

KEYSIGHT TECHNOLOGIES (AGILENT HP)

16802A

The Agilent 16802A is a high-performance 68-channel portable logic analyzer designed for digital debug and hardware validation. It features a large 15-inch color display (with touchscreen support), up to 4 GHz timing speed (via timing zoom), and state speed up to 450 MHz depending on configuration. Users can upgrade memory depths from 1 M to 32 M to match growing design requirements.

SPECIFICATIONS

Logic Analysis Channels

Total Logic Analysis Channels	68
Data Channels	64
Clock and Qualifier Channels	4
Probing Compatibility	40-pin connector logic analyzer probes

State Analysis Performance

Maximum State Clock Speed	250 MHz (standard), 450 MHz (with Option 450)
Maximum State Data Rate	250 Mb/s (standard), 500 Mb/s (with Option 450)
State Clocks	4

Timing Analysis Performance

High-Speed Timing Zoom Sample Rate	4.0 GHz (250 ps resolution)
High-Speed Timing Zoom Memory Depth	64K samples per channel

Host Controller & Software

Operating System	Windows XP Professional (original) / Windows Embedded Standard 7 (updated)
Storage Device	Internal HDD (>= 80 GB)
Supported Analysis Software	Keysight Logic Analyzer application software, View Scope
FPGA Dynamic Probe Support	Xilinx and Altera FPGAs

Connectivity & External Interfaces

LAN Port	10/100/1000 Base-T (Gigabit Ethernet)
USB Ports	6 USB 2.0 ports (2 front, 4 rear)
External Video Port	15-pin VGA D-sub

Environmental & Physical

Operating Altitude	Up to 3,000 meters (10,000 feet)
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Environmental

Non-Operating Altitude	Up to 15,300 m (50,000 ft)
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Software & Control

File Export Formats	XML, CSV (ASCII), binary (.ALB)
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Channels

Number of Measurement Pods	4
Channels per Pod	17

Interfaces

LAN Port Interface Speed	10/100/1000 Base-T (Gigabit Ethernet)
External Display Port Connector	15-pin D-sub (VGA)
Trigger Input Connector Type	BNC
Trigger Output Connector Type	BNC
Trigger In Input Impedance	4 kΩ (nominal)
Trigger Out Output Impedance	50 Ω (nominal)

TECHNOLOGY

Digital Logic Analysis

APPLICATIONS

Digital system debug, timing validation, hardware-software integration

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.