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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1725C Time Interval Analyzer

The HP/Agilent E1725C is a time-domain reflectometry (TDR) instrument in the E1725/E1740 documentation set. OEM getting-started materials cover E1725C with E1740A for impedance and discontinuity measurements on transmission structures. PCB interconnect TDR, cable/fixtures impedance characterization, and signal-integrity discontinuity location. Transmission line impedance characterization

Instrument Type: time domain reflectometer
Measurement Domain: time domain reflectometry
Primary Use: impedance and discontinuity measurements
Documentation Set: E1725C E1740A getting started guide



MODEL

**Agilent / Keysight
E1725C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1725C

LISTING

<https://aumictechlabs.com/products/e1725c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1725C Time Interval Analyzer is a precision measurement instrument for accurate quantification of time intervals with single-shot jitter and timing noise characterization. It combines fast measurement sampling rates with large memory capacity and advanced analytical features to acquire up to 256,000 sequential single-channel measurements, enabling detailed statistical analysis and histogram generation from extended measurement datasets.

Technical Specifications

Measurement Acquisition: Up to 256,000 single-channel measurements in sequence

Pulse Series Measurement: Up to 80 MHz rate with E1743A and E1744A analysis software options; 12.5 ns minimum continuous interval, 3.2 μ s maximum interval

Edge Capture: Up

to 40 MHz rate with E1742A, E1746A, and E1748A analysis software options (optionally with E1743A and E1744A); 25 ns minimum continuous interval, 104 ms maximum interval Memory: Large capacity (512K standard) Safety Classification: Class I instrument with protective earth terminal; requires connection to mains power with uninterruptible safety earth groundKey Features Single-shot jitter and timing noise characterization Fast measurement sampling rate for time interval analysis Histogram generation from large statistical datasets with high confidence Stand-alone operation with modular software architecture Data export integration with Windows word processing applicationsTypical Applications Jitter measurement and timing noise analysis on electronic signals High-resolution pulse series characterization up to 80 MHz Edge timing capture and analysis up to 40 MHz Extended measurement campaigns requiring statistical confidence from large sample populationsCompatibility & Integration The E1725C operates with HP E1742A/43A/44A/46A/48A analysis software options. Software selection determines specific measurement capabilities: time interval measurement of pulse series or edge capture functionality. Documentation includes a Getting Started Guide and associated user manuals for analysis software. System requirements and detailed setup information are available in the Getting Started Guide.

E1725C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	time domain reflectometer
Product Family	E1725/E1740
Related Module	E1740A
Measurement Domain	time domain reflectometry
Primary Use	impedance and discontinuity measurements
Documentation Set	E1725C E1740A getting started guide
Interconnect Analysis	yes
Cable Fixture Test	yes
PCB Trace Characterization	yes
System Integration	VXI/TDR measurement system class
Operating Temperature Class	laboratory instrument class
Calibration	TDR calibration / normalization path
Display Host	controller based result display
Programming	instrument control via system controller
Stimulus Path	TDR launch stimulus
Receive Path	reflected wave acquisition
Result Types	impedance vs time/distance class
Form Factor Class	modular TDR instrument class
Service Documentation	family service materials
Typical Accessories	TDR cables and launch adapters class
Use Case SI	signal integrity validation
Use Case Manufacturing	cable and fixture screening
Operating temperature	Class: laboratory instrument class

E1725C Specifications

PARAMETER	VALUE
Agilent E1725C Time Domain Reflectometer	Overview
Time domain reflectometry measurements	Works with E1740A documentation set
Technical Specifications	Instrument Type: time domain reflectometer

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory instrument class
Operating Temperature	Class: laboratory instrument class
Operating Temperature Class	laboratory instrument class
Calibration	TDR calibration / normalization path
Display Host	controller based result display
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Form Factor Class	modular TDR instrument class
Service Documentation	family service materials
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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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Notes Source: HP E1725C E1740A getting started documentation index	
Notes	
Product identity and TDR role from HP E1725C/E1740A getting-started documentation indexes. Confirm rise time, impedance range, and distance accuracy from the E1725C specifications chapter before quoting those limits.	

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.