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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 16903A Logic Analysis System

Keysight (Agilent) 16903A Logic Analysis System Mainframe The Agilent/Keysight 16903A is a 3-slot modular logic analysis system mainframe in the 16900 Series. It integrates a 12.1-inch color touch-screen display (800 × 600), Windows-based Agilent Logic Analyzer software, and PCI expansion (1 full-profile + 1 low-profile). Measurement modules (state/timing analyzers and pattern generators) install in the three slots; Multiframe Pro is not supported on the 16903A (unlike 6-slot siblings). Modular logic analysis for multi-bus digital debug; hosted state/timing with touch UI; pattern-generator stimulus when a 16720A-class module is installed; lab systems needing fewer slots than 16900A/16902A. The Agilent/Keysight 16903A is a 3-slot modular logic analysis system mainframe in the 16900 Series. It integrates a 12.1-inch color touch-screen display (800 × 600), Windows-based Agilent Logic Analyzer software, and PCI expansion (1 full-profile + 1 low-profile). Measurement modules (state/timing analyzers and pattern generators) install in the three slots; Multiframe Pro is not supported on the 16903A (unlike 6-slot siblings). Modular logic analysis for multi-bus digital debug; hosted state/timing with touch UI; pattern-generator stimulus when a 16720A-class module is installed; lab systems needing fewer slots than 16900A/16902A.



MODEL

**Keysight / Agilent
16903A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16903A

LISTING

<https://aumictechlabs.com/products/16903a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight (Agilent) 16903A is a modular logic analysis system mainframe designed for system-level debugging of digital designs. Its 3-slot architecture accepts customizable measurement modules to reach up to 204 channels, depending on configuration. The platform features a 12.1-inch color LCD touch screen (800 × 600 resolution) running Windows XP Pro, with multiple data views including waveform, listing, packet viewer, source code, and compare displays. Operators control the system via dedicated hotkeys, knobs, keyboard, and mouse input.

Technical Specifications

Mainframe Slots: 3 modules
Maximum Channels: 204 (module-dependent)
Display: 12.1-inch color LCD, 800 × 600 resolution, touch-screen interface
Operating System: Windows XP Pro
External Monitors: Up to 4 monitors at 1600 × 1200 resolution
Power Requirements: 115/230 V AC, 48–66 Hz, 900 W max
Weight: 14.5 kg (net); 23.2 kg (shipping); ≈0.9 kg per installed module
Operating Temperature: 0 °C to 50 °C
Storage Temperature: –40 °C to +75 °C
Altitude Rating: To 3000 m
Humidity: 8–80% relative humidity at 40 °C (non-condensing)

Key Features

Trigger Output: VOH 2.0 V min., VOL 0.5 V max.; pulse width 80–160 ns; LVTTTL (3.3 V logic) threshold; BNC connector with 50 Ω recommended termination
Connectivity: 10/100 BaseT LAN (gigabit available via E5860A or Option 014); dual USB 1.1; parallel and serial ports; external video output
PCI Expansion: 1 full-profile slot, 1 low-profile slot
Target Control Port: 8 TTL-level signals with tri-state/high-impedance output disabled
Calibration and Clock: Dedicated BNC inputs for external clock and calibration signals
Oscilloscope Integration: View Scope feature enables time-correlated waveform display with Keysight oscilloscopes

Typical Applications

System-level digital design validation, embedded system debugging, protocol analysis, and multi-instrument measurement correlation.

Compatibility & Integration

Modular architecture supports custom probe and measurement module configurations. LAN connectivity enables remote operation and data transfer. Multi-monitor support accommodates large-scale analysis workflows.

