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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP E1432A 16-Channel 51.2 kSa/s Digitizer Plus DSP (w/ Option 1D4)

HP Agilent E1432A 16-Channel 51.2 kSa/s VXI Digitizer plus DSP The HP E1432A isaC-size 1-slot VXI 16-channel digitizer plus DSP. Maximum sample rate is 51.2 kSa/s. Up to four 4-channel input assemblies populate 16 inputs. Optional 1D4 arbitrary source shares the selected sample rate (source active limit 65.536 kHz). Optional UGH local bus. VXI ID 0x201. Multi-channel vibration and acoustic digitizing; VXI DSA-style baseband capture; synchronized 16-channel ATE; source-plus-response with Opt 1D4. The HP E1432A isaC-size 1-slot VXI 16-channel digitizer plus DSP. Maximum sample rate is 51.2 kSa/s. Up to four 4-channel input assemblies populate 16 inputs. Optional 1D4 arbitrary source shares the selected sample rate (source active limit 65.536 kHz). Optional UGH local bus. VXI ID 0x201. Multi-channel vibration and acoustic digitizing; VXI DSA-style baseband capture; synchronized 16-channel ATE; source-plus-response with Opt 1D4.

**MODEL****Keysight / Agilent /
HP E1432A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E1432A****LISTING**<https://aumictechlabs.com/products/e1432a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight/Agilent/HP E1432A is a C-size, single-slot VXI measurement module delivering 16-channel data acquisition and onboard digital signal processing in a single card. It accommodates up to four 4-channel input assemblies, each digitizing at 51.2 kSa/s with 16-bit resolution. A 33

MHz Motorola 96002 DSP processor handles real-time signal processing, while up to 32 MB of DRAM and dual 128K word static RAM banks support high-speed computation and data storage. The module conforms to VXI revision 1.4 standards and integrates transducer signal conditioning, anti-alias filtering, and measurement computation. With Option 1D4, a 16-bit arbitrary source adds sine, random, and arbitrary waveform generation capability with output amplitude of 10 Vp nominal and 50Ω output impedance. Technical Specifications Module Type: C-size, single-slot VXI measurement module VXI Conformance: VXI revision 1.4 Channels: Configurable 4 to 16 channels (four 4-channel input assemblies) Sample Rate: 51.2 kSa/s per channel maximum ADC Resolution: 16 bits DSP Processor: 33 MHz Motorola 96002 Memory: Up to 32 MB DRAM; 2 banks of 128K word static RAM FIFO Depth: 2 MSa/number of active channels (4 MB DRAM standard); 16 MSa/number of active channels (32 MB DRAM with Option ANC) Data Transfer Rates: Local bus 15.7 MB/s; VXI path 15 Mbytes/sec (7.5 Msamples/sec); VME bus 6.9 MB/s (16-bit integer) or 27.6 MB/s (64-bit floating point) Synchronization: 2 or 4 TTL TRG_ lines for multi-module sync Key Features Integrated signal conditioning and anti-alias filtering Onboard DSP for high-speed measurement computation Optional 16-bit arbitrary source (Option 1D4) with sine, random, and arbitrary waveforms Reconstruction filter bandwidth (Arb modes): 0 to 6.4 kHz A24 address and D32 data transfer capability Electrical Specifications Source Output (Option 1D4): 10 Vp nominal amplitude; 50Ω output impedance Source Sample Rate: Matches input channel sample rate; cannot be 40.000 kHz when active Typical Applications Multi-channel vibration monitoring, structural health assessment, acoustic measurement, transducer-based condition monitoring, and integrated data acquisition with real-time DSP processing.

Features & description

From manufacturer datasheet

Features

- Up to 16 analog inputs in one C-size slot

E1432A Characteristics / Specifications

PARAMETER	VALUE
Model	E1432A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	VXI Digitizer plus DSP
Alias	E1432A; HP E1432A
Maximum Sample Rate	51.2 kSa/s (51200 samples per second)
Input Channels	up to 16 (four 4-channel input assemblies)
VXI Size	C-size 1 slot
VXI Model Code	0x201
Manufacturer Code	0xffff (HP/Agilent VXI)
DSP	on-board plus FIFO
Source Option	1D4 arbitrary source (this listing)
Source Sample Lock	source Fs equals input Fs when 1D4 active
Source Rate Limit	not greater than 65.536 kHz when source active
Local Bus Option	UGH
Data Path	FIFO then VME; optional local bus
Decimation	divide by 2 and/or 5 from base Fs
Span Note	top span uses 400 lines to avoid alias
Family E1433A	8 channel 196 kSa/s digitizer + DSP (0x202)
Family E1434A	4 channel 65 kSa/s arbitrary source (0x203)
Substrate ID	0x200 E143xA non-booted substrate
Host	C-size VXI mainframe
Trigger	FIFO trigger to VME dump
Use	baseband multi-channel measurements
Input Assemblies	4-channel cards; count determines populated channels
Cooling	VXI C-size airflow

PARAMETER	VALUE
Status	HP E1432A EOL
Related E1433B	8 channel 196 kSa/s successor
Related E1430A	10 MSa/s 23-bit single channel
Related E1438D	100 MSa/s DSP digitizer Notes Channel count sample rate and Opt 1D4 behavior from HP E1432A VXI digitizer documentation. This listing includes Option 1D4: confirm source option and how many 4-channel input assemblies are populated.

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 Path	FIFO then VME; optional local bus

Specifications

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Family E1433A	8 channel 196 kSa/s digitizer + DSP (0x202)

Specifications

PARAMETER	VALUE
Family E1434A	4 channel 65 kSa/s arbitrary source (0x203)
Substrate ID	0x200 E143xA non-booted substrate
Host	C-size VXI mainframe

Specifications

PARAMETER	VALUE
Trigger	FIFO trigger to VME dump
Use	baseband multi-channel measurements
Input Assemblies	4-channel cards; count determines populated channels

Specifications

PARAMETER	VALUE
Cooling	VXI C-size airflow
Status	HP E1432A EOL
Related E1433B	8 channel 196 kSa/s successor

Related E1430A: 10 MSa/s 23-bit single channel

Related E1438D: 100 MSa/s DSP digitizer

Notes

Channel count sample rate and Opt 1D4 behavior from HP E1432A VXI digitizer documentation. This listing includes Option 1D4: confirm source option and how many 4-channel input assemblies are populated.

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.