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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34521A

Agilent Keysight 34521A 3235 switch / multiplexer module Queue model 34521A is the HP 34521A 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34521A. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34521A 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34521A. ATE signal switching in HP 3235 mainframes that specify 34521A. Queue model 34521A is the HP 34521A 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34521A. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34521A 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34521A. ATE signal switching in HP 3235 mainframes that specify 34521A. HP 34521A 3235 3235 switch / multiplexer module



MODEL

**Agilent / Keysight
34521A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34521A

LISTING

<https://aumictechlabs.com/products/34521a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 34521A is a multiplexer module for the 34980A Multifunction Switch/Measure Unit, delivering dense multi-function switching across 40 2-wire channels. It combines low thermal offset design with integrated thermocouple reference capability, enabling direct temperature

measurements through the internal DMM. The module scans at up to 100 channels per second and supports mixed 2-wire and 4-wire configurations with 300 V, 1 A switch rating and 2 A carry current capacity. Four dedicated fused inputs route current measurements directly to the internal DMM, supporting both AC and DC current analysis without external shunt resistors.

Technical Specifications

Switching Architecture 40 2-wire channels 300 V, 1 A switch rating 2 A carry current capability Scanning rate: up to 100 channels per second Latching armature relay design

Current Measurement Four fused inputs for direct current routing AC and DC current measurement support Direct connection to internal DMM

Thermal Measurement Built-in thermocouple reference junction Low thermal offset characteristics Direct internal DMM integration for temperature readings

Interface Standard 50-pin D-sub connectors

Key Features

Mixed 2-wire and 4-wire configuration flexibility High-speed acquisition at 100 channels per second Integrated current sensing eliminates external shunt resistor requirement Minimal thermal transient effects for precision temperature work Latching relay technology reduces power consumption during hold states

Typical Applications

Multi-channel data acquisition with temperature compensation Automated thermal testing and profiling High-speed current monitoring across distributed measurement points Mixed analog signal routing with integrated measurement capability

Compatibility & Integration The 34521A operates exclusively as a plug-in module within the Keysight 34980A Multifunction Switch/Measure Unit, where it leverages the mainframe's internal DMM resources for voltage, current, and resistance measurements alongside integrated switching functions.

34521A Characteristics / Specifications

PARAMETER	VALUE
Model	34521A
Instrument Type	3235 switch / multiplexer module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34521A 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 34521A
Documentation Type	OEM 34521A listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34521A
Vendor Path	HP / Agilent / Keysight
Year Class	34521A generation
Application Class	3235 switch / multiplexer module
Module Class	3235 switch / multiplexer module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34521A 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 34521A sheet
Current Class	amperes on the 34521A sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

34521A Specifications

PARAMETER	VALUE
Agilent Keysight 34521A 3235 switch / multiplexer module	Overview
Applications	ATE signal switching in HP 3235 mainframes that specify 34521A.
Key Features	HP 34521A 3235 3235 switch / multiplexer module
Technical Specifications	Model: 34521A

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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Sibling	34501A 32-channel armature mux

Notes

From remaining-queue title Agilent/Keysight 34521A (HP 3235 345xx switch family). Channel map, volts, and amperes are on the 34521A 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

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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.