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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 16718A

Agilent 16718A State and Timing Module 68 Channel Deep Memory The Agilent 16718A is a 68-channel 16700-series module with 333 MHz state, 2 GHz Timing Zoom, 333/667 MHz conventional timing, and 8M/16M memory. OEM 5966-3367E lists the same VisiTrigger resource set as 16717A/16719A with 333 MHz sequence speed. Deep-trace capture of 32/64-bit buses, high-speed computer debug, and data-intensive systems in 16700 mainframes. 8M/16M memory with hardware-accelerated search The Agilent 16718A is a 68-channel 16700-series module with 333 MHz state, 2 GHz Timing Zoom, 333/667 MHz conventional timing, and 8M/16M memory. OEM 5966-3367E lists the same VisiTrigger resource set as 16717A/16719A with 333 MHz sequence speed. Deep-trace capture of 32/64-bit buses, high-speed computer debug, and data-intensive systems in 16700 mainframes. 8M/16M memory with hardware-accelerated search Instrument Type: State and timing logic analyzer module



MODEL

**Agilent / Keysight
16718A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16718A

LISTING

<https://aumictechlabs.com/products/16718a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 16718A is a logic analysis module engineered for high-speed serial data capture and analysis within the 16700 Series logic analyzer systems. It recovers clock signals and demultiplexes data streams, delivering the timing resolution and memory depth required to characterize complex digital designs. The module operates at state speed to 333 MHz and timing speed to 2 GHz, with 8 M samples of capture memory across 68 channels per module. Technical

Specifications State Speed: 333 MHz Timing Speed: 2 GHz Memory Depth: 8 M samples Channel Count: 68 channels per moduleKey Features Integrated clock recovery and data demultiplexing for serial link analysis Deep acquisition memory enables extended captures of high-speed digital traffic Multi-channel architecture supports parallel measurement of related signal domains Modular architecture allows stacking within compatible mainframes for expanded channel capacityTypical Applications Serial data link characterization and debugging Clock recovery verification in digital systems Multi-domain timing correlation across integrated measurement platforms High-speed digital protocol analysis and validationCompatibility & Integration The 16718A integrates directly into Agilent/Keysight 16700 Series mainframes: 16700A, 16700B, 16701A, 16701B, 16702A, and 16702B. Operates with Agilent/Keysight logic analyzer probing solutions, including Pro Series soft touch connectorless probes and 90-pin cable connector probes. System integration enables time-correlated measurements across module boundaries within the same mainframe.

16718A Characteristics / Specifications

PARAMETER	VALUE
Model	16718A
Instrument Type	State and timing logic analyzer module
Host Mainframe	Agilent 16700-series logic analysis system
Channels Per Module	68
Maximum State Clock	333 MHz (state speeds greater than 167 MHz require a feature trade-off per note 1)
Timing Zoom	2 GHz Timing Zoom
Conventional Timing Full Half	333 MHz / 667 MHz
Memory Depth Full Half	8M / 16M (half-channel timing doubles depth)
Sibling 16717A Memory	2M / 4M
Sibling 16719A Memory	32M / 64M
Maximum Channels Single Time Base	340
Maximum Channels In System	680
Trigger Patterns	16
Trigger Ranges	15
Trigger Edge Glitch	2
Maximum Trigger Sequence Levels	16
Maximum Trigger Sequence Speed	333 MHz
Trigger Branching	4-way arbitrary IF/THEN/ELSE
State Clocks Qualifiers	4
Setup Hold Window	2.5 ns window adjustable from 4.5/-2.0 ns to -2.0/4.5 ns in 100 ps increments per channel
Threshold Range	TTL, ECL, user-definable plus or minus 6.0 V in 10 mV increments
Deep Memory Search	hardware accelerated search of the full 8M/32M-class trace in a few seconds on the 16718A/16719A description
Recommended Host Disk	16700A-series option 008 18 GB external hard drive recommended for 16718A/16719A

PARAMETER	VALUE
Timing Zoom Memory Family	16K depth, 250 MHz to 2 GHz variable sample rate

16718A Specifications

PARAMETER	VALUE
Applications	Deep-trace capture of 32/64-bit buses, high-speed computer debug, and data-intensive systems in 16700 mainframes.
Key Features	68 channels per module
Technical Specifications	Model: 16718A

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	
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Timing Zoom Memory Family	16K depth, 250 MHz to 2 GHz variable sample rate

Notes

From Agilent State and Timing Modules product overview 5966-3367E, 16717A/16718A/16719A column with 16718A memory 8/16M. State greater than 167 MHz is the published feature-trade-off note.

Ordering Information

OPTION	DESCRIPTION
Option 008	18 GB external hard drive recommended for 16718A/16719A

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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.