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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 16700B Logic Analysis System

HP / Agilent 16700B Logic Analysis System The HP/Agilent 16700B is a modular logic analysis system mainframe for complex digital debug. It combines state/timing analysis, oscilloscope, pattern generator, and emulation modules in one chassis with five measurement slots and two emulation slots. Enhanced B-series hardware includes a PA-7300LC 150 MHz processor, 128 MB system RAM standard (256 MB with Option 003), 18 GB hard disk, 40X CD-ROM, and 100BaseT-X LAN. External monitors to 1280×1024 or 1600×1200 with Option 003 are supported. The HP/Agilent 16700B is a modular logic analysis system mainframe for complex digital debug. It combines state/timing analysis, oscilloscope, pattern generator, and emulation modules in one chassis with five measurement slots and two emulation slots. Enhanced B-series hardware includes a PA-7300LC 150 MHz processor, 128 MB system RAM standard (256 MB with Option 003), 18 GB hard disk, 40X CD-ROM, and 100BaseT-X LAN. External monitors to 1280×1024 or 1600×1200 with Option 003 are supported.



MODEL

**HP / Agilent
16700B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16700B

LISTING

<https://aumictechlabs.com/products/16700b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 16700B Logic Analysis System is a modular platform for debugging and validation of complex digital systems. This five-slot measurement module chassis supports deep memory capture and high-speed timing analysis across a broad range of microprocessors and bus protocols. The system expands to ten total module slots with an optional 16701B Expansion Frame,

enabling scalable test configurations. An 18 GB hard disk and built-in 40x CD-ROM provide onboard storage, while 128 MB standard RAM (upgradeable to 256 MB) supports data processing. The 16700B connects to external 1280×1024 VGA monitors; the integrated 16702B variant includes a 12.1" 800×600 LCD touch panel. Network connectivity via 10/100 BaseT LAN and dual target control ports with TTL-compatible logic levels enable real-time system interaction. Port In accepts TTL, ECL, or user-defined levels across a -6 V to +6 V input range; Port Out delivers 3 V TTL-compatible signals into 50 Ω loads. Both latched and pulsed output modes are supported, with pulse widths from 66 ns to 143 ns. The instrument operates from 115 V or 230 V (48–66 Hz), consuming 610 W maximum. System software version A.02.70.00 or higher is recommended. BenchLink XL post-processing integrates captured trace data directly into Microsoft Excel for analysis.

Technical Specifications

Measurement Module Slots:	5 (expandable to 10 with 16701B frame)
Accessory Slots:	1 (emulation or Multiframe module)
Internal Storage:	18 GB formatted HDD; 40x CD-ROM drive
System RAM:	128 MB standard; 256 MB with Option 003
Display Options:	1280×1024 VGA (external); 1600×1200 with Option 003; 16702B includes 12.1" 800×600 LCD touch panel
Network:	10/100 BaseT LAN auto-sensing
Power:	610 W (16700B); 545 W (16701B); 630 W (16702B); 115/230 V auto-select; 48–66 Hz
Weight:	16700B: 12.7 kg; 16701B: 10.4 kg; 16702B: 15.2 kg; modules add 0.9 kg each
Operating Temperature:	0 °C to 50 °C

Key Features

Target Control Port: 3 V TTL-compatible levels; latched and pulsed modes (66 ns–143 ns pulse width); open collector tri-state sink to 12 mA

Port In: TTL/ECL/user-defined; 4 kΩ input impedance; -6 V to +6 V range

Port Out: 3 V TTL into 50 Ω; latched and pulsed functions

Measurement backplane via PCI and interface board architecture

100-pin shielded expansion cable connects mainframe to 16701A/B frame

Typical Applications

Digital hardware debugging, bus protocol analysis, microprocessor validation, real-time system integration testing, and trace capture for post-analysis workflows.

Compatibility & Integration

System software A.02.70.00 or higher required. BenchLink XL enables Microsoft Excel-based post-processing of captured data.

Features & description

From manufacturer datasheet

Features

- Five measurement module slots; two emulation slots

Applications

- Multi-bus digital system turn-on and debug

16700B Characteristics / Specifications

PARAMETER	VALUE
Model	16700B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Logic Analysis System Mainframe
Alias	HP 16700B; Agilent 16700B
CPU	PA-7300LC PA-RISC 150 MHz
L1 cache	64 KB on-chip
System RAM standard	128 MB
System RAM Option 0	256 MB
Video RAM Option 0	4 MB
Hard disk	18 GB class
Optical drive	40X CD-ROM
LAN	100BaseT-X
Measurement slots	5
Emulation slots	2
External monitor standard class	up to 1280 × 1024
External monitor Option 0	up to 1600 × 1200
Display views	waveform listing histogram chart compare
Compatible module families	16750/16753/16760 state-timing class
Pattern generator class	16720A up to 300 MVectors/s
Form	modular logic analysis mainframe Notes Specs from Agilent 16700B/16702B product overview and OpenPA hardware summaries. Measurement performance depends on installed modules—confirm installed cards and Option 003 on the unit.

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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PARAMETER	VALUE
Model	16700B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Logic Analysis System Mainframe
Specifications	
PARAMETER	VALUE
Alias	HP 16700B; Agilent 16700B
CPU	PA-7300LC PA-RISC 150 MHz
L1 cache	64 KB on-chip
Specifications	
PARAMETER	VALUE
System RAM standard	128 MB
System RAM Option 003	256 MB
Video RAM Option 003	4 MB
Specifications	
PARAMETER	VALUE
Hard disk	18 GB class
Optical drive	40X CD-ROM
LAN	100BaseT-X
Specifications	
PARAMETER	VALUE
Measurement slots	5
Emulation slots	2
External monitor standard class	up to 1280 x 1024

External monitor Option 003: up to 1600 x 1200

Display views: waveform listing histogram chart compare

Option 001: 17-inch 1280 x 1024 monitor

Option 008: 18 GB external data drive

Option 009: external removable hard drive

Option 012: multiframe module

Specifications

PARAMETER	VALUE
Compatible module families	16750/16753/16760 state-timing class
Pattern generator class	16720A up to 300 MVectors/s
Form	modular logic analysis mainframe

Notes

Specs from Agilent 16700B/16702B product overview and OpenPA hardware summaries. Measurement performance depends on installed modules-confirm installed cards and Option 003 on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 003	are supported.
Option 012	for expanded systems

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

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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.