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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E6000C

The Keysight E6000C is a portable Mini-OTDR mainframe for fiber installation and maintenance, accepting plug-in OTDR modules with automatic event analysis, multi-fiber test, and Bellcore/Telcordia trace formats per the Agilent E6000C technical data sheet. Outside-plant and premises fiber characterization, break location, loss and reflectance testing, and OTDR acceptance documentation. Bellcore Telcordia compliant trace formats Refractive Index Range: 1.00000 to 2.00000 Battery Operation Typical: 8 hours continuous with Option 006 NiMH Module Example E6003B Dynamic Range 20 Us: 40 dB at 1310 nm and 39 dB at 1550 nm typical class per module table Recommended Module Recalibration: 2 years Numeric rows from Agilent E6000C Mini-OTDR Technical Data Sheet. Module dynamic-range examples are from the OEM module specification tables at 22 C plus or minus 3 C.



MODEL

**Agilent / Keysight
E6000C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E6000C

LISTING

<https://aumictechlabs.com/products/e6000c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E6000C is a compact Optical Time Domain Reflectometer (OTDR) engineered for installation, commissioning, and fault location in fiber optic networks. Its award-winning user interface and high measurement performance enable rapid characterization of multiple fiber links and rapid isolation of faults during maintenance operations. The instrument detects both reflective and non-reflective events with configurable thresholds, supports fiber

types from single-mode through 50 μm graded index multimode, and operates across five calibrated wavelengths from 850 nm to 1625 nm. Measuring up to 100 events per trace, the E6000C delivers reflectance measurements at ± 2.0 dB typical accuracy.

Technical Specifications

Optical Performance Calibrated wavelengths: 850 nm, 1300 nm, 1310 nm, 1550 nm, 1625 nm
Pulsewidth options: 5 ns to 100 ns (850 nm); 5 ns to 10 μs (1300 nm) via E6005A module
Reflectance accuracy: ± 2.0 dB typical Dual wavelength measurement: available at +10 to -45 dBm peak amplitude Modulation frequency recognition (270 Hz, 1 kHz, 2 kHz) at +10 to -45 dBm
Wavelength encoding recognition (350 Hz, 550 Hz) at +10 to -45 dBm Event Detection Maximum events: 100 per trace Non-reflective threshold: 0.0 to 5.0 dB in 0.01 dB steps Reflective threshold: -14.0 to -65.0 dB in 0.1 dB steps Fiber break threshold: 0.1 to 10 dB in 0.1 dB steps Fiber end threshold: 0.1 to 20 dB in 0.1 dB steps Fiber Compatibility Single-mode to 50 μm graded index multimode; add 2% uncertainty for 62.5 μm MMF

Key Features Dimensions: 194 mm H $\times$ 290 mm W $\times$ 75 mm D; weight < 2.9 kg with battery and OTDR module Laser safety: Class 1M per IEC 60825-1 (2001) Storage: 3.5" floppy disk (720/1440 kByte) and PCMCIA Type II card slot ISO 9001 manufacturing standard User-exchangeable optical connector

Built-in Applications Automatic Multi Fiber Test Pass/Fail Test Fiber Break Location Compatibility & Integration Optional Visual Fault Finder Sub-Module E6007A (Class 2 per IEC 60825-1) enables visual inspection. Alternative OTDR modules (E6009A) support 5 ns to 100 ns (850 nm) and 5 ns to 1 μs (1300 nm) pulsewidths.

Note: This model has been discontinued; support and spare parts availability is limited.

E6000C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Mini-OTDR mainframe
Start Distance Range	0 km to 400 km
Span Range	0.1 km to 400 km
Distance Readout Resolution	0.1 m
Minimum Sample Spacing	4 cm
Refractive Index Range	1.00000 to 2.00000
Measurement Points Maximum	64000
Vertical Scale Range	0.1 to 10.0 dB per division
Vertical Readout Resolution	0.001 dB
Reflectance Range	minus 14 dB to minus 60 dB
Backscatter Coefficient Range	10 to 70 dB at 1 us
Pulsewidths All Modules	10 ns 30 ns 100 ns 300 ns 1 us 3 us 10 us
Maximum Events Per Trace	100
Nonreflective Event Threshold Range	0.0 to 5.0 dB in 0.01 dB steps
Reflective Event Threshold Range	minus 14.0 to minus 65.0 dB in 0.1 dB steps
Fiber Break Threshold Range	0.1 to 10 dB in 0.1 dB steps
Fiber End Threshold Range	0.1 to 20 dB in 0.1 dB steps
Display Size	18.3 cm 7.2 inch VGA LCD
Display Resolution	640 × 480 points
Measurement Update Rate Refresh	2 measurements per second
Rs232 Maximum Rate	115200 bps
Internal Memory	SRAM up to 2 MB
Pcmcia Memory Card	Type II up to 440 MB
Dimensions HxWxD	194 mm x 290 mm x 75 mm
Weight Typical With Battery And Module	less than 2.9 kg

PARAMETER	VALUE
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to plus 60 C
Humidity Operating	95 percent RH from 0 C to 40 C
Ac Input	100 to 240 Vrms plus or minus 10 percent 50 to 60 Hz
Dc Input	16 to 24 V
Battery Operation Typical	8 hours continuous with Option 006 NiMH
Module Example E6003B Dynamic Range 20 Us	40 dB at 1310 nm and 39 dB at 1550 nm typical class per module table
Event Deadzone Typical Modules	3 m
Recommended Module Recalibration	2 years
Humidity	Operating: 95 percent RH from 0 C to 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 60 C
Operating temperature	0 C to 50 C
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Humidity Operating	95 percent RH from 0 C to 40 C
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Recommended Module Recalibration	2 years Notes Numeric rows from Agilent E6000C Mini-OTDR Technical Data Sheet. Module dynamic-range examples are from the OEM module specification tables at 22 C plus or minus 3 C.

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.

technical data sheet.	
Applications	
Outside-plant and premises fiber characterization, break location, loss and reflectance testing, and OTDR acceptance documentation.	
Key Features	
Modular Mini-OTDR mainframe	
Automatic multi fiber test and pass fail	
Fiber break locator mode	
Bellcore Telcordia compliant trace formats	
PCMCIA and floppy storage options	
Technical Specifications	
Technical Specifications	
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Notes

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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.