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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 34970-66504 DMM Card

Keysight / Agilent / HP Data Acquisition Systems (DAQ). Resolution: ** 6½ digits (22-bit), Accuracy: ** 0.004% basic, Accuracy: ** 0.06% basic.

**MODEL****Keysight / Agilent /
HP 34970-66504****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****34970-66504****LISTING**[https://aumictechlabs.c
om/products/34970-66
504-2/](https://aumictechlabs.com/products/34970-66504-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 34970-66504 is a plug-in DMM card that transforms the 34970A and 34972A Data Acquisition/Switch Units into precision measurement platforms. This module integrates a 6½-digit measurement engine capable of capturing DC/AC voltage and current, 2-wire and 4-wire resistance, temperature via thermocouples/RTDs/thermistors, frequency, and period measurements across 11 distinct signal types. With 0.004% basic DC voltage accuracy and scan rates up to 250 channels/second, the card delivers lab-grade performance within a compact modular form factor. Non-volatile memory stores 50,000 readings on-board. Technical Specifications Resolution: 6½ digits (22-bit) DC Voltage Accuracy: 0.004% basic AC Voltage Accuracy: 0.06% basic Resistance Accuracy: 0.01% basic DC Voltage Range: Microvolts to 300 V DC Current Range: 1 µA minimum AC Current Range: 100 µA minimum Resistance Range: Up to 1000 MΩ Scan Rate: Up to 250 channels/second Storage Capacity: 50,000 readings (non-volatile) Key Features Measures DC/AC voltage, DC/AC current, 2-wire and 4-wire resistance Temperature measurement support for thermocouples, RTDs, and thermistors Built-in thermocouple reference

junction for enhanced accuracy Frequency and period measurement functions 11 different input signals measurable by internal DMM Signal conditioning included - eliminates external accessory dependencies for standard measurements Typical Applications Data logging, multichannel acquisition, automated test systems, temperature monitoring, resistance measurement in production environments, and frequency characterization where integrated switching and measurement are required. Compatibility & Integration The 34970-66504 is a dedicated plug-in module for Keysight 34970A and 34972A mainframes. The 34970A offers GPIB and RS-232 connectivity; the 34972A provides Gigabit Ethernet (LAN) and USB 2.0. The mainframe accommodates up to three modules total.

3497066504 Characteristics / Specifications

PARAMETER	VALUE
Model	34970-66504
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	DMM Card
Alias	34970-66504
Parent Instrument	34970A data acquisition / switch unit
Parent Digits	6.5
Function	internal DMM PCA
Form	service printed-circuit assembly
NotAMux Plugin	34970A 34901A/34902A cards are separate
Related 34401 Board	34401-66501 is 34401A main board
Host Chassis	34970A
Interface Parent	GPIB RS232 on 34970A
Status	Agilent 34970A service part
Installation	match serial prefix
ESD	analog DMM PCA
Documentation	34970A service DMM
Calibration	full 34970A DMM cal after swap
Compatibility	34970A (not 34972A LAN without check)
Use	restore DMM
Identification	34970-66504
Functions Parent	DCV ACV ohms frequency temperature via mux
Max DCV Parent	300 V class 34970A DMM
Power	34970A supplies
Cooling	34970A airflow Notes DMM-card identity from Agilent 34970-66504 for 34970A. After swap calibrate the 34970A. Do not copy 34401A 1000 V ranges onto 34970A without the 34970A sheet.

3497066504 Specifications

PARAMETER	VALUE
Applications	- 34970A DMM board replacement
Key Features	- DMM card 34970-66504
Technical Specifications	Model: 34970-66504

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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PARAMETER	VALUE
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PARAMETER	VALUE
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Form	service printed-circuit assembly
NotAMux Plugin	34970A 34901A/34902A cards are separate
Specifications	
PARAMETER	VALUE
Related 34401 Board	34401-66501 is 34401A main board
Host Chassis	34970A
Interface Parent	GPIB RS232 on 34970A
Specifications	
PARAMETER	VALUE
Status	Agilent 34970A service part
Installation	match serial prefix
ESD	analog DMM PCA

Specifications

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Notes

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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

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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.