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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 3498A Extension Mainframe

HP Agilent 3498A Extension Mainframe for 3497A Data Acquisition The HP 3498A is an extension mainframe for the 3497A Data Acquisition/Control Unit. It adds card slots for additional 3497A-family plug-in assemblies (relays, DIO, D/A, counters) so a 3497A system can grow beyond the mainframe slot count. The 3497A remains the controller/DMM host; 3498A is the extender cage. Expanding 3497A scanned analog and digital I/O; large-channel data acquisition; 444xxx plug-in cards including 44422A thermocouple mux in this catalog. The HP 3498A is an extension mainframe for the 3497A Data Acquisition/Control Unit. It adds card slots for additional 3497A-family plug-in assemblies (relays, DIO, D/A, counters) so a 3497A system can grow beyond the mainframe slot count. The 3497A remains the controller/DMM host; 3498A is the extender cage. Expanding 3497A scanned analog and digital I/O; large-channel data acquisition; 444xxx plug-in cards including 44422A thermocouple mux in this catalog.

**MODEL****Keysight / Agilent /
HP 3498A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****3498A****LISTING**[https://aumictechlabs.c
om/products/3498a-2/](https://aumictechlabs.com/products/3498a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight / Agilent / HP 3498A is an extension mainframe for modular data acquisition and automated test systems. Designed to expand a primary controller such as the 3497A, it

accommodates up to 10 plug-in assemblies and scales to support complex measurement and control applications with significantly increased I/O channel capacity. Technical Specifications Mainframe capacity: 10 plug-in assemblies per unit Scalability: One 3497A supports up to thirteen 3498A extension mainframes for a total of 135 plug-in assemblies Maximum analog assemblies: 45 Maximum digital assemblies: 85 Maximum channel capacity: 1000 analog channels or 1360 digital channels Power supply: Switch-selectable AC input at 110, 120, 220, and 240 volts $\pm 10\%$, 48–66 Hz Physical dimensions: 190.5 mm H $\times$ 428.6 mm W $\times$ 520.7 mm D (7" $\times$ 16" $\times$ 20") Net weight (fully populated): 20.4 kg (45 lb) Shipping weight: up to 26.3 kg (58 lb) Key Features Requires 3497A or 34980A primary controller for operation Modular plug-in architecture for custom system configuration Connectivity managed through controlling mainframe; 3497A provides HP-IB interface Flexible mixed-module support for analog and digital assemblies Typical Applications Multi-channel data logging, automated test sequencing, distributed sensor networks, and control system integration where expansion beyond a primary controller's slot capacity is required. Compatibility & Integration Designed as an extension chassis for the HP 3497A Data Acquisition/Control Mainframe and referenced as Option 298 when paired with the 3497A. Also compatible with the 34980A Multifunction Switch/Measure Unit. Legacy product; Keysight's 34980A offers modern alternatives with integrated DMM, scan rates to 1000 channels/second, and LAN/USB/GPIB connectivity.

Features & description

From manufacturer datasheet

Features

- Slot extender for 3497A (notastandalone DMM)

3498A Characteristics / Specifications

PARAMETER	VALUE
Model	3498A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Data Acquisition Extension Mainframe
Family	3497A/3498A
Alias	3498A; HP 3498A
Function	extension cage for 3497A plug-in cards
Controller Host	3497A Data Acquisition/Control Unit (required)
Standalone DMM	no (3497A provides measurement/control)
Compatible Cards	3497A family assemblies (44421A 44422A 44425A 44428A class)
Related 44422A	thermocouple relay mux plus compensation terminal (this catalog)
Slot Addition	additional plugin slots vs 3497A mainframe alone
Interconnect	3497A to 3498A extender cable/bus
Form	rack/system extender mainframe
Line Power	mains powered extender
Cooling	internal fans/airflow
Status	HP 3498A EOL
Not 3499A	different switch family
Not 34970A	different DAQ family
Not 34980A	different modular switch
Digital Cards	3497A DIO/DAC/counter plugins
Analog Bus	scanned analog to 3497A voltmeter
Programming	via 3497A HP-IB (extender is transparent)
Card Guides	3497A-style assemblies
Use	channel expansion
Documentation	3497A/3498A operating manual

PARAMETER

VALUE

Service

serial-prefix extender backplane Notes 3498A is the HP 3497A extension mainframe. Card voltage/current and DMM accuracy come from the 3497A and the installed 444xx assemblies not from the empty extender. Confirm extender cable and slot population.

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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Specifications

PARAMETER	VALUE
Status	HP 3498A EOL
Not 3499A	different switch family
Not 34970A	different DAQ family

Specifications

PARAMETER	VALUE
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Documentation: 3497A/3498A operating manual

Service: serial-prefix extender backplane

Notes

3498A is the HP 3497A extension mainframe. Card voltage/current and DMM accuracy come from the 3497A and the installed 444xx assemblies not from the empty extender. Confirm extender cable and slot population.

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.