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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 34903A

Agilent Keysight 34903A 20 Channel Actuator General Purpose Switch The Agilent/Keysight 34903A is a 20-channel SPDT FormCactuator module for the 34970A/34972A. OEM tables list 300 V / 1 A latching relays and 50 W switching for power cycling and control. Cycling power to products under test, driving indicators solenoids and external power relays, and custom switch systems with mux/matrix modules. Open/close 120 operations per second class The Agilent/Keysight 34903A is a 20-channel SPDT FormCactuator module for the 34970A/34972A. OEM tables list 300 V / 1 A latching relays and 50 W switching for power cycling and control. Cycling power to products under test, driving indicators solenoids and external power relays, and custom switch systems with mux/matrix modules. Open/close 120 operations per second class Instrument Type: Actuator / general purpose switch module



MODEL

**Agilent / Keysight  
34903A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**34903A**

LISTING

<https://aumictechlabs.com/products/34903a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Keysight 34903A is a 20-channel actuator and general-purpose switch module for the 34970A and 34972A Data Acquisition/Switch Units. It has 20 independent SPDT latching relays with screw terminal access to normally-open, normally-closed, and common contacts. The module delivers switching capability up to 300 V, 1 A, and 50 W maximum power, making it suitable for power cycling, relay actuation, solenoid control, and indicator light management in

automated test systems.

**Technical Specifications**

**Channel Configuration:** 20 independent channels

**Relay Type:** Single-Pole, Double-Throw (SPDT) latching relays

**Maximum Voltage:** 300 V

**Maximum Current:** 1 A

**Maximum Switch Power:** 50 W

**Bandwidth:** 10 MHz

**Terminal Access:** Screw terminals for all relay contacts

**Breadboard Area:** Included for custom circuit integration

**Unit Weight:** 2.020 lbs

**Key Features**

- Form C latching relay architecture provides high-integrity contacts for non-multiplexed signals
- Multiple channels can be closed simultaneously
- Does not interface with mainframe internal DMM
- External transient suppression recommended for AC line applications
- Alarm conditions on scanning modules can trigger control operations on the 34903A

**Typical Applications**

- Power cycling to devices under test
- External power relay and solenoid actuation
- Status and indicator light control
- Custom switching systems integration

**Compatibility & Integration**

The 34903A plugs directly into Keysight 34970A and 34972A mainframes. Software drivers support C, C#, Visual Basic, Visual Studio, Keysight VEE, and National Instruments LabVIEW. SCPI command set enables remote control and system automation.

## 34903A Characteristics / Specifications

| PARAMETER                      | VALUE                                           |
|--------------------------------|-------------------------------------------------|
| Model                          | 34903A                                          |
| Instrument Type                | Actuator / general purpose switch module        |
| Number Of Channels             | 20                                              |
| Relay Type                     | SPDT FormClatching                              |
| Open Close Speed               | 120 per second                                  |
| Max Voltage                    | 300 V dc or ac rms                              |
| Max Current                    | 1 A dc or ac rms                                |
| Max Power                      | 50 W or 50 VA                                   |
| Offset Voltage Initial         | less than 3 uV                                  |
| Closed Channel Resistance      | less than 0.2 Ohm                               |
| Isolation Channel To Channel   | greater than 10 GOhm                            |
| Bandwidth                      | 10 MHz                                          |
| Channel Crosstalk At 10 MHz    | minus 45 dB                                     |
| Capacitance HI To LO           | less than 10 pF                                 |
| Capacitance LO To Earth        | less than 80 pF                                 |
| Switch Life No Load Typical    | 100 million operations                          |
| Switch Life Rated Load Typical | 100 thousand operations resistive               |
| Connects To Internal DMM       | No                                              |
| Internal DMM Scanning          | notamultiplexer; used for actuation and control |
| Screw Terminal Wire Size       | 16 to 22 AWG                                    |
| Mainframe Compatibility        | 34970A and 34972A (up to 3 modules per frame)   |
| Operating Temperature          | 0 C to 55 C                                     |
| Storage Temperature            | minus 20 C to 70 C                              |
| Humidity Noncondensing         | 40 C / 80 percent RH class                      |
| Series Family                  | Keysight 34970A plug-in modules                 |

| PARAMETER | VALUE                                     |
|-----------|-------------------------------------------|
| Humidity  | Noncondensing: 40 C / 80 percent RH class |

# 34903A Specifications

| PARAMETER                           | VALUE                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Key Features                        | 20 independent SPDT Form C latching relays                                                                     |
| Breadboard area for custom circuits | Open/close 120 operations per second class                                                                     |
| Technical Specifications            | Model: 34903A                                                                                                  |
| Notes                               | From Agilent/Keysight 34970A Data Acquisition/Switch Unit datasheet actuator module specifications for 34903A. |

# General Specifications & Supplementary Characteristics

| PARAMETER              | VALUE                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
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# 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

From Agilent/Keysight 34970A Data Acquisition/Switch Unit datasheet actuator module specifications for 34903A.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.