

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E6000C

The Keysight (formerly Agilent / HP) E6000C is a high-performance Mini-OTDR mainframe designed for installing, commissioning, and maintaining fiber optic networks. It features a bright color TFT display, rugged construction, and modular expandability, supporting a wide range of single-mode and multimode OTDR modules, power meters, visual fault locators, and light sources.

SPECIFICATIONS

General

Interfaces	RS-232C (serial up to 115.2 kbps), Centronics (parallel printer port), Mini-DIN (external keyboard), PCMCIA Type II slot
Display	7.2-inch active matrix color TFT LCD (640 × 480 VGA)
Real-Time Clock	Built-in, provides time and date stamp for traces
User Interface Languages	English, French, German, Spanish, Italian, Portuguese, Japanese, Chinese, Korean

Physical

Power Supply	100 to 240 V AC (±10%), 50 to 60 Hz input via external AC adapter; 18 V DC, 2.0 A output
Operating Temperature	0 to +50 °C
Dimensions (W×H×D)	290 × 194 × 75 mm
Weight	2.8 kg (including battery pack and optical module)

Optical Specifications

Wavelengths	Module dependent (e.g., 1310 nm, 1550 nm, 1625 nm with E6000 series optical modules)
Fiber Type	Single-mode and Multimode (module dependent)
Dynamic Range	Up to 45 dB (module dependent)
Event Dead Zone	Minimum 3 m (module dependent)
Attenuation Dead Zone	Minimum 10 m (module dependent)
Pulse Widths	10 ns to 20 μs (module dependent)
Distance Ranges	Up to 400 km (module dependent)
Distance Accuracy	±(1 m + 10 ⁻⁵ × distance + sampling resolution)
Loss Resolution	0.001 dB
Group Refractive Index Range	1.00000 to 2.00000

Integrated Optical Options

Visual Fault Finder Option	Yes, supports optional E6007A Visual Fault Finder sub-module
Optical Power Meter Option	Yes, supports optional E6006A Optical Power Meter sub-module
Stabilized Light Source Option	Yes, built-in optical module capability (CW or modulated)

Test Management and Analysis

Measurement Modes	Automatic, Manual, Real-time
Trace File Format	Bellcore GR-196 (.SOR)
Internal Memory Capacity	Up to 180 traces (Bellcore format)
External Storage Support	PCMCIA Flash/SRAM cards, external E6005A floppy disk drive option
Automated Pass/Fail Analysis	Yes, customizable thresholds for splice loss, connector loss, and reflectance

Connectivity and Interfaces

Serial Interface Connector	9-pin D-Sub (male), RS-232C
Parallel Interface Connector	25-pin D-Sub (female), Centronics compatible
Keyboard Connector	Mini-DIN
PCMCIA Slots	1x Type I/II card slot

Power and Battery

Battery Type	Rechargeable NiMH battery pack (9.6 V, 3.8 Ah)
Battery Operating Time	Up to 8 hours (typical power management enabled)
Battery Charging Time	Less than 3 hours with mainframe switched off
Power Management	Auto-backlight off, auto-off selectable

Physical Characteristics

Weight (Mainframe Only)	1.8 kg (without battery or optical module)
Enclosure Material	Rugged industrial plastic with shock-absorbing protective rubber bumpers

Environmental and Compliance

Storage Temperature	-20 to +60 °C
Relative Humidity Range	Up to 95% R.H. (non-condensing, at 40 °C)
Shock and Vibration Compliance	Mil-T-28800 Class 5 compliant
Laser Safety Classification	Class 1 / Class 2 (depending on optical options and module installed)

Compatibility

Supported Modules	Agilent/Keysight E6000 series OTDR modules (e.g., E6001A, E6003A/B, E6005A, E6008B, E6009A)
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Performance

Trace Data Points	Up to 16,000
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Connectivity

External Keyboard Support	Standard mini-DIN PS/2 style keyboard
Direct Printing Support	HP DeskJet, LaserJet, ThinkJet, and EPSON compatible printers via parallel interface

Configurations & Options

Built-in Instruments Options	Option 020 (Optical Power Meter), Option 021 (Visual Fault Finder), Option 022 (Power Meter & VFL)
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Inputs & Outputs

External Monitor Output	15-pin D-sub (VGA), standard on Option 003 (Color) mainframe
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Software & Control

Companion Software	Agilent OTDR Toolkit II for PC-based trace analysis and emulation
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Optional Power Meter Specifications

Optional Power Meter Wavelength Range	800 nm to 1650 nm
Optional Power Meter Measurement Range	+10 dBm to -70 dBm

Optional Visual Fault Finder Specifications

Optional VFL Wavelength	635 nm ± 10 nm
Optional VFL Output Power	1 mW max. (Class II)

Hardware Features

Module Slot	Single slot for E60xxA/B/C OTDR modules
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TECHNOLOGY

Fiber Optic Testing

APPLICATIONS

Optical Time Domain Reflectometry (OTDR)

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