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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1413A

Keysight E1413A 64 Channel High Speed Scanning A/D Converter The Agilent/HP E1413A is a C-size single-slot VXI high-speed scanning A/D with 64 differential channels, 16-bit conversion, and up to eight signal conditioning plug-ons. It scans up to 100000 samples per second with autoranging and engineering-unit conversion into a FIFO and current value table. Computer aided test, production multi-channel acquisition, temperature strain and voltage scanning, and parallel multi-module VXI data systems. 64 differential channels in one C-size slot The Agilent/HP E1413A is a C-size single-slot VXI high-speed scanning A/D with 64 differential channels, 16-bit conversion, and up to eight signal conditioning plug-ons. It scans up to 100000 samples per second with autoranging and engineering-unit conversion into a FIFO and current value table. Computer aided test, production multi-channel acquisition, temperature strain and voltage scanning, and parallel multi-module VXI data systems. 64 differential channels in one C-size slot 65024 sample FIFO plus current value table



MODEL

**Agilent / Keysight
E1413A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1413A

LISTING

<https://aumictechlabs.com/products/e1413a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1413A is a single-width, C-size VXI data acquisition module that delivers high-speed analog-to-digital conversion for multi-channel measurement systems. It combines 16-bit resolution at up to 100 kHz sampling rate with a 64-channel FET multiplexer and on-board signal conditioning support via plug-on modules, enabling voltage, temperature, strain, and

resistance measurements across mixed-signal applications. Technical Specifications Analog-to-Digital Conversion: 16-bit resolution; 100,000 samples per second maximum Multiplexer: 64-channel FET configuration Data Buffer: 65,024 reading FIFO buffer (dual-ported, 64 kSa capacity); supports Circular Buffer or Block mode Data Format: IEEE 754 32-bit floating-point Current Value Table (CVT): 64 channel data registers in A24 address space for rapid display and control loop access Gain & Offset Correction: Per-channel correction at full scanning rate VXI Interface: A16 and A24 address space; SCPI and Compiled SCPI programming support Key Features On-board calibration sources enable single-command, all-channel calibration Engineering Unit (EU) conversion performed at full speed on-board System wiring offset compensation per channel Signal Conditioning Plug-on (SCP) module support: accepts up to eight SCP modules in any mix Compatible SCP modules include E1501A through E1538A series Optional E1413-60001 Direct Input SCP card provides 8 additional channels Typical Applications Real-time data acquisition in VXI-based test systems Multi-parameter monitoring requiring mixed-signal transducers High-speed scanning across distributed sensor arrays Temperature, strain, and resistance measurement networks PID loop feedback and control system integration Compatibility & Integration Operates as a single VXI module within standard C-size slot architecture. Register-based interface sustains maximum acquisition rate; controllers such as the Raduis EPC-VII maintain full speed with dual E1413A configurations writing to disk at 900 KB/sec. Extended device addressing supports both A16 and A24 register spaces.

E1413A Characteristics / Specifications

PARAMETER	VALUE
Model	E1413A
Instrument Type	high speed scanning A/D converter
Card Format	C size 1 slot VXI
Channel Count	64 differential
ADC Resolution	16 bits
Scan Rate Maximum	100000 samples per second
FIFO Buffer Depth	65024 samples
Current Value Table	latest value per scanned channel
Scan Lists	4 lists
Channels Per Scan List	up to 1024 assignments each
List Of Lists Entries	up to 1024 references
Signal Conditioning Plug On Slots	8
Channels Per SCP	8
Data Format	IEEE 754 32 bit floating point
Engineering Units Conversion	supported
Backplane Transfer	D16 or D32 block transfers
Calibration	on board sources for all channel calibration
Programming	SCPI and compiled SCPI
Device Role	register based scanning subsystem
Self Calibration	automatic all channel calibration
Wiring Offset Compensation	supported
Module Width	singleCsize slot
Full Scale Input Range Class	millivolt to tens of volts with SCPs
Accuracy Class	0.01 percent of reading class family literature
Compatible SCP Examples	E1501A through E1518A and E1531A through E1538A families

PARAMETER	VALUE
Series Family	E1413A E1413B E1413C scanning A/D

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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Data Format	IEEE 754 32 bit floating point
Engineering Units Conversion	supported
Backplane Transfer	D16 or D32 block transfers
Calibration	on board sources for all channel calibration
Programming	SCPI and compiled SCPI
Device Role	register based scanning subsystem
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Notes

Numeric rows from HP/Agilent E1413A/B/C high-speed scanning A/D product literature shared across the E1413 family. Exact range and accuracy depend on installed SCP modules and calibration.

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.