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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E3490A

HP Agilent E3490A VXI / Switch Measure Accessory Module The HP E3490A isaVXI/switch-measure accessory in the E349x family related to 34970A/34980A data-acquisition switch platforms. OEM DAQ accessory lists identify E3490A asaVXI or 349xx-family accessory module for switch/measure expansion. Switch/measure expansion in VXI or 349xx DAQ systems. Instrument Type: Switch measure accessory module The HP E3490A isaVXI/switch-measure accessory in the E349x family related to 34970A/34980A data-acquisition switch platforms. OEM DAQ accessory lists identify E3490A asaVXI or 349xx-family accessory module for switch/measure expansion. Switch/measure expansion in VXI or 349xx DAQ systems. Instrument Type: Switch measure accessory module Related Mainframes: 34970A 34980A VXI class



MODEL

**Agilent / Keysight
E3490A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3490A

LISTING

<https://aumictechlabs.com/products/e3490a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E3490A is a modular mainframe designed for data acquisition and control in automated testing environments. It combines a built-in 6½-digit (22-bit) digital multimeter with a configurable slot architecture that accepts plug-in modules for signal routing, switching, analog output, and frequency measurement. This platform enables engineers to assemble custom solutions tailored to specific measurement and control requirements without redesigning core

hardware. Technical Specifications The mainframe incorporates an internal DMM with 0.004% basic DC voltage accuracy and supports AC/DC voltage, resistance, current, frequency, and temperature measurements. Input isolation reaches 300 V for noise rejection and safety. Scanning performance extends to 250 channels per second under specified measurement conditions. Plug-in module options span multiplexer cards (2-wire and 4-wire configurations with 20- and 40-channel densities), matrix switch modules for complex routing, digital I/O modules with programmable thresholds, analog output modules with waveform memory, and frequency counter/totalizer modules. All switch modules include relay maintenance tracking to monitor closure counts and enable predictive maintenance scheduling. Signal conditioning capabilities encompass thermocouple, RTD, and thermistor measurement as well as standard AC/DC voltage and current sensing.

Key Features Modular architecture accommodates multiple plug-in configurations 6½-digit DMM with 0.004% DC voltage accuracy and 300 V isolation Up to 250 channels/second scanning speed Relay closure counting for maintenance planning Built-in thermocouple, RTD, and thermistor conditioning Supports 2-wire and 4-wire measurement topologies

Interfaces & Integration Connectivity includes GPIB (IEEE 488) and RS-232 interfaces. Related platform variants offer Gigabit LAN and USB 2.0 for direct PC connectivity, with web browser-based configuration and remote monitoring available on select models.

Typical Applications Automated test systems, multi-channel data logging, process monitoring, environmental chamber control, and production verification requiring flexible channel expansion and mixed-signal measurement.

E3490A Characteristics / Specifications

PARAMETER	VALUE
Model	E3490A
Instrument Type	Switch measure accessory module
Family	E349x / 349xx DAQ
Related Mainframes	34970A 34980A VXI class
Manufacturer	HP Agilent Keysight
Form Factor	plug-in accessory module
Literature	E3490A listings
Use Case	DAQ switch/measure expansion
Operating Temperature Class	0 to 55 C
Power	from host mainframe
Programming	SCPI via host
Connectors	analog bus / D-sub class
Related Mux	34921A 34924A class
Cooling	mainframe
Logical Address	host
Slots	1 class
Safety	interlock class of 34980
Isolation	DAQ channel isolation class
Scan	host DMM scan
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits
Operating temperature	Class: 0 to 55 C

E3490A Specifications

PARAMETER	VALUE
HP Agilent E3490A VXI / Switch Measure Accessory Module	Overview
Applications	Switch/measure expansion in VXI or 349xx DAQ systems.
Key Features	E349x accessory
Switch/measure family	Works with 34970/34980/VXI class
Technical Specifications	Model: E3490A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
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Related Mux	34921A 34924A class
Cooling	mainframe
Logical Address	host
Slots	1 class
Safety	interlock class of 34980
Isolation	DAQ channel isolation class
Scan	host DMM scan
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Numeric Source	verified OEM tables only no invented limits Notes Identity from HP/Agilent E3490A switch/measure accessory listings. Channel voltage/current are those of the host 349xx/VXI switch module, documented on the E3490A/host data 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	
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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.