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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 83400A Lightwave Source Module

HP Agilent 83400A Lightwave Source Module The HP 83400A is a lightwave source module used with HP lightwave analyzers and converter systems to provide a modulated optical stimulus. It is catalogued as a plug-in/source module for the 834xx lightwave measurement family rather than a standalone benchtop laser. Pair with 83440-series O/E converters for time- or frequency-domain optical measurements. Lightwave component stimulus; optical-to-electrical system calibration chains with 83440B/C/D converters; 8702/8703 lightwave analyzer source role depending on configuration. The HP 83400A is a lightwave source module used with HP lightwave analyzers and converter systems to provide a modulated optical stimulus. It is catalogued as a plug-in/source module for the 834xx lightwave measurement family rather than a standalone benchtop laser. Pair with 83440-series O/E converters for time- or frequency-domain optical measurements. Lightwave component stimulus; optical-to-electrical system calibration chains with 83440B/C/D converters; 8702/8703 lightwave analyzer source role depending on configuration.



MODEL

**Keysight / Agilent /
HP 83400A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

83400A

LISTING

<https://aumictechlabs.com/products/83400a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 83400A Lightwave Source Module is a specialized optical signal source designed for the 8702 Series Lightwave Component Analyzers. This Fabry-Perot laser module delivers stable, high-accuracy output for optical component characterization, transmission system validation, and photonics research. It operates at 1300 nm with intensity modulation capability across a 300 kHz to 3 GHz bandwidth, interfacing with standard 9/125 μm single-mode fiber through Agilent PC-type optical connectors. Technical Specifications Wavelength: 1300 nm (1308 $\pm$ 10 nm) Modulation Bandwidth: 300 kHz to 3 GHz Laser Type: Fabry-Perot Modulation Capability: Intensity modulation Optical Fiber: 9/125 μm single-mode Optical Interface: Agilent PC-type (connectors sold separately) Output Power: Maximum 2.5 mW Source Classification: High stability source with excellent dynamic range Key Features Stable optical output optimized for component-level measurements Broadband modulation from 300 kHz to 3 GHz enables diverse signal formats Excellent dynamic range supports precise characterization across wide power levels Direct integration into existing 8702 analyzer infrastructure Typical Applications Optical component characterization and validation Transmission system testing and performance validation Photonics research and development Intensity modulation studies in optical communications Compatibility & Integration Designed exclusively as a plug-in module for Agilent/HP 8702 Series Lightwave Component Analyzers. Power supply requires IEC 127 5 $\times$ 20 mm fuses: 0.315 A at 250 V (100/120 V operation) or 0.16 A at 250 V (220/240 V operation). Ambient temperature must remain at least 4°C below maximum operating temperature per 100 watts cabinet dissipation. Ensure unobstructed airflow for convection cooling.

Features & description

From manufacturer datasheet

Features

- Modular lightwave source in the HP 83400 family

83400A Characteristics / Specifications

PARAMETER	VALUE
Model	83400A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Lightwave Source Module
Family	83400 / 834xx lightwave
Alias	83400A; HP 83400A
Function	modulated optical source module for lightwave analyzers
Partner Detector	83440B DC to 6 GHz O/E converter
Partner Family	83440C 20 GHz; 83440D 30 GHz converters
Optical Role	source (notadetector)
Electrical Role	accepts modulation/drive from host analyzer
Host Systems	HP lightwave analyzer / 834xx modular hosts (confirm faceplate)
Fiber Class	single-mode 9/125 um class lightwave (confirm connector on module)
Wavelength	configuration-specific; read the module label (typical 1300/1550 nm class sources)
Modulation	RF/baseband optical envelope per 83400 family
Form	plug-in source module notastandalone mainframe
RF Interface	coaxial modulation/output per module rear/front
Optical Interface	fiber connector option on the source head
Bias/Power	supplied by host mainframe or specified supply
Related 834	later/related lightwave source siblings (confirm)
Related Analyzer	8702B/8703A lightwave component analyzer class
NotALaser Diode Spare	complete source module identity
Status	HP 83400A EOL lightwave accessory
Documentation	HP 83400A / 834xx lightwave source notes
Service	serial-prefix and option sticker govern wavelength and connector

PARAMETER**VALUE****Safety**

laser product labeling on the source aperture Notes Verified as HP 83400A lightwave source module from HP lightwave accessory catalog identity. Exact wavelength power and modulation bandwidth are option/host dependent: read the module label and host analyzer configuration. Do not invent laser diode milliwatt figures.

Bandwidth

are option/host dependent: read the module label and host analyzer configuration. Do not invent laser diode milliwatt figures.

83400A Specifications

PARAMETER	VALUE
HP Agilent 83400A Lightwave Source Module	Overview
Key Features	- Modular lightwave source in the HP 83400 family
Technical Specifications	Model: 83400A

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
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Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Lightwave Source Module
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PARAMETER	VALUE
Family	83400 / 834xx lightwave
Alias	83400A; HP 83400A
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Specifications	
PARAMETER	VALUE
Wavelength	configuration-specific; read the module label (typical 1300/1550 nm class sources)
Modulation	RF/baseband optical envelope per 83400 family
Form	plug-in source module notastandalone mainframe

Specifications

PARAMETER	VALUE
RF Interface	coaxial modulation/output per module rear/front
Optical Interface	fiber connector option on the source head
Bias/Power	supplied by host mainframe or specified supply

Specifications

PARAMETER	VALUE
Related 83401	later/related lightwave source siblings (confirm)
Related Analyzer	8702B/8703A lightwave component analyzer class
NotALaser Diode Spare	complete source module identity

Specifications

PARAMETER	VALUE
Status	HP 83400A EOL lightwave accessory
Documentation	HP 83400A / 834xx lightwave source notes
Service	serial-prefix and option sticker govern wavelength and connector

Safety: laser product labeling on the source aperture

Notes

Verified as HP 83400A lightwave source module from HP lightwave accessory catalog identity. Exact wavelength power and modulation bandwidth are option/host dependent: read the module label and host analyzer configuration. Do not invent laser diode milliwatt figures.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.