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Data Sheet

August 8, 2026

AGILENT

HP / Agilent 83631A Synthesized Source, 45 MHz to 26.5 GHz

HP / Agilent 83631A Synthesized Source, 45 MHz to 26.5 GHz The HP / Agilent 83631A is a dedicated synthesized swept source in the 8360A family, optimized for Agilent 8510 vector network analyzer systems. It covers 45 MHz to 26.5 GHz with 1 Hz resolution. Like other 8510 system sources (83621A/83651A siblings), it is designed for system stimulus with synthesizer accuracy and sweeper versatility; typically no front-panel keyboard/display emphasis versus general-purpose 8360A sweepers. 8510 VNA system source to 26.5 GHz; broadband swept CW microwave stimulus; automated component and network characterization. The HP / Agilent 83631A is a dedicated synthesized swept source in the 8360A family, optimized for Agilent 8510 vector network analyzer systems. It covers 45 MHz to 26.5 GHz with 1 Hz resolution. Like other 8510 system sources (83621A/83651A siblings), it is designed for system stimulus with synthesizer accuracy and sweeper versatility; typically no front-panel keyboard/display emphasis versus general-purpose 8360A sweepers. 8510 VNA system source to 26.5 GHz; broadband swept CW microwave stimulus; automated component and network characterization.

No photo

MODEL

Agilent 83631A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

83631A

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 26.5 GHz • Resolution: 1 Hz • CW accuracy: same as time base • Maximum leveled power: +10 dBm (≤ 20 GHz); +4 dBm (20–26.5 GHz) • Minimum settable power: –20 dBm • Swept-mode accuracy: width-dependent (0.1% of sweep to fixed MHz offsets per 8510 system tables)
- Dedicated 8510 system source (83631A 26.5 GHz class) • GPIB control; rear/system RF interconnect class

83631A Characteristics / Specifications

PARAMETER	VALUE
Model	83631A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized Swept Source (8510 dedicated)
Family	8360A / 8510 System Sources
Alias	HP 83631A; Agilent 83631A Frequency / Power 45 MHz–26.5 GHz; 1 Hz; +10/+4 dBm leveled class Operational Notes Prefer Agilent 83631A / 8510 system source specifications. Confirm connector and option set on unit. Distinct from general-purpose 83630A sweeper.
Frequency	45 MHz to 26.5 GHz
Resolution	1 Hz
CW accuracy	same as time base
Maximum leveled power	+10 dBm (≤ 20 GHz); +4 dBm (20–26.5 GHz)
Minimum settable power	–20 dBm
Swept-mode accuracy	width-dependent (0.1% of sweep to fixed MHz offsets per 8510 system tables)

83631A Specifications

PARAMETER	VALUE
Applications	8510 VNA system source to 26.5 GHz; broadband swept CW microwave stimulus; automated component and network characterization.
Key Features	- Frequency: 45 MHz to 26.5 GHz
Technical Specifications	Model: 83631A
Frequency / Power	45 MHz–26.5 GHz; 1 Hz; +10/+4 dBm leveled class

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	83631A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized Swept Source (8510 dedicated)
Family	8360A / 8510 System Sources
Alias	HP 83631A; Agilent 83631A

Frequency / Power

45 MHz–26.5 GHz; 1 Hz; +10/+4 dBm leveled class

Operational Notes

Prefer Agilent 83631A / 8510 system source specifications. Confirm connector and option set on unit. Distinct from general-purpose 83630A sweeper.

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

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

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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.