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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U4002A

Keysight U4002A AXIe / Logic Analyzer System Accessory The Keysight U4002A is an AXIe/logic-analyzer system accessory in the U40xx family used with U4164A/M9502A memory protocol systems. OEM U4164A configuration lists U4002A among AXIe chassis/controller accessories for U4970-series memory bundles. AXIe chassis/controller accessory functions in U4164A memory protocol systems. Instrument Type: AXIe / logic analyzer system accessory The Keysight U4002A is an AXIe/logic-analyzer system accessory in the U40xx family used with U4164A/M9502A memory protocol systems. OEM U4164A configuration lists U4002A among AXIe chassis/controller accessories for U4970-series memory bundles. AXIe chassis/controller accessory functions in U4164A memory protocol systems. Instrument Type: AXIe / logic analyzer system accessory Host: U4164A M9502A memory protocol systems



MODEL

**Agilent / Keysight
U4002A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U4002A

LISTING

<https://aumictechlabs.com/products/u4002a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U4002A is a 2-slot AXIe chassis that is a modular, scalable platform for high-density test and measurement systems. This half-width instrument accommodates application-specific blades alongside an integrated chassis manager, enabling portable deployments or lab installations with optional rackmount brackets. The architecture supports system expansion

through multi-chassis networking and centralized control, making it ideal for complex testing workflows that demand instrumentation.

Technical Specifications

-# Chassis and Backplane Slot Configuration:

2 total slots for application blades; bottom half-width slot dedicated to chassis manager

Backplane Architecture:

AXIe 1.0 compliant with Gigabit Ethernet switching, PCIe Gen 2 x4 lanes to each module slot, secondary PCIe data fabric, distributed Gigabit Ethernet LAN per slot, and 62-pair local bus for adjacent module signaling and data transfer

Power Distribution:

Managed across all blades through the backplane

-# Chassis Manager (U4002-00101)

Blade insertion tracking and blade power management

Thermal monitoring with variable-speed fan control

Blade sensor monitoring and failure reporting to system log

Gigabit Ethernet switching for inter-chassis communication

Timing synchronization via Agilent Test Bus with internal or external clock sources

PCIe (x4, Gen1/Gen2 compliant) interface for external system controller connection

USB availability (not supported in initial release)

-# Connectivity Interfaces

Gigabit Ethernet:

Backplane interface with front panel RJ45 LAN connection; functions as network switch

PCIe:

Distributed Gen 2 fabric (x4 lanes per slot) from Embedded System Module to application blades

Synchronization:

Agilent Test Bus for multi-chassis timing; external trigger and clock inputs supported

Key Features

Modular AXIe platform combining VXIbus, LXI, and PXI standard integration

Enhanced timing, triggering, and module-to-module data movement capabilities

Scalable multi-chassis architecture with centralized management

Integrated thermal and power management

PCIe Gen 2 high-speed data fabric with distributed Ethernet

Typical Applications

Portable test systems

Laboratory and field measurement deployments

Complex signal processing and data acquisition

Multi-instrument synchronization and control

Compatibility & Integration

The U4002A integrates with AXIe-compliant application blades and supports external system controllers via PCIe. Multi-chassis systems connect through Gigabit Ethernet networking with centralized timing via the Agilent Test Bus, enabling distributed test architectures.

U4002A Characteristics / Specifications

PARAMETER	VALUE
Model	U4002A
Instrument Type	AXIe / logic analyzer system accessory
Host	U4164A M9502A memory protocol systems
Related Bundles	U4970A U4971A U4972A
Related Chassis	M9502A AXIe 2-slot
Related Controller	M9537A
Manufacturer	Keysight
Form Factor	AXIe/system accessory
Literature	U4002A / U4164A configuration lists
Use Case	AXIe memory analyzer accessory
Operating Temperature Class	AXIe chassis rating
Power	from AXIe chassis
Slots	AXIe
Interface	AXIe
Related Cables	U4201A logic analyzer cables
Related Probes	U4206A Soft Touch Pro
Storage	system accessory
Safety	AXIe module
Cooling	chassis
Logical Address	AXIe geographic
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Operating temperature	Class: AXIe chassis rating

U4002A Specifications

PARAMETER	VALUE
Keysight U4002A AXIe / Logic Analyzer System Accessory	Overview
Applications	AXIe chassis/controller accessory functions in U4164A memory protocol systems.
Key Features	U40xx AXIe accessory
Keyed AXIe/system connectors	Supports U4970/U4971/U4972 systems
Technical Specifications	Model: U4002A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: AXIe chassis rating
Operating Temperature	Class: AXIe chassis rating
Operating Temperature Class	AXIe chassis rating
Power	from AXIe chassis
Slots	AXIe
Interface	AXIe
Related Cables	U4201A logic analyzer cables
Related Probes	U4206A Soft Touch Pro
Storage	system accessory
Safety	AXIe module
Cooling	chassis
Logical Address	AXIe geographic
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications Notes Identity from Keysight U4002A listings in U4164A/AXIe memory-protocol configuration. Exact function (filler, ESM, or I/O) is on the U4002A label / configuration guide.

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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Related Chassis	M9502A AXIe 2-slot
Related Controller	M9537A
Manufacturer	Keysight
Form Factor	AXIe/system accessory
Literature	U4002A / U4164A configuration lists
Use Case	AXIe memory analyzer accessory
Operating Temperature Class	AXIe chassis rating
Power	from AXIe chassis
Slots	AXIe
Interface	AXIe
Related Cables	U4201A logic analyzer cables
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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

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.