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**Data Sheet**

August 7, 2026

KEYSIGHT

# Keysight (Agilent) 16741A Timing and State Module

Keysight (Agilent) 16741A Timing and State Module The Keysight/Agilent 16741A is a 68-channel timing and state acquisition module for 16700-series logic analysis mainframes. It provides 200 MHz state analysis, up to 800 MHz timing (half-channel), 4M acquisition memory, and 2 GHz Timing Zoom for simultaneous high-speed timing around the trigger through the same probe connection. Mid-depth member of the 16740A (1M) / 16741A (4M) / 16742A (16M) family. Complex digital debug in 16700/16702 frames; multi-module wide-bus capture; high-speed state with correlated timing zoom; eye-finder setup on fast buses. The Keysight/Agilent 16741A is a 68-channel timing and state acquisition module for 16700-series logic analysis mainframes. It provides 200 MHz state analysis, up to 800 MHz timing (half-channel), 4M acquisition memory, and 2 GHz Timing Zoom for simultaneous high-speed timing around the trigger through the same probe connection. Mid-depth member of the 16740A (1M) / 16741A (4M) / 16742A (16M) family. Complex digital debug in 16700/16702 frames; multi-module wide-bus capture; high-speed state with correlated timing zoom; eye-finder setup on fast buses.

No photo

MODEL

**Keysight 16741A**

CALIBRATION

**N/A — off-catalog  
OEM datasheet**

CONDITION

**See OEM  
documentation**

STATUS

**Not listed on  
Aumictech  
inventory**

RFQ / SKU

**16741A**

LISTING

**Off-catalog — OEM dat  
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## Features & description

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From manufacturer datasheet

### Features

- Channels per module: 68
- Maximum channels on one time base/trigger: 340 (combine modules)
- State speed: 200 MHz
- Timing speed: up to 800 MHz (half-channel configuration)
- Timing Zoom: 2 GHz simultaneous with state/timing via same probes
- Acquisition memory: 4M (16741A); related 16740A = 1M, 16742A = 16M
- Half-channel 800 MHz mode stores at 1.25 ns sample period (fixed in that config); memory depth scales with full/half mode
- Eye finder: automatic setup/hold adjustment across channels
- Transitional timing and store-qualified timing modes
- Trigger: VisiTrigger-class complex sequences with graphical/textual setup
- Mainframe: Agilent/Keysight 16700-series logic analysis systems
- Probing: compatible 16700-family probe pods (ordered separately)

## 16741A Characteristics / Specifications

| PARAMETER                                 | VALUE                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                     | 16741A                                                                                                                                                                                                                                                                                       |
| Manufacturer                              | Keysight Technologies (Agilent)                                                                                                                                                                                                                                                              |
| Instrument Type                           | Timing and State Logic Analysis Module                                                                                                                                                                                                                                                       |
| Family                                    | 16740A / 16741A / 16742A                                                                                                                                                                                                                                                                     |
| Alias                                     | 16741A; Agilent 16741A Digital Capture 68 ch/module; 200 MHz state; 800 MHz timing; 4M memory; 2 GHz zoom Operational Notes Prefer Agilent 16740A-family online help / product notes. Memory depth halves when time/state tags share acquisition memory unless apod pair is left unassigned. |
| Channels per module                       | 68                                                                                                                                                                                                                                                                                           |
| Maximum channels on one time base/trigger | 340 (combine modules)                                                                                                                                                                                                                                                                        |
| State speed                               | 200 MHz                                                                                                                                                                                                                                                                                      |
| Timing speed                              | up to 800 MHz (half-channel configuration)                                                                                                                                                                                                                                                   |
| Timing Zoom                               | 2 GHz simultaneous with state/timing via same probes                                                                                                                                                                                                                                         |
| Acquisition memory                        | 4M (16741A); related 16740A = 1M, 16742A = 16M                                                                                                                                                                                                                                               |
| Eye finder                                | automatic setup/hold adjustment across channels                                                                                                                                                                                                                                              |
| Trigger                                   | VisiTrigger-class complex sequences with graphical/textual setup                                                                                                                                                                                                                             |
| Mainframe                                 | Agilent/Keysight 16700-series logic analysis systems                                                                                                                                                                                                                                         |
| Probing                                   | compatible 16700-family probe pods (ordered separately)                                                                                                                                                                                                                                      |

# 16741A Specifications

| PARAMETER                                         | VALUE                                                              |
|---------------------------------------------------|--------------------------------------------------------------------|
| Keysight (Agilent) 16741A Timing and State Module | Overview                                                           |
| Key Features                                      | - Channels per module: 68                                          |
| Technical Specifications                          | Model: 16741A                                                      |
| Digital Capture                                   | 68 ch/module; 200 MHz state; 800 MHz timing; 4M memory; 2 GHz zoom |

# 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           | 16741A                                 |
| Manufacturer    | Keysight Technologies (Agilent)        |
| Instrument Type | Timing and State Logic Analysis Module |
| Family          | 16740A / 16741A / 16742A               |
| Alias           | 16741A; Agilent 16741A                 |

Digital Capture

68 ch/module; 200 MHz state; 800 MHz timing; 4M memory; 2 GHz zoom

Operational Notes

Prefer Agilent 16740A-family online help / product notes. Memory depth halves when time/state tags share acquisition memory unless apod pair is left unassigned.

### 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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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.