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Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 1680A Standalone Logic Analyzer

Keysight (Agilent) 1680A Standalone Logic Analyzer The Keysight/Agilent 1680A isaWindows-based standalone benchtop logic analyzer with 136 channels (132 data + 4 clock/data). It provides selectable state analysis to 200 MHz, conventional timing to 250 MHz full / 500 MHz half channel, and 512K acquisition memory (1024K half-channel). Large 12.1-inch LCD; sibling 1680AD offers 2M memory. Standalone digital debug; microprocessor/bus inverse assembly; timing and transitional timing capture with Windows UI. The Keysight/Agilent 1680A isaWindows-based standalone benchtop logic analyzer with 136 channels (132 data + 4 clock/data). It provides selectable state analysis to 200 MHz, conventional timing to 250 MHz full / 500 MHz half channel, and 512K acquisition memory (1024K half-channel). Large 12.1-inch LCD; sibling 1680AD offers 2M memory. Standalone digital debug; microprocessor/bus inverse assembly; timing and transitional timing capture with Windows UI.

No photo

MODEL

Keysight 1680A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

1680A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Channels: 136 (132 data + 4 clock/data); half-channel timing uses 68 channels
- Maximum state speed (selectable): 200 MHz; max state clock rate 150 MHz full channel (characteristics)
- Conventional timing: 250 MHz full / 500 MHz half channel
- Memory: 512K full / 1024K half (1680A); 1680AD: 2M / ~4M class
- Threshold accuracy: $\pm(65 \text{ mV} + 1.5\% \text{ of threshold setting})$
- Setup/hold (single clock, single edge): 4.5/-2.0 ns through -2.0/4.5 ns, 100 ps steps
- Display: 12.1-inch LCD; Windows XP Professional OS class
- Storage: 3.5-inch floppy; ~80 GB hard disk
- I/O: Centronics, LAN; IEEE 1394 for hosted control option
- Power: 115/230 Vac autodec; ~140/400 W nominal max (1680A/AD)
- Probe interface: 40-pin logic analyzer probes (ordered separately)
- Family siblings: 1681A (102 ch), 1682A (68 ch), 1683A (34 ch)

1680A Characteristics / Specifications

PARAMETER	VALUE
Model	1680A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Standalone Logic Analyzer
Family	1680 Series
Alias	1680A; Agilent 1680A Digital Capture 136 ch; to 200 MHz state; 250/500 MHz timing; 512K memory Operational Notes Prefer Agilent 1680/90 Series service guide 9018-04941. Do not confuse with 81680A tunable laser. ConfirmAvs AD memory option on the unit.
Maximum state speed (selectable)	200 MHz; max state clock rate 150 MHz full channel (characteristics)
Conventional timing	250 MHz full / 500 MHz half channel
Memory	512K full / 1024K half (1680A); 1680AD: 2M / ~4M class
Threshold accuracy	$\pm(65 \text{ mV} + 1.5\% \text{ of threshold setting})$
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1680A Specifications

PARAMETER	VALUE
Keysight (Agilent) 1680A Standalone Logic Analyzer	Overview
Applications	Standalone digital debug; microprocessor/bus inverse assembly; timing and transitional timing capture with Windows UI.
Key Features	- Channels: 136 (132 data + 4 clock/data); half-channel timing uses 68 channels
Technical Specifications	Model: 1680A
Digital Capture	136 ch; to 200 MHz state; 250/500 MHz timing; 512K memory

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.

characteristics)

- Conventional timing: 250 MHz full / 500 MHz half channel
- Memory: 512K full / 1024K half (1680A); 1680AD: 2M / ~4M class
- Threshold accuracy: ±(65 mV + 1.5% of threshold setting)
- Setup/hold (single clock, single edge): 4.5/~2.0 ns through ~2.0/4.5 ns, 100 ps steps
- Display: 12.1-inch LCD; Windows XP Professional OS class
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Technical Specifications

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PARAMETER	VALUE
Model	1680A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Standalone Logic Analyzer
Family	1680 Series
Alias	1680A; Agilent 1680A

Digital Capture

136 ch; to 200 MHz state; 250/500 MHz timing; 512K memory

Operational Notes

Prefer Agilent 1680/90 Series service guide 9018-04941. Do not confuse with 81680A tunable laser. ConfirmAvs AD memory option on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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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.