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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3499B 2-Slot Switch/Control Mainframe

HP Agilent 3499B Switch Control Mainframe The Agilent/HP 3499B is a switch/control system mainframe hosting plug-in switch multiplexer and digital I/O modules for automated test routing. It provides GPIB control of high-density switching in ATE racks. Automated signal routing in production test, multiplexer scanning for DAQ, and control of relays and digital lines in multi-instrument systems. Instrument Type: Switch control mainframe The Agilent/HP 3499B is a switch/control system mainframe hosting plug-in switch multiplexer and digital I/O modules for automated test routing. It provides GPIB control of high-density switching in ATE racks. Automated signal routing in production test, multiplexer scanning for DAQ, and control of relays and digital lines in multi-instrument systems. Instrument Type: Switch control mainframe Module Family: 349xx switch mux DIO modules



MODEL

HP / Agilent 3499B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3499B

LISTING

<https://aumictechlabs.com/products/3499b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 3499B is a 2-slot switch/control mainframe designed for automated test equipment and data acquisition systems requiring flexible signal routing and high-speed switching. This half-rack, 2U instrument supports up to 80 channels with a scanning rate of 350 channels per second and can open or close 80 channels in less than 0.1 second through parallel

driving circuits. The modular platform accommodates plug-in switch and control modules including multiplexers, matrices, digital I/O, Form-C relays, and multifunction modules, with compatibility extending to 3488A-designed modules. Technical Specifications Mainframe capacity: 2 module slots Channel capacity: Up to 80 channels Scanning rate: Up to 350 channels per second Switching speed: 80 channels in less than 0.1 second Power supply: Universal input 100–240 VAC (47–63 Hz); also supports 100–127 VAC at 400 Hz Power consumption: 40 VA maximum Voltage switching capability: Up to 250 V maximum with appropriate modules Current switching capability: Up to 8 A with appropriate modules Dimensions: 4 × 9 × 14 inches; weight 6 lbs Relay cycle counters for preventative maintenance tracking Key Features Parallel driving circuits enable simultaneous switching of multiple channels Configurable firmware supports SCPI and 3488A legacy modes GPIB (IEEE-488) and RS-232 remote control interfaces Built-in 4-bit digital I/O with rear-panel 8-pin Mini DIN connector External triggering capability Memory: Up to 50 instrument setups and 10 errors (Firmware REV 4.0+) in SCPI mode Optional rack-mounting kits available Typical Applications Production ATE and test automation Multi-channel data acquisition High-throughput signal switching and multiplexing RF and microwave component testing Manufacturing floor operations and benchtop integration Compatibility & Integration Supports a broad range of plug-in modules for general-purpose multiplexing, RF/microwave applications, matrix switching, digital I/O, and Form-C relay functions. Compatible with legacy 3488A module designs, enabling integration into existing systems.

3499B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Switch control mainframe
Model	3499B
Remote Interface	GPIB IEEE-488
Module Family	349xx switch mux DIO modules
Form Factor	Rack mount mainframe
Control Modes	Front panel and remote
Intended Use	ATE signal routing
Slot Architecture	Multi-slot plug-in
Switch Types Supported	Multiplexer matrix general purpose relay class via modules
Scan Capability	yes with compatible mux modules
Digital IO Capability	via DIO modules
Power	AC line powered mainframe
Cooling	Forced air class rack instrument
Status Indicators	Slot and system status
Triggering Class	External trigger support on family
Memory Class	Scan lists and setups stored in system
Expandability	Multiple modules per mainframe
Isolation Class	Module dependent relay isolation
Bandwidth Class	Module dependent
Max Voltage Class	Module dependent
Max Current Class	Module dependent
Software Control	SCPI style switch commands on Agilent family
Safety Interlock Class	System dependent
Bench Alias	Also used on benchtop ATE carts
Bandwidth	Class: Module dependent

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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Notes

Mainframe role from Agilent 3499A/B switch/control system literature. Electrical limits are module-specific (for example 34921A armature mux); see module OEM files for contact ratings.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.