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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U4970A

Keysight U4970A DDR5 Memory Protocol Solution Bundle U4164A AXIe The Keysight U4970A isaDDR5 protocol debug and compliance bundle built around a U4164A 136-channel logic analyzer, M9502A 2-slot AXIe chassis, and M9537A embedded controller. OEM Memory Protocol Solution Bundles data sheet lists U4164A-02G 4 GT/s state / 10 GHz timing, U4164A-008 8 Mb depth on typical DDR5 HW, B4661A memory analysis software, and U4206A 34-channel Soft Touch Pro probing. DDR/DDR2/DDR3/DDR4/DDR5 protocol listing, compliance validation, and analysis. The Keysight U4970A isaDDR5 protocol debug and compliance bundle built around a U4164A 136-channel logic analyzer, M9502A 2-slot AXIe chassis, and M9537A embedded controller. OEM Memory Protocol Solution Bundles data sheet lists U4164A-02G 4 GT/s state / 10 GHz timing, U4164A-008 8 Mb depth on typical DDR5 HW, B4661A memory analysis software, and U4206A 34-channel Soft Touch Pro probing. DDR/DDR2/DDR3/DDR4/DDR5 protocol listing, compliance validation, and analysis. U4164A 136 ch 12.5 GHz timing zoom 5 GHz timing 350 MHz base 2 Mb



MODEL

**Agilent / Keysight
U4970A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U4970A

LISTING

<https://aumictechlabs.com/products/u4970a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight U4970A is a DDR5 Protocol Debug and Analysis Solution that delivers protocol debugging, compliance validation, and in-depth memory interface analysis across DDR

through DDR5 generations. The system integrates a U4164A logic analyzer module, M9502A AXIe 2-slot chassis, M9537A embedded controller running Windows 10, and B4661A memory analysis software into a cohesive platform for high-speed memory characterization.

Technical Specifications

Hardware Architecture

- U4164A Logic Analyzer Module with configurable performance tiers
- Maximum acquisition speed: 4GT/s (with U4164A-02G option)
- Maximum memory depth: 8Mb (with U4164A-008 option)
- M9502A AXIe 2-slot Chassis with optional embedded system module (ESM)
- USB connectivity
- M9537A AXIe High Performance Embedded Controller with keyboard and mouse included

Probing & Signal Acquisition

- U4206A probe: 34-channel Soft Touch Pro configuration
- 4 × 160-pin direct-connect probe architecture

Software

- B4661A Memory Analysis Software (base license)
- Licensed analysis options: B4661A-1FP through B4661A-5FP
- Node-locked perpetual licensing model

Key Features

- Multi-generation memory protocol support: DDR, DDR2, DDR3, DDR4, DDR5
- Integrated acquisition and analysis workflow eliminates external tool dependencies
- Direct-connect probing minimizes signal integrity degradation
- Configurable performance options enable cost-aligned system builds
- Windows 10 embedded controller supports standard software ecosystems

Typical Applications

- Memory subsystem protocol compliance validation
- Real-time DDR signal integrity analysis
- Memory controller and DIMM interaction debugging
- High-speed interface characterization during design validation

Compatibility & Integration

The U4970A bundle operates as a closed system with all components pre-loaded and configured on the M9537A controller. USB connectivity to the M9502A chassis enables external system integration when required. The modular AXIe architecture accommodates future expansion within the 2-slot chassis footprint.

U4970A Characteristics / Specifications

PARAMETER	VALUE
Model	U4970A
Instrument Type	DDR5 memory protocol solution bundle
Logic Analyzer	U4164A 136 channel
State Speed Option 02g	4 GT/s (2.5 GHz) class
Timing Speed Option 02g	10 GHz
Base Timing	5 GHz
Base State	350 MHz
Timing Zoom	12.5 GHz
Base Memory Depth	2 Mb
Chassis	M9502A AXIe 2-slot with ESM USB
Controller	M9537A AXIe embedded controller
Memory Software	B4661A
Decoder Licenses	B4661A-1FP DDR/2/3/4 listing
Probe Included Class	U4206A 34 channel Soft Touch Pro
Logic Analyzer Cables Class	U4201A
Target Technologies	DDR DDR2 DDR3 DDR4 DDR5
Warranty On Core Hw	3-year KeysightCare class on U4164A/M9502A/M9537A
Software License Type	node locked perpetual
User Supplied	monitor and video cable
Form Factor	AXIe modular system
Manufacturer	Keysight
Brand Lineage	Hewlett Packard Agilent Keysight

U4970A Specifications

PARAMETER	VALUE
Applications	DDR/DDR2/DDR3/DDR4/DDR5 protocol listing, compliance validation, and analysis.
Systemized hardware plus software	U4164A 136 ch 12.5 GHz timing zoom 5 GHz timing 350 MHz base 2 Mb
M9537A controller with Windows	B4661A DDR listing and compliance licenses
Technical Specifications	Model: U4970A

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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PARAMETER	VALUE
Software License Type	node locked perpetual
User Supplied	monitor and video cable
Form Factor	AXIe modular system
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Brand Lineage	Hewlett Packard Agilent Keysight
Notes	
From Keysight Memory Protocol Solution Bundles data sheet U4970A DDR5 Bundle (M9502A chassis, U4164A logic	

analyzer) hardware/software list. Exact option mix (008 vs 400 Mb depth) is on the bundle configuration ordered.

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.