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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 81672B Tunable Laser Source, Range: 1265-1375 nm

HP / Agilent 81672B High Power Tunable Laser Module O-band The Agilent/HP 81672B is a high-power tunable laser source module for the 8164A/B Lightwave Measurement System, covering the O-band (about 1260/1265 to 1375 nm depending on published revision) with maximum output about +10 dBm. It provides mode-hop-free continuous sweep, built-in real-time wavelength metering, and Panda PMF output for optical amplifier and passive-component test at 1300 nm. O-band optical amplifier stimulus at high power; 1310 nm passive component characterization; swept-wavelength tests in 8164 mainframes. The Agilent/HP 81672B is a high-power tunable laser source module for the 8164A/B Lightwave Measurement System, covering the O-band (about 1260/1265 to 1375 nm depending on published revision) with maximum output about +10 dBm. It provides mode-hop-free continuous sweep, built-in real-time wavelength metering, and Panda PMF output for optical amplifier and passive-component test at 1300 nm. O-band optical amplifier stimulus at high power; 1310 nm passive component characterization; swept-wavelength tests in 8164 mainframes.



MODEL

**HP / Agilent
81672B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

81672B

LISTING

<https://aumictechlabs.com/products/81672b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 81672B is a tunable laser source module delivering precise optical output across the O-band spectrum. Operating from 1265 nm to 1375 nm with ± 10 pm absolute accuracy and 0.1 pm resolution (17.7 MHz at 1300 nm), it enables stable, narrow-linewidth characterization of optical components and systems. The instrument achieves mode-hop-free tuning across its full wavelength range at speeds up to 80 nm/s, with maximum output power of +10 dBm. Polarization-maintaining Panda-type fiber output, a built-in real-time wavelength meter, and continuous sweep capability simplify integration into test benches. Spectral purity reaches 40 dB/nm across 1270–1375 nm with RIN of -145 dB (typical), ensuring minimal noise for demanding measurements. Wavelength stability is maintained for one month within ± 4.4 K after automatic wavelength zeroing.

Technical Specifications

Wavelength Range:	1265 nm to 1375 nm (O-band)
Wavelength Accuracy (Absolute):	± 10 pm
Wavelength Resolution:	0.1 pm (17.7 MHz at 1300 nm)
Maximum Tuning Speed:	80 nm/s
Mode-Hop Free Tuning:	Full wavelength range
Maximum Output Power:	+10 dBm
Signal-to-Spontaneous Emission Ratio:	40 dB/nm (1270–1375 nm)
Relative Intensity Noise:	-145 dB (typical)
Output Fiber:	Panda-type polarization-maintaining
Wavelength Stability:	Valid for one month within ± 4.4 K temperature range after automatic zeroing

Key Features

- Built-in real-time wavelength meter for immediate feedback
- Continuous sweep through full wavelength range enables automated characterization routines
- Fast tuning speed supports dynamic measurement protocols
- High spectral purity minimizes measurement artifacts in sensitive applications

Typical Applications

- Optical amplifier testing and gain characterization
- Passive optical component evaluation
- Integrated photonic device characterization
- Fiber-optic R&D and bench-level testing

Compatibility & Integration

The 81672B module requires an 8164A/B Mainframe for operation.

Features & description

From manufacturer datasheet

Features

- O-band high-power TLS (about +10 dBm)
- Continuous sweep; mode-hop-free full range
- Built-in real-time wavelength meter
- Fast tuning with dynamic specifications (80 nm/s class)
- Panda PMF output; 8164A/B high-performance TLS slot

81672B Characteristics / Specifications

PARAMETER	VALUE
Model	81672B
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	High power tunable laser source module
Wavelength Range Class	1260 nm to 1375 nm (product summaries also list 1265 to 1375 nm)
Maximum Output Power	+10 dBm
Application Band	O-band / 1300 nm high power TLS family
Mainframe Compatibility	8164A/B (high performance TLS slot)
Tuning Continuity	continuous sweep through full wavelength range
Mode Hop Free Tuning	full wavelength range
Built In Wavemeter	yes
Max Tuning Speed Class	80 nm/s with dynamic specifications
Wavelength Accuracy Absolute Class	plus/minus 10 pm class (product summaries)
Fiber Output Class	Panda type polarization maintaining fiber
Related 1400 nm High Power	81482B +8.5 dBm
Related 1550 nm High Power	81682B +8 dBm
Related 1600 nm High Power	81642B +8.5 dBm
Related Low SSEOBand Family Note	low-SSE dual-output models are separate (81480A class)
Laser Safety Class	Class 1M IEC 60825-1 (2001) family list for 816x sources
Connector Interfaces	81000AI FI GI HI KI SI VI WI family
Platform Note	not for 8163 compact TLS slots
Alias	HP 81672B; Agilent 81672B; Keysight 81672B
Config Guide Headline	81672B 1300 nm +10 dBm high power module
Wavelength range	Class: 1260 nm to 1375 nm (product summaries also list 1265 to 1375 nm)

81672B Specifications

PARAMETER	VALUE
Applications	O-band optical amplifier stimulus at high power; 1310 nm passive component characterization; swept-wavelength tests in 8164 mainframes.
Key Features	- O-band high-power TLS (about +10 dBm)
Technical Specifications	Model: 81672B

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 (80 nm/s class)
- Panda PMF output; 8164A/B high-performance TLS slot

Technical Specifications

Technical Specifications

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Model	81672B
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	High power tunable laser source module
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Maximum Output Power	+10 dBm
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Tuning Continuity	continuous sweep through full wavelength range
Mode Hop Free Tuning	full wavelength range
Built In Wavemeter	yes
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Related 1400 nm High Power	81482B +8.5 dBm
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Connector Interfaces	81000AI FI GI HI KI SI VI WI family

Option 071 Class: PMF straight contact interface (family)
Option 072 Class: PMF angled contact interface (family)

Specifications

PARAMETER	VALUE
Platform Note	not for 8163 compact TLS slots
Alias	HP 81672B; Agilent 81672B; Keysight 81672B

PARAMETER

VALUE

Config Guide Headline

81672B 1300 nm +10 dBm high power module

Notes

Identity and +10 dBm assignment from Agilent 816x configuration guide 5988-1571EN; wavelength span and absolute accuracy class from Keysight/Agilent 81672B product summaries. Detailed SSE, SMSR, and power-flatness tables belong in the tunable laser technical specifications (5988-5508EN class) for the installed options.

Ordering Information

OPTION	DESCRIPTION
Option 071	Class: PMF straight contact interface (family)
Option 072	Class: PMF angled contact interface (family)

Laser Safety Class: Class 1M IEC 60825-1 (2001) family list for 816x sources Connector Interfaces: 81000AI FI GI HI KI SI VI WI family Option 071 Class: PMF straight contact interface (family) Option 072 Class: PMF angled contact interface (family) Platform Note: not for 8163 compact TLS slots Alias: HP 81672B; Agilent 81672B; Keysight 81672B Config Guide Headline: 81672B 1300 nm +10 dBm high power module No

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>

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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.