

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1735A

The Agilent/Keysight E1735A USB Axis Module is the electronic interface for the 5519A/B laser head in the 5530 Laser Calibration System. It also interfaces an optional remote control unit and optional A-quadrant encoder input, communicating with the system PC over high-speed USB. Machine-tool and CMM laser calibration axes, linear/plane-mirror/angular interferometer measurements, and A-quadrant encoder comparison on 5530 systems. USB powered interface to 5519A/B laser head Compact form factor for portable laser kits Dimensions: 102 mm x 63 mm x 24 mm (4.02 in x 2.48 in x 0.95 in) Host Operating System Class: Microsoft Windows 98 or later Optional Remote Control: 10888A remote control unit Numeric rows from Agilent E1735A USB Axis Module data sheet 5989-9708EN and Keysight 5530 components guide.



MODEL

**Agilent / Keysight
E1735A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1735A

LISTING

<https://aumictechlabs.com/products/e1735a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The E1735A USB Axis Module is an electronic interface that connects the Keysight 5519A/B laser head to a host PC within the Keysight 5530 Dynamic Calibrator System. The module provides interfaces for optional remote control units and A-quadrant encoder inputs, enabling precise measurement and control across multiple axes. Communication with the PC occurs via high-speed USB 2.0, supporting Microsoft Windows 98 and later operating systems. Its compact 102 × 63 × 24 mm form factor and 220 g weight facilitate integration into diverse calibration and testing environments. Technical Specifications Communication Interface: High-speed USB 2.0 Operating

System Compatibility: Microsoft Windows 98 or later Data Sampling Rate: 100 kHz A-quad-B Input Rate: Greater than 2 ns edge-to-edge, or less than 10 MHz Measurement Frequency: 100 kHz to 10 MHz Linear Interferometer Measurement Range: 0 to 84 m (± 42 m) Typical Resolution: Linear Interferometer: 1 nm Plane Mirror Interferometer: 0.5 nm Angular Interferometer: 0.006 arc-sec Operating Temperature: 0 to 40°C (32 to 104°F) Power Requirement: +5 V, 280 mA maximum current (typical) Physical Dimensions: 102 × 63 × 24 mm (4.02 × 2.48 × 0.95 in) Weight: 220 g (0.48 lb) Key Features Direct interface with 5519A/B laser heads for real-time measurement acquisition Dual encoder support accommodates optional A-quad-B inputs for machine feedback Submicron resolution across multiple interferometer configurations USB 2.0 connectivity eliminates external power supplies and complex cabling Typical Applications Dynamic calibration systems requiring laser-based position measurement Machine tool and precision equipment validation A-quad-B encoder signal acquisition and processing Compatibility & Integration The E1735A integrates into the Keysight 5530 Dynamic Calibrator System and supports 5519A/B laser head connectivity. The included E1735A-001 A-quad-B cable (3 m length) provides unterminated connections for custom encoder integration. Windows 98 through current operating system versions are supported.

E1735A Characteristics / Specifications

PARAMETER	VALUE
Model	E1735A
Instrument Type	USB laser axis module
Host System	5530 Laser Calibration System
Laser Head Interface	5519A/B
Measurement Range Linear Interferometer	0 to 84 m (plus or minus 42 m)
Typical Resolution Linear Interferometer	1 nm
Typical Resolution Plane Mirror Interferometer	0.5 nm
Typical Resolution Angular Interferometer	0.006 arc-sec
Measurement Frequency	100 kHz to 10 MHz
Data Sampling Rate	100 kHzAQuadBInput Rate: greater than 2 ns edge to edge or less than 10 MHz
Power Requirement Typical	+5 V, 280 mA maximum
Operating Temperature	0 C to 40 C (32 F to 104 F)
Dimensions	102 mm x 63 mm x 24 mm (4.02 in x 2.48 in x 0.95 in)
Weight	220 g (0.48 lb)
Host Interface	USB 2.0 high speed
Host Operating System Class	Microsoft Windows 98 or later
Laser Head Cable Family	10882A/B/C
Publication	5989-9708EN
Power Source	powered from PC USB port

E1735A Specifications

PARAMETER	VALUE
Agilent Keysight E1735A USB Axis Module	Overview
Key Features	USB powered interface to 5519A/B laser head
Compact form factor for portable laser kits	Works with 5530 metrology application software
Technical Specifications	Model: E1735A
Notes	Numeric rows from Agilent E1735A USB Axis Module data sheet 5989-9708EN and Keysight 5530 components guide.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 40 C (32 F to 104 F)
Operating Temperature	0 C to 40 C (32 F to 104 F)
Dimensions	102 mm x 63 mm x 24 mm (4.02 in x 2.48 in x 0.95 in)
Weight	220 g (0.48 lb)
Host Interface	USB 2.0 high speed
Host Operating System Class	Microsoft Windows 98 or later
Laser Head Cable Family	10882A/B/C
Publication	5989-9708EN
Power Source	powered from PC USB port Notes Numeric rows from Agilent E1735A USB Axis Module data sheet 5989-9708EN and Keysight 5530 components guide.

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	E1735A
Instrument Type	USB laser axis module
Host System	5530 Laser Calibration System
Laser Head Interface	5519A/B
Measurement Range Linear Interferometer	0 to 84 m (plus or minus 42 m)
Typical Resolution Linear Interferometer	1 nm
Typical Resolution Plane Mirror Interferometer	0.5 nm
Typical Resolution Angular Interferometer	0.006 arc-sec
Measurement Frequency	100 kHz to 10 MHz
Data Sampling Rate	100 kHzAQuadBInput Rate: greater than 2 ns edge to edge or less than 10 MHz
Power Requirement Typical	+5 V, 280 mA maximum
Operating Temperature	0 C to 40 C (32 F to 104 F)
Dimensions	102 mm x 63 mm x 24 mm (4.02 in x 2.48 in x 0.95 in)
Weight	220 g (0.48 lb)
Host Interface	USB 2.0 high speed
Host Operating System Class	Microsoft Windows 98 or later
Optional Remote Control: 10888A remote control unit	
OptionalAQuadBCable: E1735A-001 3 m	
Specifications	
PARAMETER	VALUE
Laser Head Cable Family	10882A/B/C
Publication	5989-9708EN
Power Source	powered from PC USB port

Notes

Numeric rows from Agilent E1735A USB Axis Module data sheet 5989-9708EN and Keysight 5530 components guide.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.