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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 16717A Timing and State Module

Keysight (Agilent) 16717A Timing and State Logic Analyzer Module The Agilent/Keysight 16717A is a 68-channel timing and state module for 16700-series logic analysis systems. It provides 333 MHz state analysis, conventional timing to 333/667 MHz (full/half channel), and 2 GHz Timing Zoom with 16K depth and variable placement around the trigger. Each channel has 2M of acquisition memory (4M in half-channel timing). Up to five modules can share a time base for 340 channels. High-speed digital state and timing debug; simultaneous Timing Zoom plus deep state capture through one probe connection; multi-module wide-bus analysis on 16700 frames. The Agilent/Keysight 16717A is a 68-channel timing and state module for 16700-series logic analysis systems. It provides 333 MHz state analysis, conventional timing to 333/667 MHz (full/half channel), and 2 GHz Timing Zoom with 16K depth and variable placement around the trigger. Each channel has 2M of acquisition memory (4M in half-channel timing). Up to five modules can share a time base for 340 channels. High-speed digital state and timing debug; simultaneous Timing Zoom plus deep state capture through one probe connection; multi-module wide-bus analysis on 16700 frames.



MODEL

**Keysight / Agilent
16717A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

16717A

LISTING

<https://aumictechlabs.com/products/16717a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 16717A is a timing and state logic analyzer module that captures and analyzes digital signals across up to 68 channels. It delivers simultaneous acquisition of 2 GHz timing data and 333 MHz state data through a single connection to the device under test, isolate timing-critical issues in complex digital systems. Deep memory acquisition and VisiTrigger™ technology provide flexible triggering for difficult-to-catch events. The module installs within compatible Keysight logic analysis system mainframes and scales up to five modules for systems reaching 340 channels.

Technical Specifications

State Analysis Maximum state clock speed: 333 MHz Channels: 68 channels Memory depth: 2M samples per channel

Timing Analysis Maximum timing sample rate: 2 GHz Timing zoom sample rate: 250 MHz to 2 GHz Timing zoom memory depth: 16K samples per channel Half-channel timing mode memory: up to 4M samples per channel

Simultaneous Acquisition Dual-mode capture: 2 GHz timing and 333 MHz state data across all channels in a single acquisition

Key Features VisiTrigger™ technology for advanced triggering control Scalable architecture: connect up to five modules for 340-channel systems Flexible memory allocation between timing and state modes Compatible with multiple Keysight probing solutions (E5396A, E5404A, E5394A)

Typical Applications High-speed digital system debugging Protocol analysis and verification Complex design troubleshooting requiring timing and state correlation

Compatibility & Integration The 16717A integrates with Keysight logic analysis systems including the 16700A/B, 16900A, 16901A, 16902A/B, and 16903A series. Installation within compatible mainframes follows the Keysight 16900, 16700, and 16500 compatibility matrix. Service and installation guides are available for the 16715/16A and 16717/18/19A module series.

Features & description

From manufacturer datasheet

Features

- 68 channels per module; up to 340 channels on one time base (five modules)

16717A Characteristics / Specifications

PARAMETER	VALUE
Model	16717A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Timing and state logic analyzer module
Host Platform	Agilent 16700-series logic analysis systems
Alias	16717A; Agilent 16717A; Keysight 16717A
Channels per module	68
Maximum channels on one time base and trigger	340
Maximum channels in a system	680
Maximum state clock	333 MHz
Timing Zoom	2 GHz
Timing Zoom sample rate range	250 MHz to 2 GHz
Timing Zoom memory depth	16K
Maximum trigger sequence speed	167 MHz
Maximum trigger sequence levels	16
Trigger branching	4-way arbitrary IF/THEN/ELSE
Glitch detect (minimum)	1.5 ns
Independent analyzers	2 (second analyzer off when 333 MHz state mode selected) Notes Specs from Agilent State and Timing Modules data (16715A/16716A/16717A family table) and 16717A product literature. Confirm 16700 mainframe compatibility and multi-card cabling.

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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PARAMETER	VALUE
Model	16717A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Timing and state logic analyzer module
Specifications	
PARAMETER	VALUE
Host Platform	Agilent 16700-series logic analysis systems
Alias	16717A; Agilent 16717A; Keysight 16717A
Channels per module	68
Maximum channels on one time base and trigger: 340	
Maximum channels inasystem: 680	
Maximum state clock: 333 MHz	
Conventional timing (full-channel): 333 MHz	
Conventional timing (half-channel): 667 MHz	
Specifications	
PARAMETER	VALUE
Timing Zoom	2 GHz
Timing Zoom sample rate range	250 MHz to 2 GHz
Timing Zoom memory depth	16K
Memory depth (full-channel): 2M	
Memory depth (half-channel): 4M	
Specifications	
PARAMETER	VALUE
Maximum trigger sequence speed	167 MHz
Maximum trigger sequence levels	16
Trigger branching	4-way arbitrary IF/THEN/ELSE

Sample period (full-channel timing): 3 ns to 1 ms

Sample period (half-channel timing): 1.5 ns

Channel-to-channel skew: less than 1.5 ns

Glitch detect (minimum): 1.5 ns

Independent analyzers: 2 (second analyzer off when 333 MHz state mode selected)

Notes

Specs from Agilent State and Timing Modules data (16715A/16716A/16717A family table) and 16717A product literature. Confirm 16700 mainframe compatibility and multi-card cabling.

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.