

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8621B

HP Agilent 8621B RF Plug In Sweep Oscillator The HP/Agilent 8621B is an RF plug-in section for the HP 8620-series sweep oscillator mainframe. OEM 8620 family documentation describes plug-in modules that set the swept frequency band and RF output characteristics of the sweeper system. Swept-frequency stimulus for network analysis, scalar measurements, and general RF/microwave swept-source benches. Instrument Type: RF sweep oscillator plug-in

The HP/Agilent 8621B is an RF plug-in section for the HP 8620-series sweep oscillator mainframe. OEM 8620 family documentation describes plug-in modules that set the swept frequency band and RF output characteristics of the sweeper system. Swept-frequency stimulus for network analysis, scalar measurements, and general RF/microwave swept-source benches. Instrument Type: RF sweep oscillator plug-in Operating Context: microwave sweep oscillator system



MODEL

**Agilent / Keysight
8621B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8621B

LISTING

<https://aumictechlabs.com/products/8621b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8621B is a synthesized sweep signal generator delivering precise RF and microwave signal generation from 45 MHz to 20 GHz with 1 Hz frequency resolution. Purpose-built for integration with Agilent 8510 systems, this instrument combines the accuracy of a synthesized source with sweep oscillator speed, making it suited for legacy test configurations and specialized measurement requirements. Technical Specifications Frequency Coverage: 45

MHz to 20 GHz with 1 Hz resolution. Output Power: Maximum calibrated output reaches +13 dBm across the full range. Minimum settable output is -20 dBm (standard) or -110 dBm with Option 001. Power resolution is 0.02 dB. Spectral Purity: Harmonics suppress to < -50 dBc below 26.5 GHz. Subharmonics remain below -50 dBc between 7 GHz and 20 GHz. Nonharmonically related spurious signals achieve < -60 dBc from 10 MHz to 20 GHz. Output Impedance: 50 ohms nominal, terminated with a precision 3.5-mm male connector on the front panel. Physical Dimensions: 178 mm H × 425 mm W × 648 mm D; 27 kg weight. Environmental Ratings: Operating temperature 0 °C to +45 °C; storage range -40 °C to +70 °C. Humidity tolerance < 95% RH from 0 °C to 45 °C. Maximum operation altitude 2000 m. Key Features No front panel keyboard or display - remote control via rear panel connections 1 Hz frequency resolution for precise spectral placement Rear panel output option available Extended dynamic range to -110 dBm with power option Designed for pollution degree 2 environments Typical Applications Legacy network analyzer systems; component characterization requiring clean spectral output; frequency sweep testing in RF and microwave bands. Compatibility & Integration Optimized for Agilent 8510 measurement systems. Requires external control interface due to absence of local front panel controls.

8621B Characteristics / Specifications

PARAMETER	VALUE
Model	8621B
Instrument Type	RF sweep oscillator plug-in
Mainframe Family	HP 8620 series
Function	swept RF source section
Brand Lineage	HP / Agilent
Form Factor	plug-in module
Operating Context	microwave sweep oscillator system
Frequency Coverage	determined by 8621B plug-in band design
Output	RF swept output via plug-in
Control	mainframe front-panel and remote programming class
Compatibility	HP 8620-series mainframes
Calibration Note	frequency accuracy and power follow plug-in and mainframe calibration
Physical Type	modular RF plug-in
Family	HP 862xx RF plug-ins
Sweep Modes	CW and swept modes via mainframe
Marker Support	mainframe marker/crystal marker class Plug In Band: RF band per 8621B design
Mainframe Compatibility	HP 8620 series
Sweep Capability	yes via mainframe
CW Capability	yes via mainframe
Output Type	swept RF
Remote Programming	via mainframe HPIB class Family: HP 862xx RF plug-ins
Documentation Source	OEM datasheet model row

8621B Specifications

PARAMETER	VALUE
HP Agilent 8621B RF Plug In Sweep Oscillator	Overview
Key Features	Plug-in module for 8620-series mainframe
Technical Specifications	Model: 8621B

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.

characteristics of the sweeper system.

Applications

Swept-frequency stimulus for network analysis, scalar measurements, and general RF/microwave swept-source benches.

Key Features

Plug-in module for 8620-series mainframe

Swept RF stimulus generation

Band coverage set by plug-in design

Works with HP sweeper mainframes

HPIB-era microwave source ecosystem

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	8621B
Instrument Type	RF sweep oscillator plug-in
Mainframe Family	HP 8620 series
Function	swept RF source section
Brand Lineage	HP / Agilent
Form Factor	plug-in module
Operating Context	microwave sweep oscillator system
Frequency Coverage	determined by 8621B plug-in band design
Output	RF swept output via plug-in
Control	mainframe front-panel and remote programming class
Compatibility	HP 8620-series mainframes
Calibration Note	frequency accuracy and power follow plug-in and mainframe calibration
Physical Type	modular RF plug-in
Family	HP 862xx RF plug-ins
Sweep Modes	CW and swept modes via mainframe
Marker Support	mainframe marker/crystal marker classPlug In Band: RF band per 8621B design
Mainframe Compatibility	HP 8620 series
Sweep Capability	yes via mainframe
CW Capability	yes via mainframe

PARAMETER	VALUE
Output Type	swept RF
Remote Programming	via mainframe HP-IB classFamily: HP 862xx RF plug-ins
Documentation Source	OEM datasheet model row

Notes
From HP 8620-series sweep oscillator plug-in documentation for the 8621B. Exact start/stop frequencies and power belong on the specific plug-in data sheet/faceplate.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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