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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5406A

Keysight E5406A Soft Touch Pro 34 Channel Single Ended Probe The Keysight E5406A is a 34-channel single-ended Pro Series soft touch connectorless probe for 90-pin logic analyzers, providing 32 data plus 2 clock channels with under 0.7 pF loading and up to 4 Gb/s analyzer-limited rates. Wide parallel bus capture, FPGA and ASIC bring-up, and connectorless probing where a 34-channel soft touch footprint is designed into the target. Thirty four channels on one Pro Series soft touch head The Keysight E5406A is a 34-channel single-ended Pro Series soft touch connectorless probe for 90-pin logic analyzers, providing 32 data plus 2 clock channels with under 0.7 pF loading and up to 4 Gb/s analyzer-limited rates. Wide parallel bus capture, FPGA and ASIC bring-up, and connectorless probing where a 34-channel soft touch footprint is designed into the target. Thirty four channels on one Pro Series soft touch head Single ended data with differential or single ended clock



MODEL

**Agilent / Keysight
E5406A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5406A

LISTING

<https://aumictechlabs.com/products/e5406a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E5406A is a Pro Series soft touch connectorless probe engineered for high-speed digital debugging and signal integrity analysis. It has direct access to target signals without requiring physical connectors on the PCB, using micro spring-pin technology to contact signal pads reliably across uneven and contaminated surfaces. The top-side retention module eliminates

backside board access, streamlining the probing workflow and enabling accurate measurements of high-speed digital signals with minimal loading on the target system.

Technical Specifications

Signal Architecture 34 channels total: 32 single-ended data channels, 2 single-ended or differential clock channels

Equivalent load capacitance: Less than 0.7 pF

Maximum data rate: Greater than 2.5 Gb/s

Minimum measurable signal amplitude: 250 mV peak-to-peak

Mechanical & Physical Design Footprint 30% smaller than previous soft touch probe generations

Micro spring-pin contact technology for signal pad engagement

Top-side retention module design Compatible with all board surfaces, including lead-free materials

Key Features Connectorless probing eliminates PCB connector footprints, reducing board real estate by 30% compared to prior versions

Ultra-low loading at less than 0.7 pF enables accurate high-speed measurements above 2.5 Gb/s without signal degradation

Reliable contact across surface irregularities and oxide contamination through micro spring-pin technology

Top-side access eliminates the need for backside board manipulation, reducing setup time and handling risk

Supports both single-ended and differential clock measurements within the same probe assembly

Typical Applications High-speed digital system debugging and verification

Real-time signal integrity analysis on production boards

Multi-channel data capture on lead-free PCB assemblies

Low-jitter clock and timing measurements

Compatibility & Integration The E5406A interfaces with logic analyzers equipped with 90-pin cable connectors. Integration requires upfront design of the Pro Series soft touch connectorless footprint on the target PCB. The probe operates across all standard board surface finishes, including lead-free technologies. Note: This product is no longer available due to non-compliance with EU RoHS Directive 2011/65/EU. Keysight provides ongoing service and support through the end of worldwide support life.

E5406A Characteristics / Specifications

PARAMETER	VALUE
Model	E5406A
Instrument Type	Soft Touch Pro single ended logic analyzer probe
Channel Count	34
Data Channels	32
Clock Channels	2
Signal Type Data	single ended
Signal Type Clock	differential or single ended
Maximum Data Rate	4 Gb/s analyzer dependent
Minimum Signal Amplitude	250 mV peak to peak
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
U4201A Cable Usage	uses both pods of a U4201A cable
Compatible Analyzer Class	90 pin logic analyzer pods
Footprint Family	E5400 Pro Series
Retention Kit Spare Part Class	E5403A
Channel Mapping	32 data plus 2 clocks
Probing Technology	micro spring pin soft touch
Board Access	no back side retention required
Lead Free Board Support	yes
Retention Modules Included	kit of 5
Minimum Amplitude Classic Soft Touch Family	250 mV p-p
Probe Series	E5400 Pro Series

PARAMETER	VALUE
Data Rate	4 Gb/s analyzer dependent

E5406A Specifications

PARAMETER	VALUE
Top side retention shared with other Pro Series probes	Four Gb/s class maximum data rate
Technical Specifications	Model: E5406A
Notes	Numeric rows from Keysight Probing Solutions for Logic Analyzers datasheet E5406A section.

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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Retention Modules Included	kit of 5
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Probe Series	E5400 Pro Series

Notes

Numeric rows from Keysight Probing Solutions for Logic Analyzers datasheet E5406A 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.