

**Aumictech**

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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 16500L

HP Agilent 16500L Logic Analysis System Mainframe LAN Class The HP 16500L identifies the 16500-series logic-analysis system in LAN-capable / later-mainframe configurations of the 16500A/B/C family. OEM 16500C literature lists a modular logic-analyzer mainframe with five card slots, color CRT, HP-IB and RS-232, and LAN option on 16500C; 16500L denotes the LAN-class 16500 system used with 16510/16540/16550 acquisition cards. State/timing analysis of processors, buses, and FPGAs using 16500-series plug-in cards. The HP 16500L identifies the 16500-series logic-analysis system in LAN-capable / later-mainframe configurations of the 16500A/B/C family. OEM 16500C literature lists a modular logic-analyzer mainframe with five card slots, color CRT, HP-IB and RS-232, and LAN option on 16500C; 16500L denotes the LAN-class 16500 system used with 16510/16540/16550 acquisition cards. State/timing analysis of processors, buses, and FPGAs using 16500-series plug-in cards. Instrument Type: Logic analysis system mainframe



MODEL

**Agilent / Keysight
16500L**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16500L

LISTING

<https://aumictechlabs.com/products/16500L-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 16500L is an interface module that extends the capabilities of the HP 16500B logic analyzer mainframe, providing Ethernet LAN connectivity for remote operation and control. It enables expansion of the modular measurement platform through connection to the HP 16501A expansion frame, allowing centralized management of multiple measurement modules via a

networked computer interface. Technical Specifications 9-inch color touchscreen display Five card slots in mainframe (expandable to nine total slots with HP 16501A expansion frame) Ethernet LAN interface with 15-pin AUI connector Network media support: 10Base2 (coaxial cable) and 10Base-T via media attachment units Legacy interfaces: HP-IB (IEEE 488) and RS-232-C Modular slot configuration accommodates state/timing cards, pattern generator cards, and digitizing oscilloscope cards Key Features Remote viewing and control via X Window System software over Ethernet LAN Time-correlated measurements between modules via intermodule bus Pop-up menu interface with color graphics for measurement setup Optional mouse and keyboard support for navigation and data entry Expansion capability linking 16500B mainframe to 16501A expansion frame for increased module capacity Typical Applications Microprocessor debug and hardware verification Software performance analysis Complex digital system characterization Multi-module time-correlated measurement capture Compatibility & Integration The 16500L interface module connects HP 16500B logic analyzer mainframes with HP 16501A expansion frames. It supports a wide array of specialized measurement modules including state/timing analyzers, pattern generators, and digitizing oscilloscope cards. Network integration enables remote operation from any X Window System-compatible workstation over 10Base2 or 10Base-T Ethernet media.

16500L Characteristics / Specifications

PARAMETER	VALUE
Model	16500L
Instrument Type	Logic analysis system mainframe
Family	HP 16500
Card Slots	5 class (16500A/B/C)
Display	color CRT on 16500C class
Buses	HP-IB and RS-232
Network	LAN class (16500L / 16500C LAN)
Related Cards	16510A, 16540D, 16550A
Manufacturer	HP Agilent Keysight
Form Factor	benchtop/rack logic analyzer mainframe
Literature	HP 16500C/16500L logic analysis system
Operating Temperature Class	0 to 55 C
Line Power Class	100/120/220/240 Vac
Line Frequency Class	48 to 66 Hz
Programming	HP-IB
Use Case	modular state and timing analysis
Mass Storage	16500 floppy/hard disk class
Trigger	system trigger across modules
Clock	analyzer state clock from cards
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits
Operating temperature	Class: 0 to 55 C

16500L Specifications

PARAMETER	VALUE
Applications	State/timing analysis of processors, buses, and FPGAs using 16500-series plug-in cards.
Key Features	16500 modular mainframe
Color display	HP-IB RS-232 and LAN class
Technical Specifications	Model: 16500L

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
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Operating Temperature Class	0 to 55 C
Line Power Class	100/120/220/240 Vac
Line Frequency Class	48 to 66 Hz
Programming	HP-IB
Use Case	modular state and timing analysis
Mass Storage	16500 floppy/hard disk class
Trigger	system trigger across modules
Clock	analyzer state clock from cards
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits Notes Identity as 16500-series logic-analysis mainframe with LAN-class 16500L designation from HP 16500C system literature. Acquisition speed and channel count are those of the installed 165xx cards.

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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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.