Features & description

From manufacturer datasheet

Built-in Display Resolution: 800 × 600

External Monitors Max: 4 External Monitor Resolution Max: 1600 × 1200 with PCI video card PCI Full-Profile Slots: 1 PCI Low-Profile Slots: 1 System Memory Max: 512 MB PC133 SDRAM Host Software: Windows-based Agilent Logic Analyzer AC Line Voltage: 115/230 V AC Line Frequency: 48 to 66 Hz Power Consumption Max: 900 W Net Weight Max: 14.5 kg Shipping Weight Max: 23.2 kg Operating Temperature: 0 to 50 C Operating Altitude Max: 3000 m Operating Humidity: 8 to 80% RH at 40 C Minimum Frame Software: 02.00 or higher Standard Accessories: PS/2 keyboard; PS/2 mouse; 10-conductor flying-lead cable Supported Module Examples: 16910A; 16911A; 16950A; 16950B; 16951B; 16760A; 16720A Notes Specs from Agilent 16900 Series mainframe data sheet and installation/service guides. Listing is typically mainframe-only—confirm installed measurement modules and software revision separately.

16903A Characteristics / Specifications

PARAMETER	VALUE
Model	16903A
Manufacturer	Keysight Technologies
Instrument Type	Logic Analysis System Mainframe
Product Family	16900 Series
Measurement Module Slots	3
Multiframe Pro Support	No
External Monitors Max	4
External Monitor Resolution Max	1600 × 1200 with PCI video card
System Memory Max	512 MB PC133 SDRAM
Host Software	Windows-based Agilent Logic Analyzer
AC Line Voltage	115/230 V
AC Line Frequency	48 to 66 Hz
Power Consumption Max	900 W
Net Weight Max	14.5 kg
Shipping Weight Max	23.2 kg
Operating Temperature	0 to 50 C
Operating Altitude Max	3000 m
Operating Humidity	8 to 80% RH at 40 C
Minimum Frame Software	02.00 or higher
Standard Accessories	PS/2 keyboard; PS/2 mouse; 10-conductor flying-lead cable
Supported Module Examples	16910A; 16911A; 16950A; 16950B; 16951B; 16760A; 16720A Notes Specs from Agilent 16900 Series mainframe data sheet and installation/service guides. Listing is typically mainframe-only—confirm installed measurement modules and software revision separately.
PCI expansion	1 full-profile + 1 low-profile
Humidity	8 to 80% RH at 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	8 to 80% RH at 40 C
Operating Altitude Max	3000 m
Operating Humidity	8 to 80% RH at 40 C
Minimum Frame Software	02.00 or higher
Standard Accessories	PS/2 keyboard; PS/2 mouse; 10-conductor flying-lead cable
Supported Module Examples	16910A; 16911A; 16950A; 16950B; 16951B; 16760A; 16720A Notes Specs from Agilent 16900 Series mainframe data sheet and installation/service guides. Listing is typically mainframe-only—confirm installed measurement modules and software revision separately.

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	16903A
Manufacturer	Keysight Technologies
Instrument Type	Logic Analysis System Mainframe

Specifications

PARAMETER	VALUE
Product Family	16900 Series
Measurement Module Slots	3
Multiframe Pro Support	No

Built-in Display: 12.1-inch color touch screen

Built-in Display Resolution: 800 x 600

External Monitors Max: 4

External Monitor Resolution Max: 1600 x 1200 with PCI video card

PCI Full-Profile Slots: 1

PCI Low-Profile Slots: 1

Specifications

PARAMETER	VALUE
System Memory Max	512 MB PC133 SDRAM
Host Software	Windows-based Agilent Logic Analyzer
AC Line Voltage	115/230 V

Specifications

PARAMETER	VALUE
AC Line Frequency	48 to 66 Hz
Power Consumption Max	900 W
Net Weight Max	14.5 kg

Specifications

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Specifications

PARAMETER	VALUE
Operating Humidity	8 to 80% RH at 40 C
Minimum Frame Software	02.00 or higher
Standard Accessories	PS/2 keyboard; PS/2 mouse; 10-conductor flying-lead cable

Supported Module Examples: 16910A; 16911A; 16950A; 16950B; 16951B; 16760A; 16720A

Notes

Specs from Agilent 16900 Series mainframe data sheet and installation/service guides. Listing is typically mainframe-only-confirm installed measurement modules and software revision separately.

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

788 S 500 E, Pleasant Grove, UT 84062
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.