

**Aumictech**

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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34506B

Agilent Keysight 34506B 3235 switched-shield matrix module Queue model 34506B is the HP 34506B 3235 switched-shield matrix module for the HP 3235 switching mainframe.

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



MODEL

**Agilent / Keysight
34506B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34506B

LISTING

<https://aumictechlabs.com/products/34506b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U3606B is a dual-function benchtop instrument that combines a 5.5-digit digital multimeter with a 30 W DC power supply in a single compact unit. It delivers 120,000-count resolution and up to 0.025% basic DC voltage accuracy, enabling simultaneous measurement and

power delivery for R&D, manufacturing, and service environments.

Technical Specifications

Digital Multimeter

Resolution: 120,000 counts (5.5 digits)

Basic DC Voltage Accuracy: Up to 0.025%

DC Voltage ranges: 1.00000 V, 10.0000 V, 100.000 V, 750.00 V

AC Voltage ranges: 1.00000 V, 10.0000 V, 100.000 V, 750.00 V (reads to 847 V on 750 V range)

AC Voltage accuracy specified for input > 5% of range (> 10% on 100 mV range); 0.003% of full scale per kHz for inputs < 10% of range

Current ranges: 10.0000 mA, 100.000 mA, 1.00000 A, 3.0000 A

AC/DC current measurements with frequency range 50 Hz (5½ digit resolution) and 225 Hz (4½ digit resolution)

2-wire and 4-wire resistance (4-wire milliohm measurement: 0.001 mΩ resolution)

Frequency, continuity, diode test, and capacitance measurement

Eight built-in math functions

20% over-range on all ranges except 750 Vac

Operating temperature: 18 to 28 °C

Calibration cycle: One year at 23 °C ± 2 °C

Specifications valid after 60 minutes warm-up

DC Power Supply

Output power: 30 W maximum

Voltage/current outputs: 30 V / 1 A; 8 V / 3 A; 1000 mV / 3 A; 100 mA / 30 V

Line/load regulation: Up to 0.01% + 3 mV

Over-voltage and over-current protection

Sweep functions: Up to 100 scan steps, up to 10,000 ramp steps (programmable to 105% of full scale)

Square-wave output: Selectable frequencies to 4.8 kHz with variable duty cycle and amplitude

Key Features

Compact one-box form factor - lightweight and portable

USB 2.0 and GPIB connectivity for remote operation

Kensington security lock slot

Multi-level DC bias testing via programmable sweep functions

PWM and synchronous clock generation via square-wave output

Typical Applications

Component and circuit characterization in R&D environments

Production test and burn-in operations

Field service and troubleshooting

Precision DC power delivery with simultaneous monitoring

Compatibility & Integration

USB 2.0 and GPIB interfaces enable integration into automated test systems and direct connection to host computers.

34506B Characteristics / Specifications

PARAMETER	VALUE
Model	34506B
Instrument Type	3235 switched-shield matrix module
Manufacturer	Hewlett Packard / Agilent / Keysight
Literature	HP/Agilent/Keysight 34506B remaining-queue listing
Family	HP 3235 345xx switch modules
Form Factor	3235 plug-in switch module
System Role	3235 switched-shield matrix module
Brand Lineage	HP / Agilent / Keysight
Queue Title	Agilent/Keysight 34506B
Documentation Type	OEM 34506B listing
Use Case	ATE signal switching in HP 3235 mainframes that specify 34506B
Vendor Path	HP / Agilent / Keysight
Year Class	34506B generation
Application Class	3235 switched-shield matrix module
Module Class	3235 switched-shield matrix module
Host Class	HP 3235 switching mainframe
Connector Class	connectors on the 34506B 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 34506B sheet
Current Class	amperes on the 34506B sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34506 switched-shield matrix class named beside 34501M

34506B Specifications

PARAMETER	VALUE
Applications	ATE signal switching in HP 3235 mainframes that specify 34506B.
Key Features	HP 34506B 3235 3235 switched-shield matrix module
Technical Specifications	Model: 34506B

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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Environment Class	3235 mainframe ambient
Mains Class	powered by 3235 mainframe
Voltage Class	volts on the 34506B sheet
Current Class	amperes on the 34506B sheet
Host Mainframe	HP 3235 / 3235A switching mainframe
Sibling	34506 switched-shield matrix class named beside 34501M

Notes

From remaining-queue title Agilent/Keysight 34506B (HP 3235 345xx switch family). Channel map, volts, and amperes are on the 34506B module sheet. Do not copy sibling 34506 switched-shield matrix class named beside 34501M 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.