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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34505A

Agilent Keysight 34505A 3235 switch / multiplexer module Queue model 34505A is the HP 34505A 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34505A. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34505A 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34505A. ATE signal switching in HP 3235 mainframes that specify 34505A. Queue model 34505A is the HP 34505A 3235 switch / multiplexer module for the HP 3235 switching mainframe. Remaining-queue title is Agilent/Keysight 34505A. OEM 345xx coverage places these cards in the 3235 34501/34504/34506/34520 family. Exact channel map, volts, and amperes are on the 34505A 3235 module sheet. Sibling 34501A 32-channel armature mux isadifferent SKU; those published numbers are not copied onto 34505A. ATE signal switching in HP 3235 mainframes that specify 34505A. HP 34505A 3235 3235 switch / multiplexer module



MODEL

**Agilent / Keysight
34505A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34505A

LISTING

<https://aumictechlabs.com/products/34505a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 34405A is a 5.5-digit benchtop digital multimeter delivering dual-display simultaneous readings and 16 measurement functions for precision electronic testing. DC voltage

accuracy reaches $\pm 0.025\%$ of reading + 0.005% of range over one year at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$. The instrument provides true-RMS AC voltage and current measurement, 2-wire resistance, frequency, diode test, continuity, temperature (-80°C to 150°C with appropriate probe), and capacitance (1000 pF to 10000 μF) across auto-ranging measurement ranges. Technical Specifications Resolution is 120,000 counts across a dual display. Reading speed reaches 15 readings/sec at $5\frac{1}{2}$ digits for DC voltage and current, with function changes in 0.6 sec and range changes in 0.7 sec. Auto-range capability completes in 2.2 sec. Over USB, $4\frac{1}{2}$ -digit readings reach 8 readings/sec. AC voltage accuracy (true RMS) is $0.2\% + 0.1\%$ of range from 45 Hz to 10 kHz with crest factor up to 3 at full scale. AC current accuracy follows the same specification from 45 Hz to 1 kHz. The instrument operates from 0°C to 55°C for full accuracy at up to 80% RH (non-condensing) and altitudes to 3000 meters. Dimensions are 103.8 mm $\times$ 261.1 mm $\times$ 303.2 mm (H $\times$ W $\times$ D) in benchtop configuration, with weight of 3.75 kg. Power consumption averages less than 11 W with maximum 16 VA draw. The unit accepts 100V/120V/220V/240V $\pm 10\%$ AC supply at 45 Hz to 66 Hz line frequency. Warm-up to full accuracy requires 30 minutes.

Key Features Dual display for simultaneous independent measurements True-RMS AC measurement capability Math operations: Null, dBm, dB, MinMax, Limit, Hold Auto-ranging across all measurement types

Typical Applications Bench troubleshooting, production testing, field service, and lab characterization of electronic circuits and components requiring multi-function measurement capability.

Compatibility & Integration USB 2.0 interface enables PC connectivity and remote control via SCPI commands. IVI-COM and LabVIEW drivers support automated test sequences and data logging through Agilent/Keysight Connectivity software.

34505A Characteristics / Specifications

PARAMETER	VALUE
Model	34505A
Instrument Type	3235 switch / multiplexer module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34505A 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 34505A
Documentation Type	OEM 34505A listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34505A
Vendor Path	HP / Agilent / Keysight
Year Class	34505A generation
Application Class	3235 switch / multiplexer module
Module Class	3235 switch / multiplexer module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34505A 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 34505A sheet
Current Class	amperes on the 34505A sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

34505A Specifications

PARAMETER	VALUE
Agilent Keysight 34505A 3235 switch / multiplexer module	Overview
Applications	ATE signal switching in HP 3235 mainframes that specify 34505A.
Key Features	HP 34505A 3235 3235 switch / multiplexer module
Technical Specifications	Model: 34505A

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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Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34501A 32-channel armature mux

Notes

From remaining-queue title Agilent/Keysight 34505A (HP 3235 345xx switch family). Channel map, volts, and amperes are on the 34505A 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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.