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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP E1433B 8-Channel 196 kSa/s Digitizer Plus DSP (Base Configuration)

Agilent E1433B 8-Channel 196 kSa/s VXI Digitizer plus DSP The Agilent E1433B is the later 8-channel 196 kSa/s C-size VXI digitizer plus DSP in the E143x family. Base configuration (this listing) is the 8-channel digitizer without assuming 1D4 source or extra memory options. Same DSP/FIFO architecture as E1433A with B-revision firmware/hardware. Eight-channel VXI vibration and acoustic capture at 196 kSa/s; synchronized multi-channel ATE; baseband DSP digitizing inaC-size slot. The Agilent E1433B is the later 8-channel 196 kSa/s C-size VXI digitizer plus DSP in the E143x family. Base configuration (this listing) is the 8-channel digitizer without assuming 1D4 source or extra memory options. Same DSP/FIFO architecture as E1433A with B-revision firmware/hardware. Eight-channel VXI vibration and acoustic capture at 196 kSa/s; synchronized multi-channel ATE; baseband DSP digitizing inaC-size slot.

**MODEL****Keysight / Agilent /
HP E1433B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E1433B****LISTING**[https://aumictechlabs.c
om/products/e1433b-2/](https://aumictechlabs.com/products/e1433b-2/)

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NAICS 423690 • 811210 • 541380

This unit

The Keysight E1433B is an 8-channel, 16-bit digitizer module with onboard DSP designed for VXIbus systems. It delivers 196 kSa/s per channel sampling rate and integrates transducer signal conditioning, anti-alias filtering, and real-time measurement computation into a single C-size VXI module. Each channel supports independent range, differential/single-ended, and AC/DC

coupling configuration, eliminating the need for external signal conditioning in many applications.

Technical Specifications

Channels: 8 independent inputs

Resolution: 16-bit

Sampling Rate: 196,608 Sa/s per channel maximum

Memory: 4 MB RAM standard; up to 32 MB available

DSP: Onboard processor for real-time data processing and analysis

Form Factor: C-size, single-wide VXI module (1-slot)

Input Signal Conditioning: Integrated transducer conditioning and anti-alias protection

Channel Configuration: Independent settings per channel - range, coupling mode (AC/DC), and input type (differential/single-ended)

Key Features

Real-time high-speed measurement computation on-module

Compatible with external breakout boxes for voltage, IEPE, microphone, and piezoelectric charge transducers

Option 1D1 enables real-time octave analysis across all eight channels simultaneously (3.15 Hz to 20 kHz third-octave, 4 Hz to 16 kHz full-octave)

Optional tachometer input (Option AYF) and local bus interface (Option UGV)

Optional arbitrary source module (Option 1D4)

Typical Applications

Data acquisition systems requiring simultaneous multi-channel sampling, transducer signal analysis, and onboard DSP computation. Applications include structural health monitoring, vibration analysis, acoustic measurement, and real-time waveform processing in VXI-based test environments.

Compatibility & Integration

Designed for VXIbus systems. Requires external breakout boxes for transducer interfacing. Simplifies system integration by consolidating signal conditioning, filtering, digitization, and computation into a single module.

Features & description

From manufacturer datasheet

Features

- 8 analog channels at 196 kSa/s

E1433B Characteristics / Specifications

PARAMETER	VALUE
Model	E1433B
Manufacturer	Agilent / Hewlett Packard / Keysight
Instrument Type	VXI Digitizer plus DSP
Alias	E1433B; Agilent E1433B
Maximum Sample Rate	196 kSa/s
Input Channels	8
Configuration	base (no 1D4/1DL assumed on this listing)
VXI Size	C-size
DSP	on-board plus FIFO
Predecessor	E1433A 196 kSa/s family
Related E1432A	16 channel 51.2 kSa/s
Related E1434A	4 channel 65 kSa/s arbitrary source
Related E1438D	100 MSa/s DSP digitizer
Host	C-size VXI mainframe
Data Path	FIFO to VME
Local Bus	family optional (confirm on module)
Decimation	family divide-by-2 / divide-by-5 spans
Trigger	module/VXI trigger
Use	baseband 8-channel measurements
Firmware	E1433B revision
Cooling	VXI C-size airflow
Input Assemblies	8-channel population onBbase
Source Option	not included unless 1D4 labeled
Memory Option	not included unless 1DL labeled
Status	Agilent E1433B EOL

PARAMETER	VALUE
Software	VXI plug and play / E143x drivers
Slot Count	1 C-size slot
NotAScope	DSP digitizer not E1428A 1 GSa/s oscilloscope Notes Base 8-channel 196 kSa/s identity from Agilent E1433B catalog configuration. Confirm option labels. Analog input coupling and IEPE current are input-assembly dependent: read the module faceplate.

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

Base 8-channel 196 kSa/s identity from Agilent E1433B catalog configuration. Confirm option labels. Analog input coupling and IEPE current are input-assembly dependent: read the module faceplate.

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.