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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 34923A 40/80 Channel Reed Multiplexer for 34980A

Keysight Agilent 34923A 40/80-Channel Reed Multiplexer for 34980A The Keysight 34923A is a high-speed reed multiplexer for the 34980A configurable as 40 two-wire or 80 one-wire channels. OEM 34980A datasheet rates plus or minus 150 V peak switching, 0.5 A switch / 1.5 A carry, 45 MHz bandwidth, and 500 channel/s scan rates to the internal DMM. High-speed scanning of mid-voltage signals into the 34980A internal DMM or external instruments. Configurable 1-wire 2-wire or 4-wire topologies The Keysight 34923A is a high-speed reed multiplexer for the 34980A configurable as 40 two-wire or 80 one-wire channels. OEM 34980A datasheet rates plus or minus 150 V peak switching, 0.5 A switch / 1.5 A carry, 45 MHz bandwidth, and 500 channel/s scan rates to the internal DMM. High-speed scanning of mid-voltage signals into the 34980A internal DMM or external instruments. Configurable 1-wire 2-wire or 4-wire topologies 100 ohm input protection resistors on reed paths



MODEL

**Agilent / Keysight
34923A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34923A

LISTING

<https://aumictechlabs.com/products/34923a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 34923A is a 40/80-channel Reed Multiplexer module for the 34980A Multifunction Switch/Measure Unit mainframe. It delivers high-speed switching for automated test applications

and data acquisition tasks, supporting flexible channel configurations: 40 two-wire channels, 80 one-wire channels, or mixed 2-wire and 4-wire arrangements on a single module. Reed relays enable scan rates up to 500 channels per second when connected to the mainframe's internal DMM.

Technical Specifications

Channel Configuration: 40 two-wire, 80 one-wire, or mixed 2-wire and 4-wire on the same module

Switching Speed: Up to 500 channels/second (with 34980A internal DMM)

Relay Type: Non-latching reed switches organized in two equal banks

Switching Voltage: ± 150 V peak

Switching Current: 0.5 A

Carry Current: 1.5 A

Input Protection: 100 Ω protection resistors on each relay

Direct Current Measurement: Channels 41–44 only; external shunts required for all other channels

Analog Bus Relays: Eight armature relays (four per bank) for Analog Bus connection

Relay Counter: Built-in counter for maintenance planning

Key Features

Flexible mixed-mode configurations support diverse test requirements

Non-latching relay design with integrated input protection

Standard 50-pin D-sub connectors compatible with existing infrastructure

Optional terminal blocks available for 2-wire (34923T-001) and 1-wire (34923T-002) configurations

Relay counter enables predictive maintenance scheduling

Typical Applications

High-throughput automated test systems

Multi-channel data acquisition and monitoring

General-purpose scanning with rapid channel switching

Current measurement via user-supplied external shunts

Compatibility & Integration

Designed exclusively for the Keysight 34980A mainframe. Up to eight plug-in modules can be installed in a single mainframe. Multiple multiplexer modules connect to the built-in Analog Buses, enabling expanded scanning capacity across the system.

34923A Characteristics / Specifications

PARAMETER	VALUE
Model	34923A
Instrument Type	Reed multiplexer module
Host Mainframe	34980A
Channel Count 2 Wire	40
Channel Count 1 Wire	80
Max Volts	plus or minus 150 V peak
Switch Current	0.5 A
Carry Current	1.5 A
Bandwidth	45 MHz
Scan Rate To Internal Dmm	500 channels/s
Offset Per Channel Class	less than 50 uV
Relay Type	reed
Input Protection Resistors	100 ohm
Configurations Supported	1-wire 2-wire 4-wire
Temperature Measurement Path	supported on 2-wire path per matrix table
Current Measurement Path	supported per matrix table
Connector Kit Example	Y1139A 50-pin female solder cup
Form Factor	34980A plug-in module
Switching Speed Class	high-speed reed family
Transient Limit Class	150 V peak rating per datasheet table
Bank Architecture Class	dual-bank reed multiplexer
Dmm Path	internal 34980A DMM scanning supported
Analog Bus	supported
Related Reed Mux 34924A Channels	70
Related Reed Mux 34924A Bandwidth	25 MHz

34923A Specifications

PARAMETER	VALUE
Applications	High-speed scanning of mid-voltage signals into the 34980A internal DMM or external instruments.
Reed relay multiplexer for fast scanning	Configurable 1-wire 2-wire or 4-wire topologies
Scan rates to 500 channels/s with internal DMM	Analog bus connectivity within 34980A
Technical Specifications	Model: 34923A
Notes	From Keysight 34980A Multifunction Switch/Measure Unit data sheet multiplexer summary table for 34923A.

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 Keysight 34980A Multifunction Switch/Measure Unit data sheet multiplexer summary table for 34923A.

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

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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.