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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U4322A

Keysight U4322A PCIe Mid Bus Probe Soft Touch Gen3 The Agilent/Keysight U4322A isaSoft Touch mid-bus probe for the U4301A PCI Express 3.0 protocol analyzer. It captures Gen1 through Gen3 traffic where no standard PCIe connector is available, using equalization snoop probe technology and micro spring-pin contact to signal pads. PCIe Gen1/Gen2/Gen3 mid-bus protocol debug on embedded links, x16 unidirectional or x8 bidirectional captures, and layout-flexible probing with independent reference clocks per four lanes. The Agilent/Keysight U4322A isaSoft Touch mid-bus probe for the U4301A PCI Express 3.0 protocol analyzer. It captures Gen1 through Gen3 traffic where no standard PCIe connector is available, using equalization snoop probe technology and micro spring-pin contact to signal pads. PCIe Gen1/Gen2/Gen3 mid-bus protocol debug on embedded links, x16 unidirectional or x8 bidirectional captures, and layout-flexible probing with independent reference clocks per four lanes. ESP equalization snoop probe for accurate Gen3 recovery



MODEL

**Agilent / Keysight
U4322A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U4322A

LISTING

<https://aumictechlabs.com/products/u4322a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight U4322A is a mid-bus probe for real-time digital debugging and validation of PCI Express systems. It delivers accurate signal capture across PCIe Gen1, Gen2, and Gen3 architectures using Equalizing Snoop Probe (ESP) technology, which ensures data integrity at line

speed. The probe accommodates link widths from x1 through x16, including X16 straight, X16 swizzled, X8 bi-directional, and bifurcation configurations - all with a single probe type. Micro spring-pin contact technology and a spring-loaded protective cover minimize wear and reduce overall test cost.

Technical Specifications

Protocol Support: PCI Express Gen1, Gen2, Gen3

Data Rates: 2.5 GT/s (Gen1), 5.0 GT/s (Gen2), 8.0 GT/s (Gen3)

Link Widths: x1 through x16 (X16 straight, X16 swizzled, X8 bi-directional, bifurcation)

Probing Technology: Equalizing Snoop Probe (ESP) for signal recovery; micro spring-pin contacts

Clock Architecture: Independent reference clock per 4 lanes

Mechanical Protection: Spring-loaded probe tip cover

Key Features

- Single probe type supports all PCIe link configurations, eliminating inventory complexity
- Independent clock distribution per 4-lane group enhances layout flexibility
- Mid-bus architecture enables non-invasive access to PCI Express signals
- Spring-loaded contact protection extends probe lifespan and improves reliability

Typical Applications

- PCI Express endpoint and root complex validation
- High-speed digital protocol analysis up to 8.0 GT/s
- Multi-lane PCIe system debugging (x1 to x16)
- Bifurcated link testing and swizzled configuration analysis

Compatibility & Integration

Designed for use with Keysight U4301A PCI Express 3.0 Analyzer Module

Compatible with Keysight protocol analyzers supporting this probe interface

Operates within AXIe chassis such as the Keysight M9502A

U4322A Characteristics / Specifications

PARAMETER	VALUE
Model	U4322A
Instrument Type	PCIe mid bus Soft Touch probe
Supported PCIe Generations	Gen1 Gen2 Gen3
Lane Speed Gen	2.5 GT/s
Unidirectional Link Width Support	x1 to x16
Bidirectional Link Width Support	x1 to x8
Contact Technology	micro spring pin Soft Touch
Equalization Technology	ESP equalization snoop probe
Reference Clock Architecture	independent reference clock per four lanes
Companion Analyzer Module	U4301A PCIe 3.0 analyzer
Companion Interposer Probe	U4321A solid slot interposer
Companion Flying Lead Probe	U4324A
Retention Modules Accessory	U4322A R05 set of 5
Gen3 To Gen2 Adaptor	U4317A
Maximum Input Voltage Class	25 V max or 3 Vrms into 250 Ohm
Operating Temperature	0 C to 40 C
Storage Temperature	minus 40 C to 70 C
Humidity	15 percent to 95 percent noncondensing
Altitude Maximum	3000 m 10000 ft
Package Style	mid bus probe for AXIe U4301A systems
Bifurcation Support	one physical link as two logical links
Probe Cover	spring loaded protective cover on tip
Host Chassis Class	AXIe two slot or AMP chassis with U4301A

U4322A Specifications

PARAMETER	VALUE
Keysight U4322A PCIe Mid Bus Probe Soft Touch Gen3	Overview
Soft Touch micro spring pin pad contact	ESP equalization snoop probe for accurate Gen3 recovery
Independent reference clock per four lanes	One probe type for x16 straight swizzled and bifurcation
Technical Specifications	Model: U4322A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Humidity	15 percent to 95 percent noncondensing
Altitude Maximum	3000 m 10000 ft
Package Style	mid bus probe for AXIe U4301A systems
Bifurcation Support	one physical link as two logical links
Probe Cover	spring loaded protective cover on tip
Host Chassis Class	AXIe two slot or AMP chassis with U4301A Notes Numeric and capability rows from Keysight U4301A PCI Express 3.0 Analyzer Module data sheet 5990-5018EN probing section for U4322A mid-bus probe characteristics.

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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Model	U4322A
Instrument Type	PCIe mid bus Soft Touch probe
Supported PCIe Generations	Gen1 Gen2 Gen3
Lane Speed Gen1	2.5 GT/s
Lane Speed Gen2	5.0 GT/s
Lane Speed Gen3	8.0 GT/s
Unidirectional Link Width Support	x1 to x16
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Reference Clock Architecture	independent reference clock per four lanes
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Notes

Numeric and capability rows from Keysight U4301A PCI Express 3.0 Analyzer Module data sheet 5990-5018EN probing section for U4322A mid-bus probe characteristics.

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.