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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 34401-66501 Main Board

This is a Keysight / Agilent / HP 34401-66501 Main Board for multimeter. It is a replacement part for the 34401A Digital Multimeter. This board ensures accurate and reliable performance of your instrument.

**MODEL****Keysight / Agilent /
HP 34401-66501****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****34401-66501****LISTING**<https://aumictechlabs.com/products/34401-66501-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight/Agilent/HP 34401-66501 Main Board is a replacement component for the 34401A Digital Multimeter, functioning as the central processing unit and control hub. It orchestrates signal acquisition, data conversion, and measurement operations across voltage, current, resistance, frequency, and continuity testing. This OEM-specification board maintains the accuracy and measurement integrity required in precision instrumentation. Technical Specifications Product Type: Main Board / Replacement Part Manufacturer: Keysight / Agilent / HP Model Number: 34401-66501 Application: Direct replacement for 34401A Digital Multimeter Design Standard: Original equipment manufacturer (OEM) specifications for 34401A Key Features Integrates signal acquisition and processing circuitry for multifunction measurement Supports voltage, current, resistance, frequency, and continuity measurement modes Precision analog-to-digital conversion for measurement data Engineered connectors for integration with display, input terminals, and power supply modules Form factor optimized for 34401A chassis fit and internal

architecture Operates within established operational parameters and defined measurement ranges of the host instrument Typical Applications Replacement service for 34401A multimeters requiring main board replacement due to component failure or obsolescence. Suitable for field repair in calibration labs, service centers, and industrial maintenance environments where instrument uptime depends on genuine OEM parts. Compatibility & Integration Primary Compatibility: Keysight / Agilent / HP 34401A Digital Multimeter This main board can restore full operational capability to the 34401A when installed as a direct replacement. Internal connectors integrate with the display module, measurement input terminals, and internal power distribution. Installation using genuine OEM parts ensures measurement accuracy is preserved and maintains compliance with established calibration standards.

Features & description

From manufacturer datasheet

Applications

- 34401A main-board replacement

3440166501 Characteristics / Specifications

PARAMETER	VALUE
Model	34401-66501
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Main Board
Alias	34401-66501
Parent Instrument	34401A 6.5-digit digital multimeter
Parent Digits	6.5
Parent Functions	DCV ACV DCI ACI 2/4 wire ohms frequency period continuity diode
Parent DCV Best Accuracy	0.0035 percent class 1-year (calibrated 34401A)
Parent Max DCV	1000 V
Function	main analog/digital PCA
Form	service printed-circuit assembly
NotAMeter	board only
Host Chassis	34401A
Interface Parent	GPIB and RS232 on 34401A
Status	HP 34401A service part
Installation	match serial prefix; transfer cal RAM if applicable
ESD	ESD-sensitive analog PCA
Documentation	34401A service/clipping list
Calibration	full 34401A calibration required after swap
Compatibility	34401A only (not 34410A/34411A)
Use	restore 34401A measurement path
Identification	silkscreen 34401-66501
Related Front	34401A front-panel assembly isadifferent dash number

PARAMETER	VALUE
Power Parent	34401A internal supply Notes Main-board identity from HP 34401-66501 for the 34401A. After replacement the instrument needs calibration. Do not treat an uncalibrated board as a 34401A accuracy source.

3440166501 Specifications

PARAMETER	VALUE
Applications	- 34401A main-board replacement
Key Features	- Main PCA 34401-66501
Technical Specifications	Model: 34401-66501

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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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.