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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 34908A

Agilent Keysight 34908A 40 Channel Single Ended Multiplexer The Agilent/Keysight 34908A is a 40-channel 1-wire armature multiplexer with common LO for the 34970A/34972A. OEM tables list 300 V / 1 A switching, 60 ch/s scanning, and a built-in thermocouple cold junction. High-density common-low scanning for battery test, component characterization, and benchtop measurements into the 34970A internal DMM. Break-before-make; multiple closures not allowed The Agilent/Keysight 34908A is a 40-channel 1-wire armature multiplexer with common LO for the 34970A/34972A. OEM tables list 300 V / 1 A switching, 60 ch/s scanning, and a built-in thermocouple cold junction. High-density common-low scanning for battery test, component characterization, and benchtop measurements into the 34970A internal DMM. Break-before-make; multiple closures not allowed Instrument Type: Single-ended armature multiplexer module



MODEL

**Agilent / Keysight
34908A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

34908A

LISTING

<https://aumictechlabs.com/products/34908a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

Temperature: 0 °C to 55 °C Humidity: 20% to 80% at 40 °C or less (non-condensing) Altitude: Up to 2000 meters Installation Category: II Pollution Degree: 2 Shipping Weight: 4 lb Compatibility & Integration The 34908A plugs directly into Keysight 34970A or 34972A mainframes. Internal signal routing eliminates need for external cabling between the module and host unit's analog

measurement engine. Screw-terminal connections accept standard 22–16 AWG instrumentation wire. Product Status: Discontinued; actively supported.

Features & description

From manufacturer datasheet

Built-in thermocouple reference junction

Connects to the 34970A internal DMM Break-before-make; multiple closures not allowed Technical Specifications Model: 34908A Instrument Type: Single-ended armature multiplexer module Number Of Channels: 40 Wiring: 1 wire common low Max Scan Speed: 60 channels per second Open Close Speed: 70 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 18 dB Capacitance HI To LO: less than 50 pF Capacitance LO To Earth: less than 80 pF Thermocouple Cold Junction Accuracy Typical: 0.8 C Thermocouple Note: thermocouple measurements not recommended due to common LO configuration Four Wire Measurements: not supported Switch Life No Load Typical: 100 million operations Switch Life Rated Load Typical: 100 thousand operations resistive Scanning DCV Rate Family: 60 ch/s into memory class Common Low Isolation: module low isolated from earth and can float up to 300 V Multiple Channel Closures: not allowed at any time Mainframe Compatibility: 34970A and 34972A Operating Temperature: 0 C to 55 C

34908A Characteristics / Specifications

PARAMETER	VALUE
Model	34908A
Instrument Type	Single-ended armature multiplexer module
Number Of Channels	40
Wiring	1 wire common low
Max Scan Speed	60 channels per second
Open Close Speed	70 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 18 dB
Capacitance HI To LO	less than 50 pF
Capacitance LO To Earth	less than 80 pF
Thermocouple Cold Junction Accuracy Typical	0.8 C
Thermocouple Note	thermocouple measurements not recommended due to common LO configuration
Four Wire Measurements	not supported
Switch Life No Load Typical	100 million operations
Switch Life Rated Load Typical	100 thousand operations resistive
Scanning DCV Rate Family	60 ch/s into memory class
Common Low Isolation	module low isolated from earth and can float up to 300 V
Multiple Channel Closures	not allowed at any time

PARAMETER	VALUE
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

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 multiplexer specifications table for 34908A.

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	34908A
Instrument Type	Single-ended armature multiplexer module
Number Of Channels	40
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Multiple Channel Closures	not allowed at any time
Mainframe Compatibility	34970A and 34972A

PARAMETER	VALUE
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 multiplexer specifications table for 34908A.

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>

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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.