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Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 16802A 68-Channel Portable Logic Analyzer

Keysight (Agilent) 16802A 68-Channel Portable Logic Analyzer The Keysight/Agilent 16802A is a 68-channel portable logic analyzer in the 16800 Series (no built-in pattern generator; see 16822A for PG sibling). It provides 4 GHz timing zoom (64 K), up to 1.0 GHz / 500 MHz half/full conventional timing, and state analysis to 250 MHz (Opt 250) or 450 MHz (Opt 500) with selectable deep memory to 32 M. Portable digital debug; FPGA/ASIC validation; bus timing and state analysis at 68-channel width. The Keysight/Agilent 16802A is a 68-channel portable logic analyzer in the 16800 Series (no built-in pattern generator; see 16822A for PG sibling). It provides 4 GHz timing zoom (64 K), up to 1.0 GHz / 500 MHz half/full conventional timing, and state analysis to 250 MHz (Opt 250) or 450 MHz (Opt 500) with selectable deep memory to 32 M. Portable digital debug; FPGA/ASIC validation; bus timing and state analysis at 68-channel width.

No photo

MODEL

Keysight 16802A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

16802A

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

- Logic acquisition channels: 68
- Pattern generator: none (use 16822A for 68-ch + 48-ch PG)
- Timing zoom: 4 GHz (250 ps) with 64 K depth
- Conventional timing: 1.0 GHz / 500 MHz (half / full channel)
- Transitional timing: 500 MHz
- State clock: 250 MHz (Opt 250) or 450 MHz (Opt 500); data rates 250/500 Mb/s class
- Memory depth options: 1 M / 4 M / 16 M / 32 M
- Threshold: -5 V to +5 V in 10 mV increments; eye finder; simultaneous eye diagrams
- Display: 15-inch color (touch optional)
- Probe interface: 40-pin logic analyzer probes (ordered separately)
- Power: 115/230 Vac $\pm 20\%$, 48–66 Hz, ~605–615 W max class
- Weight: ~13.2 kg (28.9 lb) net class

16802A Characteristics / Specifications

PARAMETER	VALUE
Model	16802A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Portable Logic Analyzer
Family	16800 Series
Alias	16802A; Agilent 16802A Digital Capture 68 ch; 4 GHz zoom; 1 GHz/500 MHz timing; 250/450 MHz state options; to 32 M Operational Notes Prefer Agilent 16800 Series data sheet 5989-5062EN / 5989-5063. Confirm memory and state-speed options on the unit.
Logic acquisition channels	68
Pattern generator	none (use 16822A for 68-ch + 48-ch PG)
Timing zoom	4 GHz (250 ps) with 64 K depth
Conventional timing	1.0 GHz / 500 MHz (half / full channel)
Transitional timing	500 MHz
State clock	250 MHz (Opt 250) or 450 MHz (Opt 500); data rates 250/500 Mb/s class
Memory depth options	1 M / 4 M / 16 M / 32 M
Threshold	–5 V to +5 V in 10 mV increments; eye finder; simultaneous eye diagrams
Display	15-inch color (touch optional)
Probe interface	40-pin logic analyzer probes (ordered separately)
Power	115/230 Vac $\pm 20\%$, 48–66 Hz, ~605–615 W max class
Weight	~13.2 kg (28.9 lb) net class

16802A Specifications

PARAMETER	VALUE
Applications	Portable digital debug; FPGA/ASIC validation; bus timing and state analysis at 68-channel width.
Key Features	- Logic acquisition channels: 68
Technical Specifications	Model: 16802A
Digital Capture	68 ch; 4 GHz zoom; 1 GHz/500 MHz timing; 250/450 MHz state options; to 32 M
Operational Notes	Prefer Agilent 16800 Series data sheet 5989-5062EN / 5989-5063. Confirm memory and state-speed options 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

Specifications

PARAMETER	VALUE
Model	16802A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Portable Logic Analyzer
Family	16800 Series
Alias	16802A; Agilent 16802A

Digital Capture

68 ch; 4 GHz zoom; 1 GHz/500 MHz timing; 250/450 MHz state options; to 32 M

Operational Notes

Prefer Agilent 16800 Series data sheet 5989-5062EN / 5989-5063. Confirm memory and state-speed options 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.