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Data Sheet

August 13, 2026

AGILENT / HP / KEYSIGHT

Agilent HP Keysight E8257N PSG Analog Sweep Generator

Keysight E8257N PSG Analog Signal Generator 10 MHz to 40 GHz (50 GHz option) The Keysight E8257N is a fully synthesized PSG analog signal generator with high output power, low phase noise, and optional ramp sweep. Standard coverage is 10 MHz to 40 GHz; Option 550 with 340/UNIX extends 250 kHz to 50 GHz. Navy/NSN configurations exist for militarized deployments. The Keysight E8257N is a fully synthesized PSG analog signal generator with high output power, low phase noise, and optional ramp sweep. Standard coverage is 10 MHz to 40 GHz; Option 550 with 340/UNIX extends 250 kHz to 50 GHz. Navy/NSN configurations exist for militarized deployments.

**MODEL****Agilent / HP /
Keysight E8257N****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E8257N****LISTING**<https://aumictechlabs.com/products/e8257n-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent HP Keysight E8257N PSG is a fully synthesized analog signal generator delivering precision RF output across multiple configurable frequency bands. Built for demanding RF and microwave test applications, it combines wide frequency coverage, fine frequency resolution, and flexible modulation to support component characterization, system integration, and production test environments. Technical Specifications Frequency Range & Resolution The E8257N offers six frequency band options: 250 kHz to 20 GHz (Option 520), 10 MHz to 20 GHz (Option 521), 250

kHz to 31.8 GHz (Option 532), 250 kHz to 40 GHz (Option 540), 250 kHz to 50 GHz (Option 550), and 250 kHz to 67 GHz (Option 567). All bands operate down to 100 kHz. Frequency resolution is 0.001 Hz across all modes. Output PowerStandard RF output spans -105 dBm to +10 dBm at 18 GHz and +7 dBm at 40 GHz. High output power and ultrahigh output power options are available. Maximum power is warranted from 15 to 35 °C and typical from 0 to 15 °C, with degradation less than 2 dB at 35 to 55 °C. Spectral PurityPhase noise measures typically -126 dBc/Hz at 10 GHz carrier with 10 kHz offset. Enhanced phase noise options (UNR, UNX, UNY) and improved harmonics below 2 GHz (Option 1EH) are available.Key Features Analog modulation: AM, FM, phase modulation, and LF output (Option UNT) Pulse and narrow pulse modulation (Options UNU, UNW) Step and ramp sweep with 1 ms to 60 s sweep time Ten independent continuously variable frequency markers Frequency switching within 0.1 ppm (above 250 MHz) or 100 Hz (below 250 MHz) CW switching speed ≥ 5 ms nominal; 30–40 ms with Option HY2 45-minute warm-up time required Operating temperature: 0 to 50 °CTypical Applications Component and subsystem characterization, receiver sensitivity testing, transmitter validation, and production alignment across microwave and millimeter-wave bands.Compatibility & Integration Front panel S-type connectors for RF output and control interfaces support GPIB triggering and marker functionality.

Features & description

From manufacturer datasheet

Features

- Standard frequency 10 MHz to 40 GHz • Option 550 extends to 50 GHz (with 340 and UNX) • Frequency resolution 0.001 Hz • Switching time less than 11 ms typical / 7 ms nominal class • Ultra low phase noise Option UNX • High output power Option 1EU • Optional ramp sweep capability

Applications

- Microwave LO substitution and component stimulus to 40/50 GHz • Low phase noise signal generation for radar and EW test • Optional analog ramp sweep for network analysis sources • High power Option 1EU for overcoming path losses

E8257N Characteristics / Specifications

PARAMETER	VALUE
Model	E8257N
Manufacturer	Keysight
Instrument Type	PSG Analog Signal Generator
Alias	E8257N; Keysight E8257N PSG
Frequency range standard	10 MHz to 40 GHz
Frequency range Option 5	250 kHz to 50 GHz
Frequency resolution	0.001 Hz
Switching time typical	less than 11 ms
Switching time nominal	7 ms
Phase offset resolution	0.1 degree nominal
Internal timebase	OCXO
Aging rate standard	less than +/-1e-9 /hr after warmup class
Aging Option UNX	less than +/-3e-8 /yr or +/-2.5e-10 /day class
External reference	10 MHz
Reference output level typical	greater than +4 dBm into 50 ohm
NSN class	6625-01-569-7669 listed configurations
RF connector class	2.4 mm on high-frequency PSG configs
Remote control	GPIB LAN class
Sweep	optional ramp sweep Notes Specs from Keysight E8257N PSG Analog Sweep Generator data sheet. Confirm Option 340/UNX/1EU/550 and RF connector on the unit.

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	
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PARAMETER	VALUE
Model	E8257N
Manufacturer	Keysight
Instrument Type	PSG Analog Signal Generator
Alias	E8257N; Keysight E8257N PSG
Frequency range standard	10 MHz to 40 GHz
Frequency range Option 550	250 kHz to 50 GHz
Frequency resolution	0.001 Hz
Switching time typical	less than 11 ms
Switching time nominal	7 ms
Phase offset resolution	0.1 degree nominal
Internal timebase	OCXO
Aging rate standard	less than +/-1e-9 /hr after warmup class
Aging Option UNX	less than +/-3e-8 /yr or +/-2.5e-10 /day class
External reference	10 MHz
Reference output level typical	greater than +4 dBm into 50 ohm
Option 340: enhanced performance and functionality	
Option UNX: ultra low phase noise (requires 340)	
Option 1EU: high output power (requires 340)	
Option 1EH: improved harmonics below 2 GHz (requires 340)	
Option 008: 8 GB removable flash (requires 340)	
Option 550: 250 kHz to 50 GHz (requires 340 and UNX)	
Option 1CM: rackmount flange kit	
Specifications	
PARAMETER	VALUE
NSN class	6625-01-569-7669 listed configurations
RF connector class	2.4 mm on high-frequency PSG configs
Remote control	GPIB LAN class
Sweep	optional ramp sweep

Notes

Specs from Keysight E8257N PSG Analog Sweep Generator data sheet. Confirm Option 340/UNIX/1EU/550 and RF connector on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 550	with 340/UNIX extends 250 kHz to 50 GHz. Navy/NSN configurations exist for militarized deployments.

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

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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.