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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34504B

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



MODEL

**Agilent / Keysight
34504B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34504B

LISTING

<https://aumictechlabs.com/products/34504b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 34504B is a PCI GPIB interface card that enables direct connection and control of up to 14 test instruments in automated measurement systems. Operating at a maximum

data transfer rate of 900 KB/s, it decouples GPIB and PCI bus transfers to optimize system performance while supporting both IEEE 488.1 and IEEE 488.2 protocols. Technical Specifications

Interface Standard: IEEE 488.1 and IEEE 488.2 compliant GPIB Data Transfer Rate: 900 KB/s maximum Instrument Capacity: Up to 14 instruments via daisy-chain configuration Power Supply: +3.3 V or +5 V from PCI backplane Bus Standard: PCI rev 2.1 and PCI rev 2.2, 32-bit, universal 3.3 V/5 V slots Form Factor: Standard and low-profile bracket options Physical Dimensions: 122 mm (L) × 122 mm (W) × 22 mm (H) Weight: 0.091 kg

Key Features Built-in I/O buffering with direct memory access (DMA) capability for optimized throughput across all GPIB configurations Decoupled GPIB-to-PCI transfer architecture eliminates bus contention and improves overall system performance Parallel polling support enables single-cycle status interrogation of up to 8 instruments Bracket flexibility accommodates both standard and low-profile PC chassis installations Plug-and-play compatible with automatic hardware detection and software configuration

Typical Applications Automated test equipment (ATE) systems requiring multi-instrument control Data acquisition platforms for laboratory and production environments Instrument integration into existing Windows-based measurement systems

Compatibility & Integration Operating Systems: Windows 7, 8, 10 (32-bit and 64-bit); Windows Server 2008 R2 SP1, 2012, 2016 (64-bit) Software Requirements: Keysight IO Libraries Suite version 17.0 or later Installation: Plug-and-play standard compatible; requires single PCI slot

34504B Characteristics / Specifications

PARAMETER	VALUE
Model	34504B
Instrument Type	3235 switch / multiplexer module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34504B 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 34504B
Documentation Type	OEM 34504B listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34504B
Vendor Path	HP / Agilent / Keysight
Year Class	34504B generation
Application Class	3235 switch / multiplexer module
Module Class	3235 switch / multiplexer module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34504B 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 34504B sheet
Current Class	amperes on the 34504B sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

34504B Specifications

PARAMETER	VALUE
Agilent Keysight 34504B 3235 switch / multiplexer module	Overview
Applications	ATE signal switching in HP 3235 mainframes that specify 34504B.
Key Features	HP 34504B 3235 3235 switch / multiplexer module
Technical Specifications	Model: 34504B

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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Mains Class	powered by 3235 mainframe
Voltage Class	volts on the 34504B sheet
Current Class	amperes on the 34504B sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

Notes

From remaining-queue title Agilent/Keysight 34504B (HP 3235 345xx switch family). Channel map, volts, and amperes are on the 34504B 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.