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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U4324A

Keysight U4324A PCIe Flying Lead Solder Down Probe The Agilent/Keysight U4324A is a flying-lead solder-down probe for the U4301A PCI Express 3.0 analyzer. It provides Gen1 through Gen3 capture on soldered connections with channel options for x1/x2 bidirectional up through wider lane configurations using multiple probes. Soldered PCIe Gen3 link debug on boards without connectors, multi-lane capture with N5426A ZIF tips, and flexible flying-lead attachment in AXIe analyzer systems. Expandable to x4 ×8 ×16 with additional probes The Agilent/Keysight U4324A is a flying-lead solder-down probe for the U4301A PCI Express 3.0 analyzer. It provides Gen1 through Gen3 capture on soldered connections with channel options for x1/x2 bidirectional up through wider lane configurations using multiple probes. Soldered PCIe Gen3 link debug on boards without connectors, multi-lane capture with N5426A ZIF tips, and flexible flying-lead attachment in AXIe analyzer systems. Expandable to x4 ×8 ×16 with additional probes Instrument Type: PCIe flying lead solder down probe



MODEL

**Agilent / Keysight
U4324A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U4324A

LISTING

<https://aumictechlabs.com/products/u4324a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U4324A is a flying lead solder-down probe designed for direct capture of PCI Express differential signals where standard PCIe slot connectors or mid-bus footprints are inaccessible. The probe consists of five cables: four dedicated to PCIe signal acquisition and one

for optional external reference clock connection. It integrates with the U4301A PCIe Gen3 Protocol Analyzer module to enable silicon, system, and embedded PC connector testing across PCIe Gen1, Gen2, and Gen3 standards.

Technical Specifications

Probe Type: Flying lead solder-down probe with low capacitive loading

Signal Architecture: Five cables total - four for PCI Express differential signals, one for optional external reference clock

Connector Tips: Replaceable N5426A ZIF (Zero Insertion Force) tips soldered directly to DUT channels

Pod Interface: Connects to U4301A PCIe3 Protocol Analyzer port

Reference Clock: 3-pin header, compatible with U4322A Mid Bus 3.0 probe reference clock connection

Supported Data Rates: PCIe 2.5 Gb/s, 5.0 Gb/s, and 8.0 Gb/s

Operating Temperature: 0 °C to +55 °C

Traceability: Unique serial number per probe

Key Features

- Single probe supports x1, x2 (unidirectional or bidirectional), or x4 unidirectional lane configurations
- Two probes required for x4 bidirectional or x8 unidirectional probing
- Provides 4 channels per probe with full customizable per-channel mapping
- Bidirectional capability on every channel - independently selectable upstream or downstream direction
- Replaceable ZIF tips minimize testing costs through non-destructive tip exchange
- Modular protocol analyzer software enables remapping of any available probe wire

Typical Applications

- Silicon validation and bring-up where standard PCIe connectors unavailable
- System-level embedded PC and connector testing
- Multi-lane protocol capture in constrained form-factor designs

Compatibility & Integration

The U4301A PCIe Gen3 Protocol Analyzer accommodates up to four U4324A probes simultaneously, delivering maximum capacity of 16 unidirectional channels or 8 bidirectional channels when fully populated.

U4324A Characteristics / Specifications

PARAMETER	VALUE
Model	U4324A
Instrument Type	PCIe flying lead solder down probe
Supported PCIe Generations	Gen1 Gen2 Gen3
Lane Speed Gen	2.5 GT/s
Channels Per Probe	4 channel probe class
Bidirectional Width Single Probe	x1 and x2
Supported Width With Multiple Probes	x4 ×8 ×16
Companion Analyzer Module	U4301A
Zif Tip Kit	N5426A ten piece kit
Equalization Technology	ESP with U4301A analyzer
Package Style	flying lead solder down
Host Platform	AXIe U4301A analyzer blade
Capture Buffer On Analyzer	4 GB per U4301A module
Link Width Family Support	x1 through x16 with system probes
Probe Role	soldered mid board access where connectors absent
Operating Context Temperature Class	laboratory 0 C to 40 C class family
Storage Temperature Class	minus 40 C to 70 C class family
Altitude Class	3000 m class analyzer family
Humidity Class	15 to 95 percent noncondensing class family
Stimulus Companion	U4305A Gen3 exerciser optional
Interposer Alternative	U4321A solid slot
Mid Bus Alternative	U4322A Soft Touch
Retention And Tips	ZIF tips ordered separately as N5426A
Storage temperature	Class: minus 40 C to 70 C class family
Humidity	Class: 15 to 95 percent noncondensing class family

U4324A Specifications

PARAMETER	VALUE
Keysight U4324A PCIe Flying Lead Solder Down Probe	Overview
Flying lead solder down attachment	Gen1 through Gen3 speed support
x1 and x2 bidirectional on a single probe	Expandable to x4 ×8 ×16 with additional probes
Technical Specifications	Model: U4324A
Notes	From Keysight U4301A PCI Express 3.0 Analyzer Module data sheet 5990-5018EN flying lead probe ordering and capability section for U4324A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class family
Humidity	Class: 15 to 95 percent noncondensing class family
Storage Temperature Class	minus 40 C to 70 C class family
Altitude Class	3000 m class analyzer family
Humidity Class	15 to 95 percent noncondensing class family
Stimulus Companion	U4305A Gen3 exerciser optional
Interposer Alternative	U4321A solid slot
Mid Bus Alternative	U4322A Soft Touch
Retention And Tips	ZIF tips ordered separately as N5426A Notes From Keysight U4301A PCI Express 3.0 Analyzer Module data sheet 5990-5018EN flying lead probe ordering and capability section for U4324A.

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	
Specifications	
PARAMETER	VALUE
Model	U4324A
Instrument Type	PCIe flying lead solder down 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
Channels Per Probe	4 channel probe class
Bidirectional Width Single Probe	x1 and x2
Supported Width With Multiple Probes	x4 x8 x16
Companion Analyzer Module	U4301A
Zif Tip Kit	N5426A ten piece kit
Equalization Technology	ESP with U4301A analyzer
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Notes

From Keysight U4301A PCI Express 3.0 Analyzer Module data sheet 5990-5018EN flying lead probe ordering and capability section for U4324A.

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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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.