

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 16803A 102-Channel Portable Logic Analyzer

Keysight (Agilent) 16803A 102-Channel Portable Logic Analyzer The Keysight/Agilent 16803A is a 102-channel portable logic analyzer in the 16800 Series without built-in pattern generator (see 16823A 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 memory depth options to 32 M. Portable wide-bus digital debug; FPGA validation; state/timing analysis where 102 channels are required without integrated stimulus. The Keysight/Agilent 16803A is a 102-channel portable logic analyzer in the 16800 Series without built-in pattern generator (see 16823A 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 memory depth options to 32 M. Portable wide-bus digital debug; FPGA validation; state/timing analysis where 102 channels are required without integrated stimulus.

No photo

MODEL

Keysight 16803A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

16803A

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: 102 • Pattern generator: none (use 16823A for 102-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 connectors (probes separate) • Power: 115/230 Vac $\pm 20\%$, 48-66 Hz, ~605-615 W max class • Weight: ~13.7 kg (30.3 lb) net class

16803A Characteristics / Specifications

PARAMETER	VALUE
Model	16803A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Portable Logic Analyzer
Family	16800 Series
Alias	16803A; Agilent 16803A Digital Capture 102 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 installed options; probes ordered separately.
Logic acquisition channels	102
Pattern generator	none (use 16823A for 102-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 connectors (probes separate)
Power	115/230 Vac $\pm$ 20%, 48–66 Hz, ~605–615 W max class
Weight	~13.7 kg (30.3 lb) net class

16803A Specifications

PARAMETER	VALUE
Applications	Portable wide-bus digital debug; FPGA validation; state/timing analysis where 102 channels are required without integrated stimulus.
Key Features	- Logic acquisition channels: 102
Technical Specifications	Model: 16803A
Digital Capture	102 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 installed options; probes ordered separately.

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	16803A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Portable Logic Analyzer
Family	16800 Series
Alias	16803A; Agilent 16803A

Digital Capture

102 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 installed options; probes ordered separately.

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

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 7, 2026

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