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Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 16823A 102-Channel Portable Logic Analyzer

Keysight (Agilent) 16823A 102-Channel Portable Logic Analyzer The Keysight/Agilent 16823A is a 102-channel portable logic analyzer in the 16800 Series with built-in 48-channel pattern generator. It combines deep-memory state/timing capture (4 GHz timing zoom, up to 1 GHz/500 MHz half/full conventional timing, state to 250/450 MHz with options) with stimulus capability for stimulus-response debug in one instrument. Digital debug requiring both capture and stimulus; FPGA bring-up; protocol/bus validation with pattern generation; portable lab and production support. The Keysight/Agilent 16823A is a 102-channel portable logic analyzer in the 16800 Series with built-in 48-channel pattern generator. It combines deep-memory state/timing capture (4 GHz timing zoom, up to 1 GHz/500 MHz half/full conventional timing, state to 250/450 MHz with options) with stimulus capability for stimulus-response debug in one instrument. Digital debug requiring both capture and stimulus; FPGA bring-up; protocol/bus validation with pattern generation; portable lab and production support.

No photo

MODEL

Keysight 16823A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

16823A

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 channels: 48 built-in
- 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 on applicable 16800 models); data rates 250/500 Mb/s class
- Memory depth options: 1 M / 4 M / 16 M / 32 M
- Pattern generator: 24 channels at 300 MHz clock or 48 channels at 180 MHz clock; depth to 16 M vectors half-channel / 8 M full-channel class
- PG output styles: TTL/3-state, CMOS, ECL-related drive options per datasheet
- Threshold: -5 V to +5 V in 10 mV steps; 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, 775 W max (16823A class)
- Weight: max net ~14.5 kg (32.0 lb)

16823A Characteristics / Specifications

PARAMETER	VALUE
Model	16823A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Portable Logic Analyzer with Pattern Generator
Family	16800 Series
Alias	16823A; Agilent 16823A Digital Capture / Stimulus 102 ch LA + 48 ch PG; 4 GHz zoom; to 32 M memory; 250/450 MHz state options Operational Notes Prefer Agilent 16800 Series data sheet 5989-5062EN. Confirm memory and state-speed options; probes are ordered separately.
Logic acquisition channels	102
Pattern generator channels	48 built-in
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 on applicable 16800 models); data rates 250/500 Mb/s class
Memory depth options	1 M / 4 M / 16 M / 32 M
Pattern generator	24 channels at 300 MHz clock or 48 channels at 180 MHz clock; depth to 16 M vectors half-channel / 8 M full-channel class
PG output styles	TTL/3-state, CMOS, ECL-related drive options per datasheet
Threshold	–5 V to +5 V in 10 mV steps; 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, 775 W max (16823A class)
Weight	max net ~14.5 kg (32.0 lb)

16823A Specifications

PARAMETER	VALUE
Key Features	- Logic acquisition channels: 102
Technical Specifications	Model: 16823A
Digital Capture / Stimulus	102 ch LA + 48 ch PG; 4 GHz zoom; to 32 M memory; 250/450 MHz state options
Operational Notes	Prefer Agilent 16800 Series data sheet 5989-5062EN. Confirm memory and state-speed options; probes are 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	16823A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Portable Logic Analyzer with Pattern Generator
Family	16800 Series
Alias	16823A; Agilent 16823A

Digital Capture / Stimulus

102 ch LA + 48 ch PG; 4 GHz zoom; to 32 M memory; 250/450 MHz state options

Operational Notes

Prefer Agilent 16800 Series data sheet 5989-5062EN. Confirm memory and state-speed options; probes are 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

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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.