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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight 81519A – Optical Head Interface Module

Keysight 81519A Optical Head Interface Module The Agilent/HP 81519A is an optical head interface module for HP/Agilent lightwave mainframes that connects remote optical heads to the measurement system. OEM 815xx lightwave accessory tables list interface modules for power heads and sensor heads used with 8153/8163-class controllers. Remote optical power head interfacing, multi-head lightwave benches, and automated optical power measurements through mainframe control. Optical head interface for lightwave mainframes The Agilent/HP 81519A is an optical head interface module for HP/Agilent lightwave mainframes that connects remote optical heads to the measurement system. OEM 815xx lightwave accessory tables list interface modules for power heads and sensor heads used with 8153/8163-class controllers. Remote optical power head interfacing, multi-head lightwave benches, and automated optical power measurements through mainframe control. Optical head interface for lightwave mainframes Instrument Type: optical head interface module



|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| MODEL                        | CALIBRATION                                                                                             |
| Agilent / Keysight<br>81519A | Available on<br>request                                                                                 |
| CONDITION                    | STATUS                                                                                                  |
| Used                         | In stock                                                                                                |
| RFQ / SKU                    | LISTING                                                                                                 |
| 81519A                       | <a href="https://aumictechlabs.com/products/81519a-2/">https://aumictechlabs.com/products/81519a-2/</a> |

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## This unit

The Agilent/Keysight 81519A is an optical head interface module that converts optical signals into electrical equivalents for direct integration with conventional electronic test equipment. Operating

across the visible and near-infrared spectrum, this linear transducer is a front-end receiver for fiber optic module and system characterization, enabling measurement and analysis of optical signals through standard electrical test interfaces.

**Technical Specifications**  
Bandwidth: DC to 400 MHz  
Wavelength Range: 550 nm to 950 nm  
Connector Uncertainty:  $\pm 0.1$  dB

**Key Features**  
Linear optical-to-electrical transducer architecture  
DC-coupled operation enables full bandwidth utilization from direct current through 400 MHz  
Broad wavelength coverage spanning visible through near-infrared regions  
Precision connector interface with specified uncertainty  
performance  
Electrical output signal proportional to incident optical power

**Typical Applications**  
Fiber optic module characterization and validation  
Optical system performance measurement  
Optical signal detection and monitoring  
Front-end conversion for legacy or general-purpose electronic test systems

**Compatibility & Integration**  
The 81519A integrates within the Keysight 816xB family of optical mainframes and modules, enabling modular optical measurement system configuration. Direct compatibility with conventional electronic test equipment allows straightforward signal routing and analysis using standard instrumentation.

# 81519A Characteristics / Specifications

| PARAMETER                   | VALUE                                             |
|-----------------------------|---------------------------------------------------|
| Model                       | 81519A                                            |
| Instrument Type             | optical head interface module                     |
| Host Platform Class         | HP Agilent 8153 8163 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 and related optical heads                   |
| 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           | 81500C 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 |

## General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature         | Class: minus 40 C to 70 C class                                                                                                                                                                                                       |
| Operating temperature       | Class: 0 C to 40 C laboratory class                                                                                                                                                                                                   |
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| 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           | 81500C optical head interface                                                                                                                                                                                                         |
| Related Heads               | 81522A class optical heads                                                                                                                                                                                                            |
| Accuracy Context            | determined by attached calibrated head Notes From HP/Agilent 81519A optical head interface module accessory descriptions for 815x/816x lightwave systems. Numeric power accuracy is defined by the attached optical head calibration. |

# 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                                     |
| Model                       | 81519A                                    |
| Instrument Type             | optical head interface module             |
| Host Platform Class         | HP Agilent 8153 8163 lightwave mainframes |
| Primary Function            | interface remote optical heads            |
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| Module Width Class          | single width lightwave module class       |
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| Related Heads               | 81522A class optical heads                |
| Accuracy Context            | determined by attached calibrated head    |

#### Notes

From HP/Agilent 81519A optical head interface module accessory descriptions for 815x/816x lightwave systems.  
Numeric power accuracy is defined by the attached optical head calibration.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.