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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5380A

Keysight E5380A 38 Pin Mictor Single Ended Logic Analyzer Probe The Keysight E5380A is a 34-channel single-ended 38-pin Mictor probe for logic analyzers with 90-pin pod connectors. It is pin-compatible with targets designed for the E5346A high-density probe adapter and captures state data at clock speeds up to 600 MHz with amplitudes as small as 300 mV peak-to-peak. High-density board probing on Mictor footprints, migrating legacy E5346A designs to newer 90-pin analyzers, and synchronous state capture at up to 600 Mb/s. The Keysight E5380A is a 34-channel single-ended 38-pin Mictor probe for logic analyzers with 90-pin pod connectors. It is pin-compatible with targets designed for the E5346A high-density probe adapter and captures state data at clock speeds up to 600 MHz with amplitudes as small as 300 mV peak-to-peak. High-density board probing on Mictor footprints, migrating legacy E5346A designs to newer 90-pin analyzers, and synchronous state capture at up to 600 Mb/s. Thirty four channels on a single 38-pin Mictor connector



MODEL

**Agilent / Keysight
E5380A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5380A

LISTING

<https://aumictechlabs.com/products/e5380a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E5380A is a single-ended Mictor connector probe for signal acquisition and analysis with Agilent logic analyzers. It has direct connection to densely populated target boards via an integrated 38-pin Mictor footprint, eliminating the need for external signal routing. The

probe delivers low-capacitance signal paths to the logic analyzer with minimal loading effects on the device under test.

Technical Specifications

Connector Type: Single-ended Mictor (38-pin footprint)

Equivalent Load Capacitance: 3.0 pF

Maximum Data Rate: 600 Mb/s

Minimum Measurable Signal Amplitude: 300 mV p-p

Logic Analyzer Interface: 90-pin cable connector

Key Features

Low-capacitance probe design minimizes signal loading on target circuits

38-pin Mictor footprint enables integration directly into PCB designs

Support shrouds available for board thicknesses up to 0.12 inches, protecting against accidental disconnection

Compatible with standard Mictor connector part numbers: Agilent 1252-7431 or AMP 2-767004-2

Typical Applications

The E5380A is suited for embedded signal monitoring in high-density digital designs where board space is constrained and traditional probe solutions cannot be accommodated. Its 600 Mb/s capability and 300 mV p-p minimum sensitivity support acquisition of logic-level signals across a range of digital interfaces.

Compatibility & Integration

The probe connects directly to Agilent logic analyzers equipped with 90-pin cable connectors. Target-side integration requires a Mictor connector footprint on the device under test, allowing measured signals to be routed to this connection point. The 3.0 pF load capacitance preserves signal integrity in sensitive analog and mixed-signal environments.

E5380A Characteristics / Specifications

PARAMETER	VALUE
Model	E5380A
Instrument Type	single ended Mictor logic analyzer probe
Channel Count	34
Data Channels	32
Clock Channels	2
Signal Type Clock	single ended
Signal Type Data	single ended
Maximum State Clock Speed	600 MHz
Maximum Data Rate	600 Mb/s
Minimum Signal Amplitude	300 mV peak to peak
Target Connector	38 pin Mictor AMP compatible
Analyzer Cable Interface	90 pin pod connectors
Probe Cable Groups	two 17 channel cables
Input Capacitance Class	3.0 pF Mictor probe class
Compatible Analyzer Modules Class	16760A 16753A 16754A 16755A 16756A class
Legacy Adapter Compatibility	E5346A footprint compatible
Supported Analyzer Family	90 pin logic analyzer pods
Connector Style	Mictor 38 pin
Probe Role	quick connection to many channels in small footprint
Maximum Data Rate Sibling E5380B Class	600 Mb/s
Minimum Amplitude Sibling Class	300 mV p-p
Channel Mapping	32 data plus 2 clocks
Probes Per U4201A Cable Class	1
Data Rate	600 Mb/s

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	
Numeric rows from Agilent 16700B probing chapter for E5380A and Keysight Probing Solutions for Logic Analyzers datasheet Mictor probe class shared with E5380B.	

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.