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Data Sheet

August 1, 2026

HP

HP Mini OTDR Mainframe E6000B For Parts with no Accessories As Is

The HP / Agilent E6000B is a portable Mini-OTDR mainframe for installing, commissioning, and maintaining fiber links. It locates and characterizes reflective and non-reflective events using up to 16,000 data points with minimum sample spacing of about 8 cm. Optical performance depends on plug-in modules (single-mode and multimode) such as E6003B, E6005A, and E6008B. Display options include color VGA LCD (Option 003) or black-and-white VGA LCD (Option 006). This datasheet describes the mainframe; modules and accessories are not included unless present on the unit. Fiber installation and commissioning, fault location and break finding, attenuation and reflectance measurement, multi-fiber test campaigns, and field maintenance of single-mode and multimode networks when fitted with appropriate modules.



MODEL

HP E6000B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

E6000B

LISTING

<https://aumictechlabs.com/products/e6000b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP E6000B Mini OTDR Mainframe is a modular optical test instrument serving as the core platform for plug-in OTDR modules and sub-modules. This compact mainframe enables fault location, event characterization, and comprehensive analysis of fiber optic networks across single-mode and multimode installations. Engineered for field and lab deployment, the E6000B

delivers high-resolution trace data with configurable wavelengths and dynamic range capabilities up to 45 dB for single-mode measurements. The platform accepts a broad library of compatible modules, expanding functionality from basic OTDR testing to optical power measurement and visual fault detection.

Technical Specifications

Physical & Power Dimensions: 194 mm (H) × 290 mm (W) × 75 mm (D) Net weight: Less than 2.9 kg including battery pack and OTDR module

Power: NiMH battery pack; AC/DC adapter operation supported

Operating temperature: 5°C to 45°C; 35% to 80% relative humidity at 40°C

Humidity tolerance: 95% non-condensing

Measurement Resolution & Range

Data points: Up to 16,000 (minimum sample spacing 8 cm) or up to 64,000 (minimum sample spacing 4 cm)

Dynamic range: Up to 45 dB (single-mode fiber)

Attenuation dead zone: 20 m

Event dead zone: Less than 3 m (multimode modules)

Wavelength Support

Multimode: 850 nm ± 3 nm, 1300 nm ± 3 nm

Single-mode: 1310 nm ± 3 nm, 1550 nm ± 3 nm, 1625 nm

Fiber Compatibility

Single-mode and multimode fibers supported

Graded index up to 50 µm; 62.5 µm fiber with 2% additional uncertainty

Key Features

Powerful trace analysis algorithm for event location and characterization

Modular architecture accepts industry-standard plug-in modules

Compact form factor for portable field operations

Dual power options: battery for remote deployment, AC/DC adapter for continuous lab use

Typical Applications

Telecommunications network troubleshooting and maintenance

Data center optical link commissioning and diagnostics

Enterprise network fault location and cable characterization

Field installation verification of fiber optic systems

Compatibility & Integration

The E6000B accepts a wide range of OTDR and sub-modules:

OTDR Modules (examples): E4311A, E4312A, E4313A, E4314A, E4315A, E4316A, E6001A, E6003A/B, E6004A, E6005A, E6008B, E6010B, E6012A

Sub-Modules: Optical Power Meter (measurement range +10 dBm to -70 dBm, 5% accuracy, 0.01 dB resolution); Visual Fault Finder (e.g., E6007A)

Features & description

From manufacturer datasheet

Features

- Portable Mini-OTDR mainframe with simple one-button / automatic measurement modes
- Up to 16,000 data points; minimum sample spacing about 8 cm
- Automatic event location, end/break finding, fiber attenuation, event loss, reflectance, and cumulative loss
- Interchangeable OTDR modules and sub-modules (power meter, visual fault finder)
- Multi-fiber and template test modes; about 15 second power-up
- AC adapter or DC operation; low typical power consumption

E6000B Characteristics / Specifications

PARAMETER	VALUE
Model	E6000B
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Mini-OTDR mainframe
Data Points	Up to 16,000
Minimum Sample Spacing	About 8 cm
Display Options	Option 003 color VGA LCD; Option 006 B/W VGA LCD
Dimensions	About 194 mmHx 290 mmWx 75 mm D (7.7 × 11.4 × 3.0 in)
Weight	Less than about 2.9 kg class (mainframe)
AC Power	100 to 240 V +/-10%, 50/60 Hz; max about 30 VA fully optioned
DC Power	16 to 24 V; max about 30 W during quick charge; typical consumption below 8 W Example Compatible Modules (not included with bare mainframe)
E6001A / E6002A	1310 nm SM
E6003A / E6003B / E6004A	1310/1550 nm SM
E6005A / E6009A	850/1300 nm MM
E6008B	1310/1550 nm ultra high performance SM (about 45/43 dB class) E6006A optical power meter sub-module; E6007A visual fault finder
E6010A / E6012A	1625 nm and dual-band UHSM modules
Software	E6090A / E6091A OTDR Toolkit Operational Notes Without an OTDR module, the mainframe cannot perform optical reflectometry. Confirm installed options and modules on the unit label. Use correct connector interfaces (81000 series). Sales conditions such as "for parts / as is / no accessories" are omitted from technical content.
Attenuation	and reflectance measurement, multi-fiber test campaigns, and field maintenance of single-mode and multimode networks when fitted with appropriate modules.

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.

performance depends on plug-in modules (single-mode and multimode) such as E6003B, E6005A, and E6008B. Display options include color VGA LCD (Option 003) or black-and-white VGA LCD (Option 006). This datasheet describes the mainframe; modules and accessories are not included unless present on the unit.

Applications
Fiber installation and commissioning, fault location and break finding, attenuation and reflectance measurement, multi-fiber test campaigns, and field maintenance of single-mode and multimode networks when fitted with appropriate modules.

- Key Features
- Portable Mini-OTDR mainframe with simple one-button / automatic measurement modes
 - Up to 16,000 data points; minimum sample spacing about 8 cm
 - Automatic event location, end/break finding, fiber attenuation, event loss, reflectance, and cumulative loss
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Example Compatible Modules (not included with bare mainframe)

Specifications

PARAMETER	VALUE
E6001A / E6002A	1310 nm SM
E6003A / E6003B / E6004A	1310/1550 nm SM
E6005A / E6009A	850/1300 nm MM

PARAMETER	VALUE
E6008B	1310/1550 nm ultra high performance SM (about 45/43 dB class)
E6006A optical power meter sub-module; E6007A visual fault finder E6010A / E6012A: 1625 nm and dual-band UHSM modules Software: E6090A / E6091A OTDR Toolkit Operational Notes Without an OTDR module, the mainframe cannot perform optical reflectometry. Confirm installed options and modules on the unit label. Use correct connector interfaces (81000 series). Sales conditions such as "for parts / as is / no accessories" are omitted from technical content.	

Ordering Information

OPTION	DESCRIPTION
Option 003	color VGA LCD; Option 006 B/W VGA LCD

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.