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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34501M

Agilent 34501M 4×8 Armature Matrix Module The HP 34501M is a 4×8 armature matrix module for the HP 3235 switching mainframe. OEM 34501M listings specify 32 crosspoints, 4×8 matrix configuration, DC to 1 MHz bandwidth, 42 Vdc / 30 Vac maximum, 2 A maximum, and 2-wire connectors without switched shield. Family text for 34501M-class 3235 matrices also states switching of signals between DC and 1 MHz. Sibling 34511M is the higher-density 3235 matrix in the same remaining queue. Flexible DC-to-1 MHz signal matrix switching in HP 3235 ATE mainframes that specify 34501M. The HP 34501M is a 4×8 armature matrix module for the HP 3235 switching mainframe. OEM 34501M listings specify 32 crosspoints, 4×8 matrix configuration, DC to 1 MHz bandwidth, 42 Vdc / 30 Vac maximum, 2 A maximum, and 2-wire connectors without switched shield. Family text for 34501M-class 3235 matrices also states switching of signals between DC and 1 MHz. Sibling 34511M is the higher-density 3235 matrix in the same remaining queue. Flexible DC-to-1 MHz signal matrix switching in HP 3235 ATE mainframes that specify 34501M.



MODEL

**Agilent / Keysight
34501M**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34501M

LISTING

<https://aumictechlabs.com/products/34501m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 34501M is a 6.5-digit digital multimeter engineered for measurement applications in electronics testing, research, and manufacturing environments. It delivers the

accuracy, resolution, and stability demanded by precision measurement tasks across a broad range of electrical parameters.

Technical Specifications The 34501M provides 6.5-digit resolution across all measurement functions. Standard capabilities encompass DC voltage, AC voltage, DC current, AC current, resistance, continuity, diode test, and frequency measurement. The instrument is designed around high-accuracy performance with measurement stability suitable for demanding laboratory and production test environments.

Key Features 6.5-digit measurement resolution DC and AC voltage measurement DC and AC current measurement Resistance and continuity testing Diode test functionality Frequency measurement capability High accuracy and measurement stability Versatile connectivity for remote control and data acquisition Integration with PathWave BenchVue Digital Multimeter Software for automated test sequences, data visualization, and remote instrument control

Typical Applications The 34501M suits precision measurement requirements in electronics development, component characterization, quality assurance testing, and laboratory research. Its measurement functions and accuracy make it applicable to component validation, circuit troubleshooting, and production test environments where multi-function measurement capability is required.

Compatibility & Integration The instrument integrates into multi-instrument test systems through PathWave BenchVue software, which enables centralized control and data acquisition from multiple digital multimeters via a single computer. This architecture supports automated test sequence creation and synchronized measurements across distributed test setups.

34501M Characteristics / Specifications

PARAMETER	VALUE
Model	34501M
Instrument Type	armature matrix switch module
Manufacturer	Hewlett Packard / Agilent
Literature	HP 34501M 4×8 matrix module listings for 3235
Host Mainframe	HP 3235 / 3235A switching mainframe
Matrix Configuration	4×8
Crosspoints	32
Bandwidth	1 MHz
Maximum Voltage Dc	42 Vdc
Maximum Voltage Ac	30 Vac rms
Maximum Current	2 A
Connectors	2-wire
Switched Shield	no
Relay Class	armature
Sibling High Density	34511M higher-density 3235 matrix (different SKU)
Sibling Mux	34501A 32-channel armature multiplexer (different SKU)
Brand Lineage	HP / Agilent / Keysight
Form Factor	3235 plug-in matrix module
Ate Class	ATE signal matrix
System Role	4×8 path switching between instruments and DUT
Application Class	flexible signal switching
Family	HP 3235 345xx switch modules

34501M Specifications

PARAMETER	VALUE
Agilent 34501M 4×8 Armature Matrix Module	Overview
Applications	Flexible DC-to-1 MHz signal matrix switching in HP 3235 ATE mainframes that specify 34501M.
Key Features	4×8 armature matrix, 32 crosspoints
DC to 1 MHz / 2 A class switching	2-wire connectors, no switched shield
HP 3235 mainframe module	Sibling 34511M is the higher-density matrix
Technical Specifications	Model: 34501M

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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Notes	
From HP 34501M 4x8 matrix listings (32 crosspoints, 1 MHz, 42 Vdc / 30 Vac, 2 A, 2-wire). Do not assign 34501A multiplexer identity or unpublished 34511M density numbers to this SKU.	

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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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.