

KEYSIGHT TECHNOLOGIES (AGILENT HP)

16902B

The Keysight (formerly Agilent) 16902B is a high-performance, 6-slot modular logic analysis system mainframe. Designed for system-level debugging of digital designs, this expandable mainframe supports a wide range of timing/state analyzer and pattern generator modules. It features a 15-inch color touch screen, a Windows-based user interface, standard Gigabit LAN, and multi-frame connectivity for complex, multi-bus digital analysis.

SPECIFICATIONS

General

Display	15-inch (38.1 cm) color touch screen display, 1024 × 768 resolution
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Physical

Power Supply	100 - 240 V AC (±10%), 50/60 Hz, 615 W maximum
Operating Temperature	0 to +40 °C °C
Dimensions (W×H×D)	426 mm × 397 mm × 432 mm mm
Weight	16.3 kg (empty mainframe) kg
Side Cooling Clearance	50 mm
Rear Cooling Clearance	76 mm

System and Hardware Architecture

Mainframe Slot Capacity	6 measurement module slots
Supported Module Types	Timing/state logic analyzers and pattern generators (16900 Series compatible)
Expansion Bus Options	1 x PCI Express x1 slot
Inter-module Bus Triggering Support	Yes, enables cross-module triggering and time-correlated measurements across all modules
Multi-frame Connection Support	Yes, frames can be used individually or connected together for complex, multi-bus analysis
Storage Options	Removable hard drive standard (optional additional removable hard drive supported)
User Control Options	Dedicated front-panel hot keys, knob, keyboard, and mouse support
Installed Operating System	Windows-based user interface

Display and User Interface

Display Type	Color Touch Screen LCD
Display Size	15-inch (38.1 cm) diagonal
Display Resolution	1024 x 768 pixels (XGA)
Touch Screen Capability	Yes
External Display Output Type	VGA (15-pin D-sub external video)
Standard Data Views	Waveform/chart, listing, packet viewer, source code, compare

Connectivity and External I/O

LAN Interface Speed	10/100/1000 Base-T Gigabit Ethernet
USB Ports	6 x USB 2.0 (2 front, 4 rear)
External Trigger Input	BNC (Trigger In)
External Trigger Output	BNC (Trigger Out)
Clock Input	BNC (Clock In)

Software and Analysis Tools

View Scope Integration	Yes, integrates time-correlated logic analyzer & oscilloscope waveforms into a single waveform display
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Power and Mechanical

Input Voltage Range	100 V to 240 V AC
Input Frequency Range	50/60 Hz
Maximum Power Consumption	615 W
Form Factor	6-slot modular benchtop mainframe

Environmental and Safety Compliance

Operating Temperature Range	0 °C to +40 °C
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System Architecture

Processor	Intel Core 2 Duo 3.0 GHz
System Memory	4 GB DDR3 RAM
Expansion Slots	1 x PCI Express x1

Inputs & Outputs

Target Control Port	10-pin connector
Audio Connections	3.5 mm mini-jack ports (Line-In, Line-Out, Mic-In)

Environmental

Storage Temperature Range	-40 °C to +75 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-Operating Altitude	Up to 15,300 m (50,000 ft)
Operating Vibration	0.3 g (random), 5 Hz to 500 Hz
Non-Operating Vibration	2.23 g (random), 5 Hz to 500 Hz
Operating Humidity Range	20% to 80% RH (non-condensing)

Compliance

Safety Standards	IEC 61010-1, EN 61010-1, UL 61010-1, CSA C22.2 No. 61010-1
EMC Standards	IEC 61326-1, EN 61326-1, ICES-001, AS/NZS CISPR 11

Software & Control

Compatible Software	Agilent/Keysight Logic and Protocol Analyzer software
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TECHNOLOGY

Modular Logic Analyzer Mainframe

APPLICATIONS

Digital system-level debugging, multi-bus analysis, state/timing analysis, and pattern generation

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