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Data Sheet

August 7, 2026

KEYSIGHT

Keysight (Agilent) 16910A 102-Channel 4 GHz Timing/250 MHz State Logic Analysis Module

Keysight (Agilent) 16910A 102-Channel 4 GHz Timing/250 MHz State Logic Analysis Module

The Keysight/Agilent 16910A is a 102-channel logic analysis measurement module for 16900 Series modular mainframes. It provides 4 GHz timing zoom (64 K), 1.0 GHz / 500 MHz half/full-channel conventional timing, 500 MHz transitional timing, and state analysis to 250 MHz (Opt 250) or 450 MHz (Opt 500). Up to five modules combine for 510 timing channels on one time base. Wide-bus digital debug in 16900 frames; high-speed state/timing correlation; multi-card expansion for large pin-count designs. The Keysight/Agilent 16910A is a 102-channel logic analysis measurement module for 16900 Series modular mainframes. It provides 4 GHz timing zoom (64 K), 1.0 GHz / 500 MHz half/full-channel conventional timing, 500 MHz transitional timing, and state analysis to 250 MHz (Opt 250) or 450 MHz (Opt 500). Up to five modules combine for 510 timing channels on one time base. Wide-bus digital debug in 16900 frames; high-speed state/timing correlation; multi-card expansion for large pin-count designs.

No photo

MODEL

Keysight 16910A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

16910A

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 per module: 102 timing; state analysis 98 data + 4 clocks (1-card) • Max channels on single time base: 510 (5 modules × 102) • Timing zoom: 4 GHz (250 ps) with 64 K depth • Conventional timing: 1.0 GHz half / 500 MHz full channel • Transitional timing: 500 MHz • State clock: 250 MHz (Opt 250) or 450 MHz (Opt 500) • State data rate: 250 Mb/s (Opt 250) or 500 Mb/s (Opt 500) • Memory depth options: 1 M, 4 M, 16 M, 32 M (and related upgrade SKUs) • Threshold: -5 V to +5 V in 10 mV increments; single-ended support • Eye finder automatic setup/hold; simultaneous eye diagrams on all channels • Sample position adjustment resolution: ~80 ps typical • Probe compatibility: 40-pin logic analyzer probes (ordered separately) • Mainframe: 16900 Series modular logic analyzers • Sibling: 16911A is the 68-channel counterpart in the same performance class

16910A Characteristics / Specifications

PARAMETER	VALUE
Model	16910A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Logic Analysis Measurement Module
Family	16900 Series Measurement Modules
Alias	16910A; Agilent 16910A Digital Capture 102 ch/module; 4 GHz zoom; 1 GHz/500 MHz timing; 250/450 MHz state; to 32 M Operational Notes Prefer Keysight "Measurement Modules for the 16900 Series" data sheet 5989-0422. Confirm Opt 250 vs 500 and memory depth on the module configuration.
Channels per module	102 timing; state analysis 98 data + 4 clocks (1-card)
Max channels on single time base	510 (5 modules × 102)
Timing zoom	4 GHz (250 ps) with 64 K depth
Conventional timing	1.0 GHz half / 500 MHz full channel
Transitional timing	500 MHz
State clock	250 MHz (Opt 250) or 450 MHz (Opt 500)
State data rate	250 Mb/s (Opt 250) or 500 Mb/s (Opt 500)
Memory depth options	1 M, 4 M, 16 M, 32 M (and related upgrade SKUs)
Threshold	–5 V to +5 V in 10 mV increments; single-ended support
Sample position adjustment resolution	~80 ps typical
Probe compatibility	40-pin logic analyzer probes (ordered separately)
Mainframe	16900 Series modular logic analyzers
Sibling	16911A is the 68-channel counterpart in the same performance class
Data Rate	250 Mb/s (Opt 250) or 500 Mb/s (Opt 500) - Memory depth options: 1 M, 4 M, 16 M, 32 M (and related upgrade SKUs) - Threshold: –5 V to +5 V in 10 mV increments; single-ended support - Eye finder automatic setup/hold; simultaneous eye diagrams on all c

16910A Specifications

PARAMETER	VALUE
Applications	Wide-bus digital debug in 16900 frames; high-speed state/timing correlation; multi-card expansion for large pin-count designs.
Key Features	- Channels per module: 102 timing; state analysis 98 data + 4 clocks (1-card)
Technical Specifications	Model: 16910A
Digital Capture	102 ch/module; 4 GHz zoom; 1 GHz/500 MHz timing; 250/450 MHz state; to 32 M

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 class

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	16910A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Logic Analysis Measurement Module
Family	16900 Series Measurement Modules
Alias	16910A; Agilent 16910A

Digital Capture

102 ch/module; 4 GHz zoom; 1 GHz/500 MHz timing; 250/450 MHz state; to 32 M

Operational Notes

Prefer Keysight "Measurement Modules for the 16900 Series" data sheet 5989-0422. Confirm Opt 250 vs 500 and memory depth on the module 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

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NIST-traceable calibration · SAM registered ·
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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.