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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34522B

Agilent Keysight 34522B 3235 switch / multiplexer module Queue model 34522B is the HP 34522B 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34522B. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34522B 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34522B. ATE signal switching in HP 3235 mainframes that specify 34522B. Queue model 34522B is the HP 34522B 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34522B. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34522B 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34522B. ATE signal switching in HP 3235 mainframes that specify 34522B. HP 34522B 3235 3235 switch / multiplexer module



MODEL

**Agilent / Keysight
34522B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34522B

LISTING

<https://aumictechlabs.com/products/34522b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 34522B is a 32-bit digital I/O module engineered for parallel data acquisition and control within the HP 3235 Mainframe ecosystem. It has 32 bidirectional TTL-compatible data

lines organized into four independent 8-bit ports, each with dedicated handshake control. Ports operate flexibly as individual read/write channels or combine for 16-bit and 32-bit parallel transfers. The module delivers read/write rates exceeding 40 kHz, supporting time-critical applications requiring deterministic data exchange.

Technical Specifications

- Data Lines:** 32 bidirectional, TTL-compatible
- Port Architecture:** Four 8-bit ports with independent handshake lines
- Configurable Data Transfer:** 8-bit, 16-bit, or 32-bit parallel operation
- Interrupt Lines:** 8 edge-triggered
- High-Power Outputs:** 16 FET outputs
- Data Rate:** Greater than 40 kHz read/write

Key Features

- Flexible port configuration enables independent or combined operation for mixed-width parallel transfers
- Edge-triggered interrupt architecture supports responsive event handling in control applications
- High-power FET outputs drive external loads without additional buffering
- TTL signal levels ensure compatibility with standard digital logic families
- Modular design integrates directly into mainframe-based test and measurement systems

Typical Applications

- Automated test equipment (ATE) requiring parallel digital control and monitoring
- Real-time data acquisition from multiple sensor and device interfaces
- Industrial process control with deterministic timing requirements
- Hardware-in-the-loop simulation platforms
- Multi-channel digital signal routing and switching

Compatibility & Integration

The 34522B works with the HP 3235 Mainframe, providing seamless integration into modular measurement platforms.

34522B Characteristics / Specifications

PARAMETER	VALUE
Model	34522B
Instrument Type	3235 switch / multiplexer module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34522B 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 34522B
Documentation Type	OEM 34522B listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34522B
Vendor Path	HP / Agilent / Keysight
Year Class	34522B generation
Application Class	3235 switch / multiplexer module
Module Class	3235 switch / multiplexer module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34522B 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 34522B sheet
Current Class	amperes on the 34522B sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

34522B Specifications

PARAMETER	VALUE
Agilent Keysight 34522B 3235 switch / multiplexer module	Overview
Applications	ATE signal switching in HP 3235 mainframes that specify 34522B.
Key Features	HP 34522B 3235 3235 switch / multiplexer module
Technical Specifications	Model: 34522B

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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Model	34522B
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Control Class	3235 mainframe programming
Environment Class	3235 mainframe ambient
Mains Class	powered by 3235 mainframe
Voltage Class	volts on the 34522B sheet
Current Class	amperes on the 34522B sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

Notes

From remaining-queue title Agilent/Keysight 34522B (HP 3235 345xx switch family). Channel map, volts, and amperes are on the 34522B 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.