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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5380B

Keysight E5380B 38 Pin Mictor Single Ended Logic Analyzer Probe The Keysight E5380B is a 34-channel single-ended Mictor probe that connects two 17-channel cables to one 38-pin Mictor connector. Maximum state speed is 600 Mb/s with a 300 mV peak-to-peak minimum amplitude and about 3.0 pF input capacitance including the connector. Dense single-ended bus probing on Mictor-equipped boards and reuse of E5346A-compatible target connectors with modern Keysight logic analyzers. Thirty four channels 32 data plus 2 clocks The Keysight E5380B is a 34-channel single-ended Mictor probe that connects two 17-channel cables to one 38-pin Mictor connector. Maximum state speed is 600 Mb/s with a 300 mV peak-to-peak minimum amplitude and about 3.0 pF input capacitance including the connector. Dense single-ended bus probing on Mictor-equipped boards and reuse of E5346A-compatible target connectors with modern Keysight logic analyzers. Thirty four channels 32 data plus 2 clocks Instrument Type: single ended Mictor logic analyzer probe



MODEL

**Agilent / Keysight
E5380B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5380B

LISTING

<https://aumictechlabs.com/products/e5380b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E5380B is a 34-channel Mictor probe designed for high-fidelity signal capture in digital system debugging and validation. It connects directly to a device under test via an integrated Mictor connector, providing minimal signal distortion for accurate logic analysis. The

probe interfaces with Keysight logic analyzers through a 90-pin cable connector, enabling straightforward integration into target systems requiring multi-channel digital signal monitoring.

Technical Specifications

Signal Channels: 34 total channels - 32 single-ended data channels and 2 single-ended clock channels

Maximum Data Rate: 600 Mb/s

Equivalent Load Capacitance: 3.0 pF

Minimum Measurable Signal Amplitude: 300 mV peak-to-peak

Connector Footprint: 38-pin Mictor on target device

Cable Interface: 90-pin connector to logic analyzer

Key Features

- Low loading impedance (3.0 pF) minimizes signal distortion and preserves signal integrity on the target board
- Supports data rates up to 600 Mb/s, suitable for contemporary digital system validation
- Optional support shroud prevents accidental probe dislodging in vibration-prone environments; compatible with PCBs up to 0.12 inches thick
- Compatible Mictor connector part numbers: Keysight 1252-7431 or AMP 2-767004-2
- Ground pin placement between signal lines enhances signal-to-signal isolation

Typical Applications

- Embedded system debugging and real-time signal capture
- FPGA and ASIC validation during design verification
- Multi-channel digital signal monitoring in target PCB integration
- Post-production validation and field diagnostics

Compatibility & Integration

The E5380B interfaces with Keysight logic analyzers featuring 90-pin cable connectors, including the 16900 Series, 16800 Series, 16700 Series, 1660 Series, 1650 Series, and E9340 series instruments. The probe is compatible with the E5346A high-density probe adapter. Integration requires routing signals of interest to the Mictor connector location on the DUT; optimal signal integrity is achieved by connecting multiple ground pins to the target board's ground system.

E5380B Characteristics / Specifications

PARAMETER	VALUE
Model	E5380B
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 Data Rate	600 Mb/s
Maximum State Speed	600 Mbits/second
Minimum Signal Amplitude	300 mV peak to peak
Input Capacitance	3.0 pF
Target Connector	38 pin Mictor
Legacy Footprint Compatibility	E5346A high density probe adapter
Analyzer Interface	logic analyzer probe cables
Probes Required Per U4201A Cable	1
Mating Kit Class Thin Board	kit of 5 shrouds and 5 Mictor connectors up to 1.57 mm board
Application Class	quick connection to many channels in small footprint
Supported Signal Types Summary	single ended clock single ended data
Sibling Samtec Probe Max Rate Class	1.5 Gb/s E5378A class
Sibling Flying Lead Capacitance Class	0.9 to 1.3 pF class
Channel Composition	32 data 2 clocks
Probe Family	Mictor probes
Compatible Soft Touch Capacitance Class Contrast	less than 0.7 pF soft touch class
Data Rate	600 Mb/s

E5380B Specifications

PARAMETER	VALUE
Key Features	Thirty four channels 32 data plus 2 clocks
Six hundred Mb/s maximum data rate	Three hundred mV p-p minimum amplitude
Technical Specifications	Model: E5380B
Notes	Numeric rows from Keysight Probing Solutions for Logic Analyzers datasheet E5380B section and comparison tables.

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	
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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

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NIST-traceable calibration · SAM registered ·
30-day returns
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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.