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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP E1433A 4-Channel 196 kSa/s Digitizer Plus DSP (w/ Options 1D4, 1DL)

HP Agilent E1433A 196 kSa/s VXI Digitizer plus DSP Options 1D4 and 1DL The HP E1433A isaC-size VXI digitizer plus DSP in the E143x family (VXI model code 0x202). Family maximum is 8 channels at 196 kSa/s. This catalog listing is a 4-channel populated unit with Options 1D4 (arbitrary source) and 1DL (memory). Same DSP/FIFO architecture as E1432A with higher sample rate. Higher-speed multi-channel VXI digitizing versus E1432A; vibration/acoustic with 196 kSa/s; source-plus-response using 1D4; extended capture with 1DL memory. The HP E1433A isaC-size VXI digitizer plus DSP in the E143x family (VXI model code 0x202). Family maximum is 8 channels at 196 kSa/s. This catalog listing is a 4-channel populated unit with Options 1D4 (arbitrary source) and 1DL (memory). Same DSP/FIFO architecture as E1432A with higher sample rate. Higher-speed multi-channel VXI digitizing versus E1432A; vibration/acoustic with 196 kSa/s; source-plus-response using 1D4; extended capture with 1DL memory.

**MODEL****Keysight / Agilent /
HP E1433A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E1433A****LISTING**<https://aumictechlabs.com/products/e1433a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E1433A is a 4-channel VXI digitizer with integrated digital signal processing, delivering 196 kSa/s per-channel sampling in a single C-size module. It combines transducer

signal conditioning, anti-alias filtering, and onboard DSP computation in one instrument, streamlining data acquisition within VXI mainframe systems. Technical Specifications Channels: 4 input channels Sample Rate: 196 kSa/s per channel Resolution: 16 bits Memory: 4 MB RAM (standard); up to 32 MB RAM available Form Factor: C-size, single-slot VXI module DSP: Onboard digital signal processing for real-time computation Key Features Integrated anti-alias protection filters minimize aliasing artifacts in sampled data Transducer signal conditioning for direct sensor interfacing High-speed measurement computation via dedicated onboard DSP engine Message-based VXI architecture for synchronous and asynchronous operations Configurable memory up to 32 MB RAM for extended buffer storage and processing headroom Options 1D4 and 1DL available for specialized hardware configurations Typical Applications Multi-channel transducer data acquisition in structural test systems Real-time signal analysis and waveform processing Simultaneous sampling across four independent measurement channels Integrated sensor conditioning and digitization in VXI test racks Compatibility & Integration VXIbus Architecture: Message-based C-size module compatible with standard VXI mainframes Software: VXIplug&play drivers and SCPI command programming support Interface: Message-based communication via VXI backplane

Features & description

From manufacturer datasheet

Features

- E143x DSP digitizer family at 196 kSa/s

E1433A Characteristics / Specifications

PARAMETER	VALUE
Model	E1433A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	VXI Digitizer plus DSP
Alias	E1433A; HP E1433A
Family Sample Rate	196 kSa/s maximum
Listing Channels	4 (populated on this configuration)
Family Channel Maximum	8
VXI Size	C-size
VXI Model Code	0x202
Installed Option 1D	arbitrary source
Installed Option 1DL	additional memory
DSP	on-board plus FIFO
Host	C-size VXI mainframe 1 slot class
Related E1432A	16 channel 51.2 kSa/s (0x201)
Related E1434A	4 channel 65 kSa/s arbitrary source (0x203)
Related E1433B	8 channel 196 kSa/s base (no 1D4/1DL assumed)
Data Path	FIFO to VME; optional local bus family option
Decimation	family divide-by-2 / divide-by-5 spans
Source Lock	1D4 source Fs tracks digitizer Fs
Use	baseband multi-channel plus optional stimulus
Trigger	VXI/module trigger to FIFO dump
Cooling	VXI C-size airflow
Firmware	E143x boot/DSP firmware
Status	HP E1433A EOL
Input Type	analog digitizer inputs (IEPE/voltage per input assembly)

PARAMETER	VALUE
Connector	front-panel analog per populated input assembly
Not E14	100 MSa/s single-channel DSP family is E1438x Notes Family identity from HP E143x VXI digitizer documentation and this catalog configuration (4-channel with 1D4 and 1DL). Confirm populated channel count and option labels on the module. Do not assume 8 channels unless the input assemblies are present.
This listing	4 populated channels plus 1D4 and 1DL

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
Model	E1433A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	VXI Digitizer plus DSP
Specifications	
PARAMETER	VALUE
Alias	E1433A; HP E1433A
Family Sample Rate	196 kSa/s maximum
Listing Channels	4 (populated on this configuration)
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PARAMETER	VALUE
Family Channel Maximum	8
VXI Size	C-size
VXI Model Code	0x202
Specifications	
PARAMETER	VALUE
Installed Option 1D4	arbitrary source
Installed Option 1DL	additional memory
DSP	on-board plus FIFO
Specifications	
PARAMETER	VALUE
Host	C-size VXI mainframe 1 slot class
Related E1432A	16 channel 51.2 kSa/s (0x201)
Related E1434A	4 channel 65 kSa/s arbitrary source (0x203)

Specifications

PARAMETER	VALUE
Related E1433B	8 channel 196 kSa/s base (no 1D4/1DL assumed)
Data Path	FIFO to VME; optional local bus family option
Decimation	family divide-by-2 / divide-by-5 spans

Specifications

PARAMETER	VALUE
Source Lock	1D4 source Fs tracks digitizer Fs
Use	baseband multi-channel plus optional stimulus
Trigger	VXI/module trigger to FIFO dump

Specifications

PARAMETER	VALUE
Cooling	VXI C-size airflow
Firmware	E143x boot/DSP firmware
Status	HP E1433A EOL

Specifications

PARAMETER	VALUE
Input Type	analog digitizer inputs (IEPE/voltage per input assembly)
Connector	front-panel analog per populated input assembly
Not E1438	100 MSa/s single-channel DSP family is E1438x

Notes

Family identity from HP E143x VXI digitizer documentation and this catalog configuration (4-channel with 1D4 and 1DL). Confirm populated channel count and option labels on the module. Do not assume 8 channels unless the input assemblies are present.

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.