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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) E4310A Optical Time Domain Reflectometer

Keysight (Agilent) E4310A Optical Time Domain Reflectometer The Keysight/Agilent E4310A is an Optical Time Domain Reflectometer (OTDR) used to characterize optical fiber spans by launching pulses and analyzing backscattered/reflected light versus distance. Public standalone datasheets for this model are sparse; confirm wavelength options, dynamic range, event dead zone, and connector types from the unit faceplate, options list, and Keysight/Agilent E4310A documentation. Fiber installation and maintenance; splice/connector event location; optical link characterization. The Keysight/Agilent E4310A is an Optical Time Domain Reflectometer (OTDR) used to characterize optical fiber spans by launching pulses and analyzing backscattered/reflected light versus distance. Public standalone datasheets for this model are sparse; confirm wavelength options, dynamic range, event dead zone, and connector types from the unit faceplate, options list, and Keysight/Agilent E4310A documentation. Fiber installation and maintenance; splice/connector event location; optical link characterization.



MODEL

**Keysight / Agilent
E4310A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E4310A

LISTING

<https://aumictechlabs.com/products/e4310a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E4310A is an Optical Time Domain Reflectometer (OTDR) mainframe designed for testing and troubleshooting optical fiber networks. It analyzes backscattered light to detect faults, measure fiber length, and assess signal loss within optical fiber infrastructure. The mainframe accepts user-exchangeable OTDR plug-in modules that determine specific optical testing capabilities and wavelength performance. Optional interfaces include HP-IB (Option 004) and LAN (Option 005) connectivity. The E4310A has been classified as obsolete by the manufacturer.

Technical Specifications
Product Type: Optical Time Domain Reflectometer (OTDR) Mainframe
Manufacturer: Keysight Technologies (formerly Agilent) Model: E4310A (also designated 8147)
Status: Obsolete
Weight: Approximately 9 kg (20 lbs)
Latest Firmware: Revision 4.3 (8147 Series)

Key Features
Modular architecture accommodates plug-in OTDR modules for flexible wavelength and performance configurations
Multimode testing modules available for 850 nm and 1300 nm wavelengths
Ultra 1625 nm modules available for WDM link testing
Integrated optical power meter sub-module with measurement range from +10 dBm to -70 dBm
Optional HP-IB and LAN interfaces for remote control and data acquisition
Firmware upgradeable to Revision 4.3; firmware version accessible via Config softkey

Typical Applications
Optical fiber fault detection and localization
Fiber length measurement and characterization
Signal loss assessment in single-mode and multimode fiber networks
WDM link testing and analysis
1625 nm fiber testing and validation

Compatibility & Integration
The E4310A requires user-exchangeable connector interfaces such as the HP 81000×1 to operate. Compatible plug-in modules include the HP E6005A (multimode), HP E6010B, HP E6012A, HP E4321A, and HP E6060A (1625 nm ultra high-performance). Optional remote interfaces enable integration into automated test environments and network management systems.

Features & description

From manufacturer datasheet

Features

- Model: E4310A • Instrument type: Optical Time Domain Reflectometer (OTDR) • Measures backscatter/reflection vs distance on optical fiber • Wavelength, dynamic range, pulse widths, and dead zones: per E4310A options/documentation

E4310A Characteristics / Specifications

PARAMETER	VALUE
Model	E4310A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Optical Time Domain Reflectometer (OTDR)
Alias	E4310A; Agilent E4310A Optical Performance Wavelength(s), dynamic range, attenuation dead zone, event dead zone, distance range, and sampling resolution: per Keysight/Agilent E4310A option configuration and user documentation. Do not invent unverified OTDR numeric tables.
Wavelength, dynamic range, pulse widths, and dead zones	per E4310A options/documentation
Attenuation	dead zone, event dead zone, distance range, and sampling resolution: per Keysight/Agilent E4310A option configuration and user documentation. Do not invent unverified OTDR numeric tables.

E4310A Specifications

PARAMETER	VALUE
Key Features	- Model: E4310A
Technical Specifications	Model: E4310A
Operational Notes	Prefer original Agilent E4310A user/service literature for warranted performance by option code.

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	E4310A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Optical Time Domain Reflectometer
Alias	E4310A; Agilent E4310A

Optical Performance

Wavelength(s), dynamic range, attenuation dead zone, event dead zone, distance range, and sampling resolution: per Keysight/Agilent E4310A option configuration and user documentation. Do not invent unverified OTDR numeric tables.

Operational Notes

Prefer original Agilent E4310A user/service literature for warranted performance by option code.

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.