

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 1651B

Agilent Keysight 1651B Logic Analyzer 32 Channel The HP 1651B is the 32-channel B-revision of the 1650-series logic analyzer. OEM 1650B/1651B literature lists 32 channels, 35 MHz state, and 100 MHz timing. Microprocessor and digital timing/state debug on HP 1650-series benchtop analyzers. Instrument Type: Standalone logic analyzer The HP 1651B is the 32-channel B-revision of the 1650-series logic analyzer. OEM 1650B/1651B literature lists 32 channels, 35 MHz state, and 100 MHz timing. Microprocessor and digital timing/state debug on HP 1650-series benchtop analyzers. Instrument Type: Standalone logic analyzer Display: CRT state/timing listings and waveforms



MODEL

**Agilent / Keysight
1651B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1651B

LISTING

[https://aumictechlabs.c
om/products/1651b-2/](https://aumictechlabs.com/products/1651b-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 1651B is a 32-channel logic analyzer engineered for digital circuit debugging, validation, and signal characterization. It delivers simultaneous state and timing analysis with state acquisition at 25 MHz and timing analysis at 100 MHz, supported by 1 Kbit/channel memory depth. The instrument provides versatile triggering including glitch detection across all channels and external arming capability, enabling capture of complex circuit behavior and transient events. Technical Specifications Channels: 32 State Analysis Speed: 25 MHz Timing Analysis Speed: 100 MHz Memory Depth: 1 Kbit/channel Analysis Modes: Simultaneous state/state, simultaneous state/timing, transitional timing Triggering: Glitch detection on all channels, external

arming trigger Input Voltage Range: ± 10 V about threshold; maximum ± 40 V peak Minimum Input Voltage Swing: 600 mV peak-to-peak Input Threshold Accuracy: ± 150 mV (-2.0 V to $+2.0$ V); ± 300 mV (-9.9 V to -2.1 V and $+2.1$ V to $+9.9$ V) Threshold Range: -9.9 V to $+9.9$ V in 0.1 V increments Setup Time: 20 ns Hold Time: 5 ns Minimum Input Overdrive: 250 mV or 30% of input amplitude, whichever is greaterKey Features 9-inch white-phosphor CRT display with panel keyboard and RPG knob Integrated 3.5-inch disk drive for setup storage and data retrieval Lightweight passive probes with woven cable (40-pin connector, 17 signal lines, 17 return lines, 2 power lines, 2 power ground lines) Pod-based probe architecture supporting individual threshold definition for pods 1, 2, and 3; shared threshold for pods 4 and 5 RS-232-C and HP-IB connectivity for external peripherals and controller communicationTypical Applications Digital circuit debugging, timing characterization, protocol analysis, and transient event capture in development and production environments.Compatibility & Integration Successor to the HP 1650A Series. Interfaces via RS-232-C and HP-IB for printer hardcopy output and remote instrument control.

1651B Characteristics / Specifications

PARAMETER	VALUE
Model	1651B
Instrument Type	Standalone logic analyzer
Series Family	HP 1650/1651/1652/1653
Logic Channels	32
State Speed	35 MHz
Timing Speed	100 MHz
Form Factor	benchtop logic analyzer
Display	CRT state/timing listings and waveforms
Storage	3.5 inch floppy class of 1650-series
Remote Class	HP-IB on optioned 1650-series units
Trigger	pattern, edge, and sequence triggering class
Probing	1650-series pod and grabber leads
Application	8/16-bit microprocessor debug
User Interface	dedicated keypad and CRT menus
Documentation	HP 1650/1651/1653 operating and service literature
Operating Environment	laboratory ambient per 165x manual
Power	AC mains operated
Clocking	state clocks and qualifiers class of 1650-series
Glitch	glitch capture class on timing analyzer
Compare	trace compare class
Print	HP-IB printer support class
Oscilloscope	not included (see 1653B)
Sibling 1650B	80 channels, 35 MHz state, 100 MHz timing
Predecessor	1651A 25 MHz state

1651B Specifications

PARAMETER	VALUE
Agilent Keysight 1651B Logic Analyzer 32 Channel	Overview
Applications	Microprocessor and digital timing/state debug on HP 1650-series benchtop analyzers.
Key Features	32 channels
Technical Specifications	Model: 1651B
Notes	Channel count, 35 MHz state, and 100 MHz timing from HP 1650-series product literature for 1651B. Oscilloscope rows apply only when listed.

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	1651B
Instrument Type	Standalone logic analyzer
Series Family	HP 1650/1651/1652/1653
Logic Channels	32
State Speed	35 MHz
Timing Speed	100 MHz
Form Factor	benchtop logic analyzer
Display	CRT state/timing listings and waveforms
Storage	3.5 inch floppy class of 1650-series
Remote Class	HP-IB on optioned 1650-series units
Trigger	pattern, edge, and sequence triggering class
Probing	1650-series pod and grabber leads
Application	8/16-bit microprocessor debug
User Interface	dedicated keypad and CRT menus
Documentation	HP 1650/1651/1653 operating and service literature
Operating Environment	laboratory ambient per 165x manual
Power	AC mains operated
Clocking	state clocks and qualifiers class of 1650-series
Glitch	glitch capture class on timing analyzer
Compare	trace compare class
Print	HP-IB printer support class
Oscilloscope	not included (see 1653B)
Sibling 1650B	80 channels, 35 MHz state, 100 MHz timing
Predecessor	1651A 25 MHz state

Notes

Channel count, 35 MHz state, and 100 MHz timing from HP 1650-series product literature for 1651B.
Oscilloscope rows apply only when listed.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.