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Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 1661C Timing Benchtop Logic Analyzer, 102-Channel, 100 MHz State/500 MHz

Keysight (Agilent) 1661C Timing Benchtop Logic Analyzer, 102-Channel, 100 MHz State/500 MHz The HP/Agilent/Keysight 1661C is a 102-channel benchtop logic analyzer in the 1660C Series. It provides 100 MHz state analysis and 500 MHz timing analysis with 4K memory per channel (8K half-channel). Standalone color instrument with floppy/HDD, full programmability, and optional CS (scope) / CP (pattern generator + LAN) siblings in the same channel class. Hardware timing debug; microprocessor state analysis with inverse assemblers; digital system bring-up in lab environments. The HP/Agilent/Keysight 1661C is a 102-channel benchtop logic analyzer in the 1660C Series. It provides 100 MHz state analysis and 500 MHz timing analysis with 4K memory per channel (8K half-channel). Standalone color instrument with floppy/HDD, full programmability, and optional CS (scope) / CP (pattern generator + LAN) siblings in the same channel class. Hardware timing debug; microprocessor state analysis with inverse assemblers; digital system bring-up in lab environments.

No photo

MODEL Keysight 1661C	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU 1661C	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: 102 (96 data + 6 clock/data); half-channel timing uses 51 channels
- State analysis: 100 MHz (time/state tags on at 100 MHz max)
- Timing analysis: 500 MHz (half channel) / 250 MHz conventional full-channel class per family tables
- Memory depth: 4K states all channels; 8K in half-channel mode
- State clocks/qualifiers: 6
- Sequencer: 12 state levels / 10 timing levels; sequencer speed to 125 MHz max
- Pattern recognizers: 10; range recognizers: 2 (32-bit); timers: 2 (400 ns–500 s)
- Glitch/edge recognizers: 2 (timing); channel-to-channel skew and time-interval accuracy per service guide
- Thresholds: pod-programmable; variable setup/hold
- Storage: 3.5-inch floppy; ~540 MB hard disk
- Interfaces: HP-IB, RS-232-C, Centronics; DIN mouse/keyboard
- Related models: 1661CS (integrated 2-ch 1 GSa/s scope); 1661CP (32-ch 200 Mvector/s PG + Ethernet LAN)

1661C Characteristics / Specifications

PARAMETER	VALUE
Model	1661C
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Benchtop Logic Analyzer
Family	1660C Series
Alias	1661C; Agilent 1661C; HP 1661C Digital Capture 102 ch; 100 MHz state; 500 MHz timing; 4K/8K memory Operational Notes Prefer HP 1660C/CS/CP Series product overview and 1660C service guide 01660-97026. Confirm LAN/scope/PG are not present unless unit is CS/CP.
Channels	102 (96 data + 6 clock/data); half-channel timing uses 51 channels
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1661C Specifications

PARAMETER	VALUE
Applications	Hardware timing debug; microprocessor state analysis with inverse assemblers; digital system bring-up in lab environments.
Key Features	- Channels: 102 (96 data + 6 clock/data); half-channel timing uses 51 channels
Technical Specifications	Model: 1661C
Digital Capture	102 ch; 100 MHz state; 500 MHz timing; 4K/8K memory

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	1661C
Manufacturer	Keysight Technologies (Agilent / HP)
Instrument Type	Benchtop Logic Analyzer
Family	1660C Series
Alias	1661C; Agilent 1661C; HP 1661C

Digital Capture

102 ch; 100 MHz state; 500 MHz timing; 4K/8K memory

Operational Notes

Prefer HP 1660C/CS/CP Series product overview and 1660C service guide 01660-97026. Confirm LAN/scope/PG are not present unless unit is CS/CP.

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.