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**Data Sheet**

August 13, 2026

KEYSIGHT / AGILENT / HP

# Keysight / Agilent / HP 16902A Logic Analyzer Mainframe

Agilent 16902A 6 Slot Logic Analysis System Mainframe with Touch Display The Agilent 16902A is a six-slot 16900-series logic-analysis mainframe with an integrated touch display. It hosts 16950A, 16910A/16911A, 16760A, 16753-16756, 16750-16752, 16740-16742, and 16720 pattern-generator modules. 4 GHz timing zoom (250 ps) with state on the same probes. Standalone or hosted/multiframe. Windows-based 16900 software, LAN, USB, and GPIB-class control. Sibling 16900A is six-slot without the integrated display; 16903A is three-slot with display. The Agilent 16902A is a six-slot 16900-series logic-analysis mainframe with an integrated touch display. It hosts 16950A, 16910A/16911A, 16760A, 16753-16756, 16750-16752, 16740-16742, and 16720 pattern-generator modules. 4 GHz timing zoom (250 ps) with state on the same probes. Standalone or hosted/multiframe. Windows-based 16900 software, LAN, USB, and GPIB-class control. Sibling 16900A is six-slot without the integrated display; 16903A is three-slot with display. Modular 4 GHz timing / 600 MHz state benches

**MODEL****Keysight / Agilent / HP 16902A****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****16902A****LISTING**<https://aumictechlabs.com/products/16902a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Keysight 16902A Logic Analyzer Mainframe is a modular instrument platform engineered for digital system analysis and debugging. This configurable mainframe accommodates specialized

measurement modules and delivers deep memory, high sampling rates, and advanced triggering to capture and analyze complex digital signals. Engineers deploy it for embedded systems development, hardware validation, and digital circuit design across diverse processor and bus architectures. Technical Specifications System Architecture: Modular mainframe form factor with configurable module slots Integrated high-resolution display for real-time signal visualization Proprietary high-speed interconnect for module integration Performance Capabilities: Configurable deep memory for extended signal sequence capture High-speed sampling to accurately resolve fast digital transitions Advanced triggering: complex pattern, state, and timing triggers Integrated analysis tools for signal integrity, timing measurements, and protocol decoding (module-dependent) Interfaces and Connectivity: Standard interfaces for data export and remote control (configuration-dependent) Support for external storage and peripherals for data logging Physical Characteristics: Standard rack-mountable or benchtop configurations available AC power operation with voltage and frequency per user manual Designed for controlled laboratory environments Key Features Pattern and state-based triggering isolates specific events without manual searching Module flexibility enables custom configurations for ARM, MIPS, x86 microprocessors, DSPs, and standard buses (PCI, USB, DDR) Modular design scales measurement capacity as project requirements evolve Typical Applications Embedded systems development, microprocessor validation, bus protocol analysis, custom interface debugging, and digital circuit characterization. Compatibility & Integration The 16902A accepts a wide range of Keysight logic analyzer modules. Support includes ARM, MIPS, and x86 processors; DSPs; standard buses such as PCI, USB, and DDR; and custom interfaces via appropriate probing solutions.

## 16902A Characteristics / Specifications

| PARAMETER            | VALUE                                           |
|----------------------|-------------------------------------------------|
| Model                | 16902A                                          |
| Manufacturer         | Agilent / Keysight                              |
| Instrument Type      | Logic analysis system mainframe                 |
| Series               | 16900                                           |
| Alias                | 16902A; Agilent 16902A                          |
| Module Slots         | 6                                               |
| Display              | integrated touch                                |
| Related 16900A       | 6 slot modular no integrated display            |
| Related 16903A       | 3 slot with touch display                       |
| Hosted Mode          | yes                                             |
| Multiframe           | yes                                             |
| Timing Zoom Host     | 4 GHz (250 ps) 64 k depth on compatible modules |
| Max Channels Example | 340 with five 16950A (68 ch each)               |
| Compatible 16950A    | 68 ch, 4 GHz zoom, 600 MHz state                |
| Compatible 16910A    | 102 ch, 4 GHz, 450 MHz state class              |
| Compatible 16911A    | 68 ch, 4 GHz, 450 MHz state class               |
| Pattern Generator    | 16720 class                                     |
| OS Class             | Windows 16900 application                       |
| Network              | LAN                                             |
| USB                  | yes                                             |
| Remote               | hosted PC and LAN                               |
| Form                 | benchtop 6-slot mainframe with display          |
| Status               | Agilent 16900 series                            |
| Power                | 16902A mains per rear label                     |
| Cooling              | 16900 airflow                                   |

