memory: 8 Msa standard; 64 Msa with Option 602

Sweep Settling Time: <8 ms frequency (typical); <5 ms amplitude (typical)

Key Features

Vector modulation with I/Q capability to 44 GHz

Advanced wideband internal baseband generator for arbitrary waveform and real-time signal generation

Modulation formats: AM, FM, phase modulation, pulse, ASK, FSK, MSK, PSK, QAM, custom I/Q

Pulse modulation options: 150 ns minimum pulse width (Option UNU); 20 ns minimum pulse width (Option UNW)

Step sweep (2–65535 points), **list sweep** (2–1601 points per table), and **ramp sweep** (Option 007) of frequency and/or amplitude

Dwell time adjustable from 1 ms to 60 s

Excellent spectral purity characteristics

Typical Applications

Aerospace and defense radar signal simulation, satellite communication testing, wideband wireless protocol development, millimeter-wave component characterization, complex modulation research and validation.

Compatibility & Integration

External I/Q inputs support flexible modulation bandwidth selection. Frequency extenders enable operation into millimeter-wave bands. Multiple modulation and sweep options provide customization for specialized measurement and test scenarios.

E8267D Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Minimum	250 kHz
Frequency Maximum Options	microwave to mmWave PSG option set
Instrument Type	high performance vector signal generator
Series Family	Agilent PSG E8267D
Modulation	vector I/Q with internal ARB
Baseband Bandwidth Class	wide PSG vector BW class
Phase Noise Class	ultra low PSG phase noise class
Output Power Class	high leveled PSG power class
Analog Modulation Class	AM FM phase pulse options
Pulse Modulation	available
Reference Oscillator	high stability OCXO class options
RF Output Connector Class	band dependent precision coax
Waveform Software	Signal Studio ecosystem class
ALC Leveling	supported
Sibling Analog Model	E8257D PSG analog
ExternalIQInputs	available class
Frequency Resolution Class	fine synthesis resolution class
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class
Bandwidth	Class: wide PSG vector BW class
Operating temperature	Class: standard laboratory class

E8267D Specifications

PARAMETER	VALUE
Agilent E8267D PSG Vector Signal Generator	Overview
Wideband internal baseband I/Q	Ultra low phase noise PSG LO
Technical Specifications	Frequency Range Minimum: 250 kHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
Operating Temperature	Class: standard laboratory class
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes From Agilent/Keysight E8267D PSG vector product documentation. Quote installed frequency and baseband options for exact bandwidth and level tables.

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 receiver testing requiring PSG phase noise.	
Key Features	
PSG vector signal generator platform	
Wideband internal baseband I/Q	
Ultra low phase noise PSG LO	
Microwave and mmWave frequency options	
LAN GPIB remote automation	
Technical Specifications	
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PARAMETER	VALUE
Frequency Range Minimum	250 kHz
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Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class

PARAMETER

VALUE

Firmware Upgrade Path

option and firmware upgradeable class

Notes

From Agilent/Keysight E8267D PSG vector product documentation. Quote installed frequency and baseband options for exact bandwidth and level tables.

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.