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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1412A 6.5-Digit High-Accuracy Multimeter C-Size

Agilent E1412A 6.5 Digit High Accuracy Multimeter The Agilent/Keysight E1412A isaC-size, 1-slot, message-based VXI 6.5-digit multimeter with integrating multi-slope III A/D. OEM datasheet 5965-5563 lists DCV/ACV/DCI/ACI, 2/4-wire ohms, frequency/period, 1000 rdgs/s at 4.5 digits into memory, and best 1-year DCV accuracy of 0.0035 percent of reading on the 10 V range. High-accuracy system DMM measurements, DC voltage ratio, limit testing, and fast range/function changes in VXI ATE. 1000 readings/s into internal memory at 4.5 digits The Agilent/Keysight E1412A isaC-size, 1-slot, message-based VXI 6.5-digit multimeter with integrating multi-slope III A/D. OEM datasheet 5965-5563 lists DCV/ACV/DCI/ACI, 2/4-wire ohms, frequency/period, 1000 rdgs/s at 4.5 digits into memory, and best 1-year DCV accuracy of 0.0035 percent of reading on the 10 V range. High-accuracy system DMM measurements, DC voltage ratio, limit testing, and fast range/function changes in VXI ATE. 1000 readings/s into internal memory at 4.5 digits 65 range changes/s and 30 function changes/s on DCV



MODEL Agilent / Keysight E1412A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU E1412A	LISTING https://aumictechlabs.com/products/e1412a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E1412A is a C-size VXI multimeter module delivering 6.5-digit resolution for high-precision automated test environments. Built on a multi-slope III A/D converter architecture,

it executes DC and AC measurements with exceptional accuracy while maintaining rapid configuration switching - 30 function changes per second and 65 range changes per second. The module integrates 1000-reading internal memory at 4.5-digit resolution and supports dual input impedance modes (10 M Ω / 10 G Ω switchable on DC voltage). Advanced math functions including NULL, MIN/MAX, LIMIT, dB, and dBm calculations enable complex pass/fail assessments with TTL output signaling.

Technical Specifications

Measurement Functions DC Voltage, AC Voltage (True RMS, up to 5:1 crest factor) DC Current (up to 3 A), AC Current (up to 3 A, True RMS) 2-wire and 4-wire Resistance (up to 100 M Ω) Frequency (up to 300 kHz), Period Resolution & Accuracy 6.5-digit resolution. DC voltage accuracy reaches $\pm 0.0019\%$ (24-hour, 23°C $\pm 1^\circ\text{C}$) on optimized ranges; typical performance spans $\pm (0.0030\%$ of reading + 0.0030% of range) at 100 mV to $\pm (0.0020\%$ of reading + 0.0018% of range) at 300 V. AC voltage operates 3 Hz to 300 kHz; 300 Vac limited to 50 kHz. Frequency measurement uses reciprocal counting with gate times from 10 ms to 1 s; signal settling requires up to 1 second. Input Characteristics DC voltage input impedance switches between 10 M Ω and 10 G Ω . AC voltage impedance rated 10 M Ω || <100 pF. Input bias current below 30 pA. Overrange capability is 20% on most ranges; 300 Vac and 3 A ranges support 1% overrange. All ranges protected at 300 V with externally accessible current measurement fuses. Data Acquisition Measurement speed of 1000 readings/s into internal memory at 4.5-digit resolution. One-hour warm-up required for calibration specifications.

Key Features

Switchable input impedance (10 M Ω / 10 G Ω) for measurement flexibility Low input bias current (<30 pA) minimizes circuit loading 4-wire resistance without external NULL calculation adds only 0.2 Ω error versus 2-wire methods TTL limit-check outputs for automated test decision logic Buffered data storage supports high-speed continuous acquisition

Typical Applications

Component characterization, precision calibration verification, mixed-signal circuit validation, and production test environments demanding 6.5-digit resolution with VXIbus integration.

Compatibility & Integration Designed as a 1-slot message-based VXI module, the E1412A integrates directly into VXIbus mainframes and controller systems supporting standard VXI command protocols.

E1412A Characteristics / Specifications

PARAMETER	VALUE
Digits Of Resolution	6.5
Max Voltage Input	300 V
Max Current Input	3 A
Basic 1 Year DCV Accuracy 10 V	0.0035 percent of reading + 0.0005 percent of range
Basic 24 Hour DCV Accuracy 10 V	0.0015 percent of reading + 0.0004 percent of range
DCV Summary Accuracy Statement	plus/minus 0.0019 percent class best accuracy statement on datasheet summary
ACV Maximum	300 V
ACV Basic Accuracy Statement	plus/minus 0.07 percent class summary
ACI Maximum	3 A
DCV Reading Rate 4.5 Digits	1000 rdgs/s
DCV Reading Rate 6.5 Digits 100 NPLC	0.6 rdgs/s at 60 Hz (0.5 at 50 Hz)
DCV Reading Rate 6.5 Digits 10 NPLC	6 rdgs/s at 60 Hz (5 at 50 Hz)
Function Change Rate	30/s
Range Change Rate	65/s
Autorange Time	<30 ms
Frequency Period Digits	6.5 / 5.5 / 4.5
Frequency Period Rate 4.5 Digits	80 rdgs/s
Input Resistance Low DCV Ranges	selectable 10 MOhm or 10 GOhm
Input Resistance 100 V And 300 V	10 MOhm plus/minus 1 percent
Input Bias Current	<30 pA at 25 C
A/D Linearity	0.0002 percent of reading + 0.0001 percent of range
Warmup Time	1 hour
VXI Device Type	message based
Module Size	C
Slots Occupied	1

PARAMETER	VALUE
Connectors	P1/P2
Data Transfer Bus	A16

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

Accuracy and speed numbers from Keysight/Agilent E1412A datasheet 5965-5563 at 6.5 digits after 1-hour warmup where stated. Confirm range-specific tables for installed measurement function.

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.