| PARAMETER      | VALUE                                                                                                                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation   | 16900-series modules                                                                                                                                                                                                                      |
| Use            | host logic-analysis modules                                                                                                                                                                                                               |
| Identification | 16902A                                                                                                                                                                                                                                    |
| Duty           | continuous                                                                                                                                                                                                                                |
| Calibration    | module cal in 16900 software Notes Specs from Agilent 16900-series mainframe data (16902A 6-slot with touch display; 16950A 68 ch 4 GHz/600 MHz). Confirm installed modules and memory options. Mainframe has no state/timing of its own. |

# 16902A Specifications

| PARAMETER                       | VALUE                                        |
|---------------------------------|----------------------------------------------|
| Applications                    | Modular 4 GHz timing / 600 MHz state benches |
| Key Features                    | 6 slots; integrated touch display            |
| Standalone or hosted/multiframe | 16900-series Windows mainframe               |
| Technical Specifications        | Model: 16902A                                |

# 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                | 16902A                                          |
| Manufacturer         | Agilent / Keysight                              |
| Instrument Type      | Logic analysis system mainframe                 |
| Specifications       |                                                 |
| PARAMETER            | VALUE                                           |
| Series               | 16900                                           |
| Alias                | 16902A; Agilent 16902A                          |
| Module Slots         | 6                                               |
| Specifications       |                                                 |
| PARAMETER            | VALUE                                           |
| Display              | integrated touch                                |
| Related 16900A       | 6 slot modular no integrated display            |
| Related 16903A       | 3 slot with touch display                       |
| Specifications       |                                                 |
| PARAMETER            | VALUE                                           |
| Hosted Mode          | yes                                             |
| Multiframe           | yes                                             |
| Timing Zoom Host     | 4 GHz (250 ps) 64 k depth on compatible modules |
| Specifications       |                                                 |
| PARAMETER            | VALUE                                           |
| Max Channels Example | 340 with five 16950A (68 ch each)               |
| Compatible 16950A    | 68 ch, 4 GHz zoom, 600 MHz state                |
| Compatible 16910A    | 102 ch, 4 GHz, 450 MHz state class              |

### Specifications

| PARAMETER         | VALUE                             |
|-------------------|-----------------------------------|
| Compatible 16911A | 68 ch, 4 GHz, 450 MHz state class |
| Pattern Generator | 16720 class                       |
| OS Class          | Windows 16900 application         |

### Specifications

| PARAMETER | VALUE             |
|-----------|-------------------|
| Network   | LAN               |
| USB       | yes               |
| Remote    | hosted PC and LAN |

### Specifications

| PARAMETER | VALUE                                  |
|-----------|----------------------------------------|
| Form      | benchtop 6-slot mainframe with display |
| Status    | Agilent 16900 series                   |
| Power     | 16902A mains per rear label            |

### Specifications

| PARAMETER    | VALUE                       |
|--------------|-----------------------------|
| Cooling      | 16900 airflow               |
| Installation | 16900-series modules        |
| Use          | host logic-analysis modules |

### Specifications

| PARAMETER      | VALUE                        |
|----------------|------------------------------|
| Identification | 16902A                       |
| Duty           | continuous                   |
| Calibration    | module cal in 16900 software |

#### Notes

Specs from Agilent 16900-series mainframe data (16902A 6-slot with touch display; 16950A 68 ch 4 GHz/600 MHz). Confirm installed modules and memory options. Mainframe has no state/timing of its own.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<https://aumictechlabs.com>

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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.