

**Aumictech**

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Data Sheet

August 5, 2026

KEYSIGHT

Keysight (Agilent) 83651B Synthesized Source, 45 MHz to 50 GHz

Keysight (Agilent) 83651B Synthesized Source, 45 MHz to 50 GHz The Keysight/Agilent/HP 83651B is a dedicated synthesized swept source optimized for 8510 vector network analyzer systems. Covers 45 MHz to 50 GHz with 1 Hz resolution. Unlike general-purpose 8360B models, it has no modulation, no front-panel keyboard/display, and typically a rear-panel RF output. Combines synthesizer accuracy with sweeper versatility for system source use; also controllable stand-alone via GPIB. 8510 system source; broadband VNA stimulus to 50 GHz; automated swept CW microwave source. The Keysight/Agilent/HP 83651B is a dedicated synthesized swept source optimized for 8510 vector network analyzer systems. Covers 45 MHz to 50 GHz with 1 Hz resolution. Unlike general-purpose 8360B models, it has no modulation, no front-panel keyboard/display, and typically a rear-panel RF output. Combines synthesizer accuracy with sweeper versatility for system source use; also controllable stand-alone via GPIB. 8510 system source; broadband VNA stimulus to 50 GHz; automated swept CW microwave source.

No photo

MODEL

Keysight 83651B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

83651B

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Frequency: 45 MHz to 50 GHz • Resolution: 1 Hz • Maximum leveled power: +10 dBm (≤ 20 GHz); +4 dBm (20–26.5 GHz); +3 dBm (26.5–40 GHz); 0 dBm (> 40 GHz) • Minimum settable power: –20 dBm • CW accuracy: same as time base • Dedicated 8510 system source (with 83621B 20 GHz / 83631B 26.5 GHz siblings) • No internal modulation; no front panel UI

83651B Characteristics / Specifications

PARAMETER	VALUE
Model	83651B
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Synthesized Swept Source (8510 dedicated)
Family	8360B / 8510 System Sources
Alias	83651B; HP 83651B; Agilent 83651B Frequency / Power 45 MHz–50 GHz; 1 Hz resolution
Max leveled / min settable	see Key Features Operational Notes Prefer Agilent 8360B Series datasheet (5964-6162). Confirm connector and option configuration on unit.
Frequency	45 MHz to 50 GHz
Resolution	1 Hz
Maximum leveled power	+10 dBm (≤ 20 GHz); +4 dBm (20–26.5 GHz); +3 dBm (26.5–40 GHz); 0 dBm (> 40 GHz)
Minimum settable power	–20 dBm
CW accuracy	same as time base

83651B Specifications

PARAMETER	VALUE
Applications	8510 system source; broadband VNA stimulus to 50 GHz; automated swept CW microwave source.
Key Features	- Frequency: 45 MHz to 50 GHz
Technical Specifications	Model: 83651B
Frequency / Power	45 MHz–50 GHz; 1 Hz resolution
Operational Notes	Prefer Agilent 8360B Series datasheet (5964-6162). Confirm connector and option configuration on 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

Specifications

PARAMETER	VALUE
Model	83651B
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Synthesized Swept Source (8510 dedicated)
Family	8360B / 8510 System Sources
Alias	83651B; HP 83651B; Agilent 83651B

Frequency / Power

45 MHz-50 GHz; 1 Hz resolution

Max leveled / min settable: see Key Features

Operational Notes

Prefer Agilent 8360B Series datasheet (5964-6162). Confirm connector and option configuration on unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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.