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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E8257DV1B

Keysight E8257DV1B VDI WR1.5 Signal Generator Frequency Extender 500 to 750 GHz The Keysight E8257DV1B isaVDI WR1.5 SGX extender covering 500 to 750 GHz at minus 21 dBm typical. OEM E8257D configuration guide lists E8257DV1B WR1.5 SGX 500 to 750 GHz at minus 21 dBm, requiring N5262VDI-175, with the shared SGX dual RF-input and TTL AM architecture. WR1.5 THz source extension for spectroscopy and high-frequency research. Instrument Type: Signal generator frequency extension module The Keysight E8257DV1B isaVDI WR1.5 SGX extender covering 500 to 750 GHz at minus 21 dBm typical. OEM E8257D configuration guide lists E8257DV1B WR1.5 SGX 500 to 750 GHz at minus 21 dBm, requiring N5262VDI-175, with the shared SGX dual RF-input and TTL AM architecture. WR1.5 THz source extension for spectroscopy and high-frequency research. Instrument Type: Signal generator frequency extension module Standard Rf Input Connector: 2.92 mm female

**MODEL****Agilent / Keysight
E8257DV1B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E8257DV1B****LISTING**<https://aumictechlabs.com/products/e8257dv1b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8257D PSG is a microwave signal generator delivering output power, metrology-grade level accuracy, and superior phase noise performance across frequencies up to 67 GHz. This fully-synthesized source supports pulse, FM, and Φ M modulation, making it suitable for demanding RF and microwave test environments requiring precision frequency and level control.

Frequency extension capabilities expand the E8257D into the millimeter-wave and terahertz bands through Virginia Diodes, Inc. (VDI) SGX modules. These amplifier/multiplier chain (AMC) extensions preserve the accuracy and resolution of the base unit while enabling test signal generation up to 1.1 THz.

Technical Specifications

Frequency Range (Base Unit): Up to 67 GHz
Frequency Range (With Extenders): Up to 1.1 THz
Output Power: across frequency range; module-dependent output from +8 dBm to +20 dBm
Level Accuracy: Metrology-grade
Phase Noise: Superior performance specification
Modulation: Pulse, FM, Φ M CW
Frequency Switching: ≥ 5 ms to within 0.05% of final frequency
Trigger Response: From GPIB trigger to frequency within 0.1 ppm (above 250 MHz) or 100 Hz (below 250 MHz)

Key Features

Full frequency synthesis with fast CW switching capability
Multiple frequency extension modules targeting 50 GHz to 170 GHz bands
High output power across modulation types
Metrology-grade frequency and level accuracy for precision measurements
Direct GPIB control with specified trigger-to-lock timing

Typical Applications

Millimeter-wave component and subsystem testing
THz signal generation for advanced RF research
Modulation performance verification (pulse, FM, phase)
High-frequency receiver characterization

Compatibility & Integration

The E8257D integrates with VDI SGX frequency extension modules:

E8257DV15:	50–75 GHz, WR15 flange, +20 dBm
E8257DV12:	60–90 GHz, WR12 flange, +15 dBm
E8257DV10:	75–110 GHz, WR10 flange, +14 dBm
E8257DV08:	90–140 GHz, WR8 flange, +9 dBm
E8257DV06:	110–170 GHz, WR6.5 flange, +8 dBm

E8257DV01, V1B, V2B: THz-range modules

E8257DV1B Characteristics / Specifications

PARAMETER	VALUE
Model	E8257DV1B
Instrument Type	Signal generator frequency extension module
Vdi Model	WR1.5SGX
Frequency Range	500 GHz to 750 GHz
Waveguide	WR1.5
Typical Output Power	minus 21 dBm
Standard Rf Input Level	7 to 13 dBm
Standard Rf Input Connector	2.92 mm female
High Frequency Rf Input Level	minus 3 to 3 dBm
High Frequency Rf Input Connector	2.4 mm female
Output Flange	VDI precision UG-387/UM
Am Ttl Input	0 to 5 V up to about 1 kHz BNC female
Ac Supply	100 to 240 VAC 3.5 A
External Supply	N5262VDI-175
Host Generator	E8257D PSG
Manufacturer	Virginia Diodes Inc for Keysight
Related Wr1p	E8257DV01 750 to 1100 GHz at minus 23 dBm
Related Wr3p	E8257DV03
Literature	E8257D configuration guide and 9018-04502 Table 1
Form Factor	waveguide SGX module in transport case
Cables And Supply	included in transport case per 9018-04502
Brand Lineage	Hewlett Packard Agilent Keysight

E8257DV1B Specifications

PARAMETER	VALUE
Applications	WR1.5 THz source extension for spectroscopy and high-frequency research.
Key Features	500 to 750 GHz WR1.5 coverage
TTL AM	External supply N5262VDI-175
Technical Specifications	Model: E8257DV1B

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	E8257DV1B
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Vdi Model	WR1.5SGX
Frequency Range	500 GHz to 750 GHz
Waveguide	WR1.5
Typical Output Power	minus 21 dBm
Standard Rf Input Level	7 to 13 dBm
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External Supply	N5262VDI-175
Host Generator	E8257D PSG
Manufacturer	Virginia Diodes Inc for Keysight
Related Wr1p0	E8257DV01 750 to 1100 GHz at minus 23 dBm
Related Wr3p4	E8257DV03
Literature	E8257D configuration guide and 9018-04502 Table 1
Form Factor	waveguide SGX module in transport case
Cables And Supply	included in transport case per 9018-04502
Brand Lineage	Hewlett Packard Agilent Keysight
Notes	
From Keysight E8257D configuration guide E8257DV1B row and E8257DV01-V15 user's guide Table 1 WR1.5SGX. Minimum power, if needed, is on the VDI SGX specification sheet shipped with the module.	

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.