

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34904A

Agilent Keysight 34904A 4×8 Two Wire Matrix Switch The Agilent/Keysight 34904A is a 4×8 two-wire armature matrix for the 34970A/34972A providing 32 crosspoints. OEM tables list 300 V / 1 A switching so multiple instruments can connect to multiple DUT points at once. Flexible ATE path switching, combining rows or columns across modules for 8×8 or 4×16 matrices up to 96 crosspoints in one frame. Any combination of inputs and outputs can be connected at a time The Agilent/Keysight 34904A is a 4×8 two-wire armature matrix for the 34970A/34972A providing 32 crosspoints. OEM tables list 300 V / 1 A switching so multiple instruments can connect to multiple DUT points at once. Flexible ATE path switching, combining rows or columns across modules for 8×8 or 4×16 matrices up to 96 crosspoints in one frame. Any combination of inputs and outputs can be connected at a time Expandable by tying rows or columns between modules



MODEL

**Agilent / Keysight
34904A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34904A

LISTING

<https://aumictechlabs.com/products/34904a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 34904A is a 4×8 matrix switch module that establishes flexible connection paths between test instruments and devices under test (DUT). Designed for integration with the 34970A and 34972A Data Acquisition/Switch Units, it enables simultaneous multi-point switching in automated test and data acquisition systems. Technical Specifications Matrix Configuration: 4×8

(32 two-wire crosspoints) Switching Capacity: 300 V, 1 A Crosspoint Count: 32 two-wire crosspoints

Key Features Two-wire matrix topology supports flexible signal routing and measurement distribution Modular design allows row and column expansion between multiple modules Expandable to larger matrices: 8×8, 4×16, or configurations up to 96 crosspoints within a single mainframe Low shipping weight at 4 lb facilitates deployment and reconfiguration

Typical Applications Multi-channel device characterization and validation Parallel component testing with centralized instrumentation Signal distribution and routing in automated test systems Environmental chamber and thermal cycling test setups requiring flexible switching

Compatibility & Integration The 34904A plugs directly into the 34970A or 34972A mainframe. Multiple modules cascade by connecting rows or columns, creating larger switch matrices without requiring separate control infrastructure.

Product Status: This module is discontinued but remains supported. The DAQM904A 4×8 Two-Wire Matrix Module for DAQ970A and DAQ973A systems is identified as the current replacement solution.

34904A Characteristics / Specifications

PARAMETER	VALUE
Model	34904A
Instrument Type	Two-wire matrix switch module
Matrix Size	4 × 8
Number Of Crosspoints	32 two-wire
Wiring	2 wire armature
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 1 Ohm
Isolation Channel To Channel	greater than 10 GOhm
Bandwidth	10 MHz
Channel Crosstalk At 10 MHz	minus 33 dB
Capacitance HI To LO	less than 50 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
Expanded Matrix Class	8×8 or 4×16 by connecting rows or columns between modules
Max Crosspoints Per Frame	96 in a single mainframe
Mainframe Compatibility	34970A and 34972A
Operating Temperature	0 C to 55 C
Storage Temperature	minus 20 C to 70 C
Series Family	Keysight 34970A plug-in modules

34904A Specifications

PARAMETER	VALUE
Agilent Keysight 34904A 4×8 Two Wire Matrix Switch	Overview
Applications	Flexible ATE path switching, combining rows or columns across modules for 8×8 or 4×16 matrices up to 96 crosspoints in one frame.
Key Features	32 two-wire crosspoints (4×8)
Expandable by tying rows or columns between modules	Up to 96 crosspoints in a single 34970A frame
Technical Specifications	Model: 34904A
Notes	From Agilent/Keysight 34970A Data Acquisition/Switch Unit datasheet matrix module specifications for 34904A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 70 C
Operating temperature	0 C to 55 C
Operating Temperature	0 C to 55 C
Series Family	Keysight 34970A plug-in modules Notes From Agilent/Keysight 34970A Data Acquisition/Switch Unit datasheet matrix module specifications for 34904A.

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	
Specifications	
PARAMETER	VALUE
Model	34904A
Instrument Type	Two-wire matrix switch module
Matrix Size	4 x 8
Number Of Crosspoints	32 two-wire
Wiring	2 wire armature
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 1 Ohm
Isolation Channel To Channel	greater than 10 GOhm
Bandwidth	10 MHz
Channel Crosstalk At 10 MHz	minus 33 dB
Capacitance HI To LO	less than 50 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
Expanded Matrix Class	8x8 or 4x16 by connecting rows or columns between modules
Max Crosspoints Per Frame	96 inasingle mainframe
Mainframe Compatibility	34970A and 34972A
Operating Temperature	0 C to 55 C
Storage Temperature	minus 20 C to 70 C
Series Family	Keysight 34970A plug-in modules

Notes

From Agilent/Keysight 34970A Data Acquisition/Switch Unit datasheet matrix module specifications for 34904A.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.