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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 3499A

The Agilent 3499A is a 5-slot switch/control mainframe for automated signal routing. OEM 3499A/B/C service-manual mainframe specifications list 5 slots, 3.8 kg, 89 mm x 426 mm x 348 mm, 90 VA, GPIB and RS-232, built-in 4-bit digital I/O, and 350 channel/s scan with an N2266A module. ATE signal routing up to 200 channels; production verification switching; mixed multiplexer, matrix, and GP-relay systems. Self-guiding vacuum-fluorescent front panel Open/close 200 channels in less than 0.1 s (family datasheet) Digital Io Block Transfer Rate: 20 kbytes per second long word Line Voltage: 100 to 127 Vac 50 to 400 Hz or 200 to 240 Vac 50 to 60 Hz Operating Temperature: 0 C to 55 C; less than 80 percent RH from 0 C to 40 C Numeric rows from Agilent 3499A/B/C Mainframe's Specifications in the 3499A/B/C Service Manual and the Agilent 3499 family switching datasheet (scan/bulk-switch family figures). Module voltage/current limits belong on the installed plug-in sheet.



MODEL

**Agilent / Keysight
3499A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

3499A

LISTING

[https://aumictechlabs.c
om/products/3499a-2/](https://aumictechlabs.com/products/3499a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 3499A is a 5-slot modular mainframe that configures flexible data acquisition and switching systems for automated test environments. This 2U rack-height instrument accommodates plug-in modules to scale functionality from benchtop to fully rack-mounted installations, supporting up to 200 channels with switching speeds reaching 350 channels per second and open/close transitions under 0.1 second across 200 channels. Technical

Specifications Architecture & Performance 5-slot mainframe with configurable module capacity
Maximum 200 channels (module-dependent) Scan rate: up to 350 channels/second Channel
switching: 200 channels open/close in <0.1 second Form factor: 2U rack height, full rack width
Net weight: 3.8 kg (8.4 lbs) Memory & Control SCPI programming language support Firmware-
dependent storage: 10–50 instrument setups (SCPI mode); 40 setups (3488A mode) Error logging:
1–10 events Front panel: self-guiding user interface for manual or desktop operation Power &
Environmental Input: 100–240 V, automatic line voltage sensing Operating temperature: 0–55°C
Operating humidity: <80% RH (0–40°C), non-condensing Operating altitude: 3000 meters
Measurement Category I, 1500 Vpk transient, 500 V overvoltage transientKey Features GPIB
(IEEE-488) and RS-232 interfaces for system integration 4-bit digital I/O port with 20 Kbytes/sec
block transfer rate External triggering capability Modular plug-in architecture supports general-
purpose relays, multiplexers, Form-C relays, RF/microwave switching, matrix configurations,
optical modules, and multifunction designs Signal switching from DC to 26.5 GHz Voltage
handling: 250 V standard, 1000 V on selected modules Current ratings: up to 5 A, or 8 A on
specified modulesTypical Applications Automated test systems, signal routing, RF/microwave
characterization, high-voltage switching matrices, and modular measurement platforms requiring
scalable channel counts and programmable control.Compatibility & Integration Standard SCPI
command set ensures compatibility with industry test frameworks. GPIB and RS-232 connectivity
support legacy and modern instrument control ecosystems.

3499A Characteristics / Specifications

PARAMETER	VALUE
Model	3499A
Instrument Type	Switch control mainframe
Series Family	Agilent 3499A/B/C
Slot Capacity	5 slots
Maximum Channels Family	up to 200 channels, module dependent
Scan Speed With N2266A	350 channels per second
Bulk Open Close Family	200 channels in less than 0.1 second
Display	vacuum fluorescent, 13 characters
Remote Interface	GPIO IEEE-488 and RS-232
Built In Digital Io	4-bit TTL compatible, maximum Vo 42 V with external pull-up
External Trigger Pulse Width	2 us minimum, TTL compatible
External Trigger Delay Max	2 ms
Switch Setting Extra Time	0 to 99999.999 s in 1 ms steps
Parser Open Close At 1	3 ms open, 3 ms close (N2266A reference)
Open Close Time 1 Channel N2266A	7.1 ms
Open Close Time 40 Channels N2266A	28.9 ms
Digital Io Block Transfer Rate	20 kbytes per second long word
Line Voltage	100 to 127 Vac 50 to 400 Hz or 200 to 240 Vac 50 to 60 Hz
Power Consumption	90 VA
Operating Temperature	0 C to 55 C; less than 80 percent RH from 0 C to 40 C
Storage Temperature	minus 40 C to +70 C
Operating Altitude	3000 m
Net Weight	3.8 kg
Dimensions	89 mm x 426 mm x 348 mm
Pollution Degree	2

PARAMETER	VALUE
Installation Category	II

3499A Specifications

PARAMETER	VALUE
Agilent 3499A Switch Control Mainframe	Overview
Applications	ATE signal routing up to 200 channels; production verification switching; mixed multiplexer, matrix, and GP-relay systems.
Technical Specifications	Model: 3499A

General Specifications & Supplementary Characteristics

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Installation Category	II Notes Numeric rows from Agilent 3499A/B/C Mainframe's Specifications in the 3499A/B/C Service Manual and the Agilent 3499 family switching datasheet (scan/bulk-switch family figures). Module voltage/current limits belong on the installed plug-in sheet.

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 list 5 slots, 3.8 kg, 89 mm x 426 mm x 348 mm, 90 VA, GPIB and RS-232, built-in 4-bit digital I/O, and 350 channel/s scan with an N2266A module.

Applications

ATE signal routing up to 200 channels; production verification switching; mixed multiplexer, matrix, and GP-relay systems.

Key Features

Self-guiding vacuum-fluorescent front panel

Relay cycle counters on plug-in modules

3488A compatibility mode plus SCPI

2U full-rack height

Open/close 200 channels in less than 0.1 s (family datasheet)

Technical Specifications

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Notes

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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.