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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 34934A Quad 4×32 Reed Matrix for 34980A

Keysight Agilent 34934A Quad 4×32 Reed Matrix for 34980A The Keysight 34934A is a high-density reed matrix module for the 34980A configured as four 4×32 matrices. OEM 34980A datasheet rates plus or minus 100 V peak, 0.5 A switch and carry, 20 MHz bandwidth, 500 channel/s class scanning, and row-expansion kit support. High-density crosspoint switching for automated functional test and signal routing in 34980A systems. Single-wire configuration path to increase channel count The Keysight 34934A is a high-density reed matrix module for the 34980A configured as four 4×32 matrices. OEM 34980A datasheet rates plus or minus 100 V peak, 0.5 A switch and carry, 20 MHz bandwidth, 500 channel/s class scanning, and row-expansion kit support. High-density crosspoint switching for automated functional test and signal routing in 34980A systems. Single-wire configuration path to increase channel count Automatic surge protection and row disconnect



MODEL

**Agilent / Keysight
34934A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34934A

LISTING

<https://aumictechlabs.com/products/34934a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 34934A is a high-density quad 4×32 reed matrix module engineered for signal routing and switching within the Keysight 34980A Multifunction Switch/Measure Unit mainframe.

This 512-crosspoint matrix delivers flexible circuit connectivity for production test environments and multipoint measurement applications where signal integrity and relay longevity are critical. The module supports multiple matrix topologies - from independent 1-wire configurations to combined 2-wire matrices - and scales to 4096 crosspoints when multiple modules are linked within a single mainframe.

Technical Specifications

Switching Performance

Matrix configurations: Quad 4×32, Dual 4×64, Single 4×128, Dual 8×32, Single 8×64, Single 16×32

Total crosspoints: 512

Maximum expandable crosspoints: 4096 (module-linked)

Switch/carry current: 0.5 A

Switch voltage: 100 V

Bandwidth: 20 MHz

Channel resistance: <1.5 Ω (typically); up to 50 Ω for loads <10 mA

Relay Characteristics

Type: Reed relays with low thermal offset

Integrated relay cycle counter for predictive maintenance and life monitoring

Connectivity Standard 78-pin D-sub connectors

Optional configuration blocks and high-density screw terminal blocks (34934T/001, 34934T/002)

Row disconnect and row protection bypass switch features

Key Features

Selectable 1-wire and 2-wire configurations for diverse circuit topologies

Row expansion capability - link multiple modules to create larger matrices without external switching logic

Low thermal offset minimizes measurement errors in precision applications

Input resistance: 100 Ω $\pm$ 1% (0.25 W; TC = $\pm$ 100 ppm/°C)

Relay cycle counter enables condition-based maintenance scheduling

Typical Applications

Production test environments requiring high-density switching

Multipoint automated measurements on complex circuit boards

Signal routing for parametric and functional test suites

Applications demanding high-speed path switching and low crosstalk

Compatibility & Integration

The 34934A operates exclusively within the Keysight 34980A mainframe. Terminal blocks and expansion kits are available as optional accessories to support custom connector configurations and row-linked matrix expansion.

34934A Characteristics / Specifications

PARAMETER	VALUE
Model	34934A
Instrument Type	Quad reed matrix module
Host Mainframe	34980A
Matrix Organization	quad 4×32
Max Volts	plus or minus 100 V peak
Switch Current	0.5 A
Carry Current	0.5 A
Bandwidth	20 MHz
Scan Rate Class	500 channels/s
Offset Per Channel Class	less than 50 uV
Relay Type	reed
Input Protection Resistors	100 ohm plus or minus 1 percent 0.25 W
Protection Resistor Tc	plus or minus 100 ppm/C
Single Wire Configuration	supported
Row Expansion Kit	supported
Analog Bus Combining	supported
Connector Style	dual 78-pin
Terminal Block Companion	34934T
Form Factor	34980A plug-in module
Crosspoint Wiring	two-wire high/low per crosspoint in standard mode
Inrush Protection	column in-rush resistors documented
Related Matrix 34933A Organization	dual/quad 4×8
Related Matrix 34933A Max Volts	plus or minus 150 V peak
Related Matrix 34933A Bandwidth	30 MHz

34934A Specifications

PARAMETER	VALUE
Keysight Agilent 34934A Quad 4×32 Reed Matrix for 34980A	Overview
Applications	High-density crosspoint switching for automated functional test and signal routing in 34980A systems.
Key Features	Quad 4×32 reed matrix density
Automatic surge protection and row disconnect	Row expansion kit combining multiple modules
Technical Specifications	Model: 34934A
Notes	From Keysight 34980A data sheet matrix switch module table and 34934A feature section.

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 data sheet matrix switch module table and 34934A feature section.	

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.