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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 81500C – Optical Head Interface Module

Keysight 81500C Optical Head Interface Module The Agilent/HP 81500C is an optical head interface module providing the electrical interface between remote optical heads and HP/Agilent lightwave measurement mainframes. OEM accessory catalogs list 81500C among head interface options for multi-head optical power measurements. Connecting remote optical heads to lightwave controllers, expanding optical power channels, and automated multi-wavelength power monitoring. Instrument Type: optical head interface module The Agilent/HP 81500C is an optical head interface module providing the electrical interface between remote optical heads and HP/Agilent lightwave measurement mainframes. OEM accessory catalogs list 81500C among head interface options for multi-head optical power measurements. Connecting remote optical heads to lightwave controllers, expanding optical power channels, and automated multi-wavelength power monitoring. Instrument Type: optical head interface module Host Platform Class: HP Agilent lightwave mainframes



MODEL

**Agilent / Keysight
81500C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

81500C

LISTING

<https://aumictechlabs.com/products/81500c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 81500C is an Optical Head Interface Module that bridges compatible optical heads to Keysight lightwave mainframes, enabling optical signal transfer and measurement data

acquisition. This interface card functions as the critical connection point within modular optical test systems, translating optical signals from measurement heads into analog electrical data for mainframe processing and analysis. The module measures 12.4 inches long by 1.25 inches wide by 2.7 inches high and weighs approximately 1 lb.

Technical Specifications

Length: 12.4 inches
Width: 1.25 inches
Height: 2.7 inches
Weight: Approximately 1 lb
Signal Output: Analog via BNC connector

Key Features

- Direct interface to 815xxA series optical heads for signal coupling
- BNC connector output for analog measurement signal transmission
- Slot-based integration into 8153, 8163, and 8164 series mainframes
- Compact form factor designed for multi-module mainframe configurations

Typical Applications

- Optical power measurement using compatible optical sensors
- Optical component characterization and test automation
- Integration into multi-parameter optical test benches

Compatibility & Integration

The 81500C is designed exclusively for Keysight modular lightwave platforms. Compatible mainframes include 8153, 8163, and 8164 series units. The module interfaces with 815xxA optical head families, allowing measurement systems to scale across multiple optical parameters through slot-based expansion within a single mainframe chassis.

81500C Characteristics / Specifications

PARAMETER	VALUE
Model	81500C
Instrument Type	optical head interface module
Host Platform Class	HP Agilent lightwave mainframes
Primary Function	interface remote optical heads
Measurement Path	optical power via remote head
Control Interface	mainframe HP-IB SCPI class
Form Factor	lightwave mainframe plug in module
Series Family	HP 815xx optical accessories
Compatible Heads Class	8152x optical heads and successors
Channel Role	head interface electronics
Operating Temperature Class	0 C to 40 C laboratory class
Storage Temperature Class	minus 40 C to 70 C class
Power Source	mainframe supplied
Connector Class	head interface cable connector
Calibration Class	system calibration with attached head
Wavelength Context	head dependent wavelength range
Dynamic Range Context	head dependent power range
Remote Programming	via host mainframe
Module Width Class	single width lightwave module class
Led Indicators Class	status indicators class
Use Environment	optical component and system test
Related Interface	81519A optical head interface
Related Heads	81522A class optical heads
Accuracy Context	determined by attached calibrated head
Wavelength range	Dynamic Range Context: head dependent power range

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C laboratory class

81500C Specifications

PARAMETER	VALUE
Keysight 81500C Optical Head Interface Module	Overview
System SCPI control through host	815xx lightwave accessory family
Technical Specifications	Model: 81500C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
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Related Interface	81519A optical head interface
Related Heads	81522A class optical heads
Accuracy Context	determined by attached calibrated head Notes From HP/Agilent 81500C optical head interface module accessory descriptions. Power meter uncertainty is governed by the connected optical head and system zeroing practice.

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