

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 16862A 68-Channel Portable Logic Analyzer

Keysight (Agilent) 16862A 68-Channel Portable Logic Analyzer The Keysight 16862A is a 68-channel portable logic analyzer in the 16860A Series. It delivers high-performance state/timing capture with 12.5 GHz timing zoom (256 K), 2.5/5.0 GHz full/half-channel timing, optional 10 GHz quarter-channel timing (Opt T10 with Opt 700), and deep memory to 128 Mb. Standard state clock 350 MHz; Opt 700 raises state to 700 MHz / 1400 Mb/s class. High-speed digital debug; DDR/LPDDR and memory-bus validation (≤ 1400 MT/s class with B4661A); FPGA and embedded system timing/state analysis. The Keysight 16862A is a 68-channel portable logic analyzer in the 16860A Series. It delivers high-performance state/timing capture with 12.5 GHz timing zoom (256 K), 2.5/5.0 GHz full/half-channel timing, optional 10 GHz quarter-channel timing (Opt T10 with Opt 700), and deep memory to 128 Mb. Standard state clock 350 MHz; Opt 700 raises state to 700 MHz / 1400 Mb/s class. High-speed digital debug; DDR/LPDDR and memory-bus validation (≤ 1400 MT/s class with B4661A); FPGA and embedded system timing/state analysis.

No photo

MODEL

Keysight 16862A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

16862A

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: 68
- Timing zoom: 12.5 GHz (80 ps) at 256 K depth, simultaneous with state/timing
- Conventional timing: 2.5 GHz full channel / 5.0 GHz half channel; optional 10 GHz quarter channel (16862A-T10 requires -700)
- State clock: 350 MHz standard; 700 MHz with Opt 700
- State data rate: 700 Mb/s standard; 1400 Mb/s with Opt 700
- Memory depth: 2 Mb standard; options 4/8/16/32/64/128 Mb
- Memory depth scales ×2 half-channel / ×4 quarter-channel timing modes
- Max trigger sequencer speed: 2.5 GHz class
- Eye scan across buses/signals; dual-sample clock modes for DDR read/write
- Form factor: portable; weight ~12.5 kg (27.6 lb) net
- Power: 100–120 V ±10%, 50/60/400 Hz (and related AC ranges per datasheet)
- Display outputs: XGA and DisplayPort
- Probe ecosystem: U4201A cables (up to 2 on 16862A) and compatible probes
- Software: B4661A Memory Analysis Software options for DDR decode/compliance

16862A Characteristics / Specifications

PARAMETER	VALUE
Model	16862A
Manufacturer	Keysight Technologies
Instrument Type	Portable Logic Analyzer
Family	16860A Series
Alias	16862A; Keysight 16862A Digital Capture 68 ch; 12.5 GHz zoom; 2.5/5 GHz timing; 350/700 MHz state; to 128 Mb Operational Notes Prefer Keysight 16860A Series data sheet. Confirm Opt 700/T10 and memory option on the installed configuration.
Channels	68
Timing zoom	12.5 GHz (80 ps) at 256 K depth, simultaneous with state/timing
Conventional timing	2.5 GHz full channel / 5.0 GHz half channel; optional 10 GHz quarter channel (16862A-T10 requires -700)
State clock	350 MHz standard; 700 MHz with Opt 700
State data rate	700 Mb/s standard; 1400 Mb/s with Opt 700
Memory depth	2 Mb standard; options 4/8/16/32/64/128 Mb
Max trigger sequencer speed	2.5 GHz class
Form factor	portable; weight ~12.5 kg (27.6 lb) net
Power	100–120 V ±10%, 50/60/400 Hz (and related AC ranges per datasheet)
Display outputs	XGA and DisplayPort
Probe ecosystem	U4201A cables (up to 2 on 16862A) and compatible probes
Software	B4661A Memory Analysis Software options for DDR decode/compliance
Data Rate	700 Mb/s standard; 1400 Mb/s with Opt 700

16862A Specifications

PARAMETER	VALUE
Key Features	- Channels: 68
Technical Specifications	Model: 16862A
Digital Capture	68 ch; 12.5 GHz zoom; 2.5/5 GHz timing; 350/700 MHz state; to 128 Mb
Operational Notes	Prefer Keysight 16860A Series data sheet. Confirm Opt 700/T10 and memory option on the installed configuration.

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.

performance state/timing capture with 12.5 GHz timing zoom (256 K), 2.5/5.0 GHz full/half-channel timing, optional 10 GHz quarter-channel timing (Opt T10 with Opt 700), and deep memory to 128 Mb. Standard state clock 350 MHz; Opt 700 raises state to 700 MHz / 1400 Mb/s class.

Applications
High-speed digital debug; DDR/LPDDR and memory-bus validation (≤ 1400 MT/s class with B4661A); FPGA and embedded system timing/state analysis.

- Key Features
- Channels: 68
 - Timing zoom: 12.5 GHz (80 ps) at 256 K depth, simultaneous with state/timing
 - Conventional timing: 2.5 GHz full channel / 5.0 GHz half channel; optional 10 GHz quarter channel (16862A-T10 requires -700)
 - State clock: 350 MHz standard; 700 MHz with Opt 700
 - State data rate: 700 Mb/s standard; 1400 Mb/s with Opt 700
 - Memory depth: 2 Mb standard; options 4/8/16/32/64/128 Mb
 - Memory depth scales $\times 2$ half-channel / $\times 4$ quarter-channel timing modes
 - Max trigger sequencer speed: 2.5 GHz class
 - Eye scan across buses/signals; dual-sample clock modes for DDR read/write
 - Form factor: portable; weight ~ 12.5 kg (27.6 lb) net
 - Power: 100–120 V $\pm 10\%$, 50/60/400 Hz (and related AC ranges per datasheet)
 - Display outputs: XGA and DisplayPort
 - Probe ecosystem: U4201A cables (up to 2 on 16862A) and compatible probes
 - Software: B4661A Memory Analysis Software options for DDR decode/compliance

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	16862A
Manufacturer	Keysight Technologies
Instrument Type	Portable Logic Analyzer
Family	16860A Series
Alias	16862A; Keysight 16862A

Digital Capture
68 ch; 12.5 GHz zoom; 2.5/5 GHz timing; 350/700 MHz state; to 128 Mb

Operational Notes
Prefer Keysight 16860A Series data sheet. Confirm Opt 700/T10 and memory option on the installed configuration.

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.