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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5405B

Keysight E5405B Soft Touch Pro 17 Channel Differential Probe The Keysight E5405B is a 17-channel differential Pro Series soft touch connectorless logic analyzer probe for 90-pin pods. It contacts a Pro Series footprint without a target connector and supports data rates to 4 Gb/s depending on the attached analyzer. High density differential bus probing, DDR and high-speed digital debug, and connectorless mid-board access on space constrained PCBs. Seventeen channels with differential or single ended clock and data The Keysight E5405B is a 17-channel differential Pro Series soft touch connectorless logic analyzer probe for 90-pin pods. It contacts a Pro Series footprint without a target connector and supports data rates to 4 Gb/s depending on the attached analyzer. High density differential bus probing, DDR and high-speed digital debug, and connectorless mid-board access on space constrained PCBs. Seventeen channels with differential or single ended clock and data Pro Series soft touch footprint thirty percent smaller than classic soft touch



MODEL

**Agilent / Keysight
E5405B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5405B

LISTING

<https://aumictechlabs.com/products/e5405b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E5405B is a 17-channel differential connectorless probe engineered for direct signal access on PCBs without requiring a physical connector on the target board. Designed for engineers and laboratories performing advanced signal analysis and characterization, this probe

delivers high-speed data capture with minimal electrical loading. The E5405B uses Keysight's Soft Touch Pro Series connectorless probing technology - an industry-standard footprint approach that reduces PCB real estate requirements in space-constrained applications.

Technical Specifications

- Channels:** 17 total (configurable as 16 single-ended or differential data channels plus 1 single-ended or differential clock channel)
- Equivalent Load Capacitance:** Less than 0.7 pF
- Maximum Data Rate:** Greater than 2.5 Gb/s
- Minimum Signal Amplitude:** 200 mV $V_{max}-V_{min}$

Contact Technology: Micro spring-pin technology for reliable pad engagement on uneven or contaminated surfaces

Retention Mechanism: Top-side retention module - no backside PCB access required

Key Features

- Connectorless probing eliminates discrete connector components on the target board
- Micro spring-pin contact ensures stable electrical connection across varied surface conditions
- Topside retention simplifies probe deployment and improves workflow efficiency
- Suitable for all board surfaces, including lead-free assemblies
- Low capacitive loading preserves signal integrity for high-speed measurements

Typical Applications

- Signal characterization on high-density PCBs, embedded system debugging, complex electronic subsystem analysis, and space-limited design environments where traditional connectorized probes introduce unacceptable footprint overhead.

Compatibility & Integration

The E5405B connects to logic analyzers equipped with 90-pin cable connectors. Deployment requires upfront design integration of the Pro Series Soft Touch connectorless footprint into the target PCB.

E5405B Characteristics / Specifications

PARAMETER	VALUE
Model	E5405B
Instrument Type	Soft Touch Pro differential logic analyzer probe
Channel Count	17
Data Channels	16
Clock Channels	1
Signal Type	differential or single ended clock and data
Maximum Data Rate	4 Gb/s analyzer dependent
Minimum Signal Amplitude	200 mV Vmax minus Vmin
Input Capacitance Equivalent	less than 0.7 pF
Analyzer Interface	90 pin pod connector
Target Interface	Pro Series soft touch connectorless footprint
Retention Module	top side
Unused Clock As Data	supported
Compatible Analyzer Class	logic analyzers with 90 pin cables
U4201A Cable Usage	one probe per U4201A cable pod pair class
Footprint Family	E5400 Pro Series shared with E5404A E5406A
Retention Kit Spare Part Class	E5403A five pack
Probing Technology	micro spring pin soft touch
Board Plating Requirement	no special plating required
Lead Free Board Support	yes
Retention Modules Included	kit of 5
Footprint Size Reduction Vs Classic	30 percent
Probe Series	E5400 Pro Series
Data Rate	4 Gb/s analyzer dependent

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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Board Plating Requirement	no special plating required
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Retention Modules Included	kit of 5
Footprint Size Reduction Vs Classic	30 percent
Probe Series	E5400 Pro Series
Notes	
Numeric rows from Keysight Probing Solutions for Logic Analyzers datasheet E5405B section.	

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.