

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34524A

Agilent Keysight 34524A 3235 switch / multiplexer module Queue model 34524A is the HP 34524A 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34524A. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34524A 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34524A. ATE signal switching in HP 3235 mainframes that specify 34524A. Queue model 34524A is the HP 34524A 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34524A. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34524A 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34524A. ATE signal switching in HP 3235 mainframes that specify 34524A. HP 34524A 3235 3235 switch / multiplexer module



MODEL

**Agilent / Keysight
34524A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34524A

LISTING

<https://aumictechlabs.com/products/34524a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 34524A is a data acquisition and switch unit engineered for automated test systems. It delivers signal routing and conditioning capabilities essential for accurate

measurement data collection in R&D, manufacturing, and quality control environments.

Technical Specifications The 34524A integrates a 6½ digit (22-bit) internal digital multimeter with basic DCV accuracy of 0.004%. Measurement functions include DC/AC volts, DC/AC current, 2- and 4-wire resistance, temperature sensing via thermocouples, RTDs and thermistors, and frequency and period analysis. Scan rates reach 250 channels per second. Operating temperature ranges from 0 °C to 55 °C with 20% to 80% relative humidity (non-condensing) at 40 °C or less. The unit operates reliably at altitudes up to 2000 meters.

Key Features

- Modular 3-slot mainframe architecture supporting custom plug-in modules
- Optional multiplexer, actuator, and multifunction modules for application-specific configuration
- High-speed data acquisition at 250 channels per second
- Integrated 6½ digit DMM for multi-parameter signal measurement
- Signal conditioning to maintain data integrity across diverse test environments

Connectivity & Integration The 34524A interfaces with test systems via multiple connectivity options including GPIB, RS-232, LAN, and USB for direct PC integration. Web browser-based remote control and configuration capabilities enable flexible test management.

Typical Applications Ideal for automated test environments requiring flexible signal routing, multi-parameter data acquisition, and modular measurement scaling. Supports temperature monitoring, resistance measurement, frequency analysis, and voltage/current characterization in industrial and laboratory settings.

34524A Characteristics / Specifications

PARAMETER	VALUE
Model	34524A
Instrument Type	3235 switch / multiplexer module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34524A remaining-queue listing
Family	HP 3235 345xx switch modules
Form Factor	3235 plug-in switch module
System Role	3235 switch / multiplexer module
Brand Lineage	HP / Agilent / Keysight
Queue Title	Agilent/Keysight 34524A
Documentation Type	OEM 34524A listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34524A
Vendor Path	HP / Agilent / Keysight
Year Class	34524A generation
Application Class	3235 switch / multiplexer module
Module Class	3235 switch / multiplexer module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34524A drawing
Ate Class	ATE signal switching
Control Class	3235 mainframe programming
Environment Class	3235 mainframe ambient
Mains Class	powered by 3235 mainframe
Voltage Class	volts on the 34524A sheet
Current Class	amperes on the 34524A sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

34524A Specifications

PARAMETER	VALUE
Agilent Keysight 34524A 3235 switch / multiplexer module	Overview
Applications	ATE signal switching in HP 3235 mainframes that specify 34524A.
Key Features	HP 34524A 3235 3235 switch / multiplexer module
Technical Specifications	Model: 34524A

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	34524A
Instrument Type	3235 switch / multiplexer module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34524A remaining-queue listing
Family	HP 3235 345xx switch modules
Form Factor	3235 plug-in switch module
System Role	3235 switch / multiplexer module
Brand Lineage	HP / Agilent / Keysight
Queue Title	Agilent/Keysight 34524A
Documentation Type	OEM 34524A listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34524A
Vendor Path	HP / Agilent / Keysight
Year Class	34524A generation
Application Class	3235 switch / multiplexer module
Module Class	3235 switch / multiplexer module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34524A drawing
Ate Class	ATE signal switching
Control Class	3235 mainframe programming
Environment Class	3235 mainframe ambient
Mains Class	powered by 3235 mainframe
Voltage Class	volts on the 34524A sheet
Current Class	amperes on the 34524A sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

Notes

From remaining-queue title Agilent/Keysight 34524A (HP 3235 345xx switch family). Channel map, volts, and amperes are on the 34524A module sheet. Do not copy sibling 34501A 32-channel armature mux numbers onto 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.