

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 1690A PC-Hosted Logic Analyzer

Keysight (Agilent) 1690A PC-Hosted Logic Analyzer The Keysight/Agilent 1690A isaPC-hosted logic analyzer in the 1690 Series with 136 channels (132 data + 4 clock/data). Acquisition hardware sits in a compact chassis controlled from a host PC over IEEE 1394 (FireWire). Performance matches the 1680A class: selectable state to 200 MHz, conventional timing 250 MHz full / 500 MHz half, 512K memory (1690AD offers 2M). Hosted digital debug from a Windows PC; space-saving logic analysis; inverse assembly and bus analysis with Agilent Logic Analyzer application software. The Keysight/Agilent 1690A isaPC-hosted logic analyzer in the 1690 Series with 136 channels (132 data + 4 clock/data). Acquisition hardware sits in a compact chassis controlled from a host PC over IEEE 1394 (FireWire). Performance matches the 1680A class: selectable state to 200 MHz, conventional timing 250 MHz full / 500 MHz half, 512K memory (1690AD offers 2M). Hosted digital debug from a Windows PC; space-saving logic analysis; inverse assembly and bus analysis with Agilent Logic Analyzer application software.

No photo

MODEL

Keysight 1690A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

1690A

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 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 (1690A); 1690AD: 2M / ~4M class
- Threshold accuracy: $\pm(65 \text{ mV} + 1.5\% \text{ of threshold setting})$
- Setup/hold adjustable in 100 ps increments (family specs)
- Host link: IEEE 1394 (6-pin) to PC; Agilent Logic Analyzer application
- Host PC (typical): Windows 2000/XP class; $\geq 500 \text{ MHz CPU}$; $\geq 128 \text{ MB RAM}$; IEEE 1394 PCI
- Power: 115/230 Vac; ~76/200 W nominal max (1690A/AD class)
- Probe interface: 40-pin logic analyzer probes (ordered separately)
- Family siblings: 1691A (102), 1692A (68), 1693A (34)

1690A Characteristics / Specifications

PARAMETER	VALUE
Model	1690A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	PC-Hosted Logic Analyzer
Family	1690 Series
Alias	1690A; Agilent 1690A Digital Capture 136 ch; to 200 MHz state; 250/500 MHz timing; 512K memory; IEEE 1394 host Operational Notes Prefer Agilent 1680/90 Series service guide 9018-04941. ConfirmAvs AD memory and that FireWire host link is intact.
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 (1690A); 1690AD: 2M / ~4M class
Threshold accuracy	±(65 mV + 1.5% of threshold setting)
Host link	IEEE 1394 (6-pin) to PC; Agilent Logic Analyzer application
Host PC (typical)	Windows 2000/XP class; ≥500 MHz CPU; ≥128 MB RAM; IEEE 1394 PCI
Power	115/230 Vac; ~76/200 W nominal max (1690A/AD class)
Probe interface	40-pin logic analyzer probes (ordered separately)
Family siblings	1691A (102), 1692A (68), 1693A (34)

1690A Specifications

PARAMETER	VALUE
Key Features	- Channels: 136 (132 data + 4 clock/data); half-channel timing 68 channels
Technical Specifications	Model: 1690A
Digital Capture	136 ch; to 200 MHz state; 250/500 MHz timing; 512K memory; IEEE 1394 host
Operational Notes	Prefer Agilent 1680/90 Series service guide 9018-04941. Confirm A vs AD memory and that FireWire host link is intact.

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 matches the 1680A class: selectable state to 200 MHz, conventional timing 250 MHz full / 500 MHz half, 512K memory (1690AD offers 2M).

Applications

Hosted digital debug from a Windows PC; space-saving logic analysis; inverse assembly and bus analysis with Agilent Logic Analyzer application software.

Key Features

- Channels: 136 (132 data + 4 clock/data); half-channel timing 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 (1690A); 1690AD: 2M / ~4M class
- Threshold accuracy: $\pm(65\text{ mV} + 1.5\% \text{ of threshold setting})$
- Setup/hold adjustable in 100 ps increments (family specs)
- Host link: IEEE 1394 (6-pin) to PC; Agilent Logic Analyzer application
- Host PC (typical): Windows 2000/XP class; $\geq 500\text{ MHz}$ CPU; $\geq 128\text{ MB}$ RAM; IEEE 1394 PCI
- Power: 115/230 Vac; ~76/200 W nominal max (1690A/AD class)
- Probe interface: 40-pin logic analyzer probes (ordered separately)
- Family siblings: 1691A (102), 1692A (68), 1693A (34)

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	1690A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	PC-Hosted Logic Analyzer
Family	1690 Series
Alias	1690A; Agilent 1690A

Digital Capture

136 ch; to 200 MHz state; 250/500 MHz timing; 512K memory; IEEE 1394 host

Operational Notes

Prefer Agilent 1680/90 Series service guide 9018-04941. Confirm Avs AD memory and that FireWire host link is intact.

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.