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Data Sheet

August 2, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP E1434A 4-Channel 65 kSa/sec Arbitrary Source (w/ Option ANC)

Keysight / Agilent / HP E1434A 4-Channel 65 kSa/sec Arbitrary Source (w/ Option ANC) The E1434A provides a 16-bit four-channel arbitrary waveform generator module designed for VXI mainframes, delivering up to 65 kSa/s per channel in C-size VXI form factor with Option ANC installed as listed on the unit. Multi-channel stimulus for ATE and bench test systems; four-channel synchronized arbitrary waveform generation; VXI-based production and R&D test platforms; analog and mixed-signal device characterization with modular VXI hosts; noise and analog-related measurements when Option ANC is present. The E1434A provides a 16-bit four-channel arbitrary waveform generator module designed for VXI mainframes, delivering up to 65 kSa/s per channel in C-size VXI form factor with Option ANC installed as listed on the unit. Multi-channel stimulus for ATE and bench test systems; four-channel synchronized arbitrary waveform generation; VXI-based production and R&D test platforms; analog and mixed-signal device characterization with modular VXI hosts; noise and analog-related measurements when Option ANC is present.



MODEL

**Keysight / Agilent /
HP E1434A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1434A

LISTING

[https://aumictechlabs.c
om/products/e1434a-2/](https://aumictechlabs.com/products/e1434a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight/Agilent/HP E1434A is a 4-channel arbitrary waveform source module for VXI-based test systems. This C-size, 1-slot module delivers flexible signal generation with selectable resolution and bandwidth: configure as four 16-bit channels at 25.6 kHz bandwidth or two 20-bit channels at 6.4 kHz bandwidth. It samples at up to 65 kSa/sec and outputs 1 V_{pk} with 1.2 k Ω output impedance. The E1434A supports arbitrary waveforms (downloadable, glitch-free looping), sine waves (0 Hz to 25.6 kHz with independent frequency/phase/amplitude control per channel), and random noise (periodic or pseudo-random, band-translatable). Onboard DSP and 32 MB RAM (with Option ANC) enable continuous gapless data transfer over the VXI local bus, eliminating host bottlenecks in multi-channel systems. Amplitude flatness is ± 1 dB typical (5 Hz to 20 kHz, scale factor 0.1 to 1.0). Channel pairs are grouped - each pair must output the same waveform type but operates independently from the other pair.

Technical Specifications

Module Type: VXI Plug-in
Module (C-size, 1-slot)
Channels: 4 independent, grouped in pairs
Sampling Rate: Up to 65 kSa/sec
Resolution/Bandwidth (software-selectable): 16-bit @ 25.6 kHz (all 4 channels) or 20-bit @ 6.4 kHz (2 channels)
Output Level: 1 V_{pk}
Output Impedance: 1.2 k Ω (typical)
Amplitude Flatness: ± 1 dB typical (5 Hz–20 kHz, scale factor 0.1–1.0); +10, –7 dB typical (5 Hz–20 kHz, scale factor 0.01–1.0)
RAM: 32 MB (with Option ANC)

Key Features

Arbitrary waveforms with repeating-loop or continuous-concatenation playback
Sine wave generation: 0 Hz to 25.6 kHz, continuous or burst modes
Random noise generation: periodic, pseudo-random, and band-translatable
Onboard DSP and RAM for gapless data transfer over VXI local bus
Dual-resolution architecture for precision control across wide amplitude ranges

Typical Applications

Mechanical, acoustical, and electrical testing
Complex signal generation in demanding test environments
Multi-channel synchronized stimulus in VXI-based systems

Compatibility & Integration

VXI digitizers (E1432A, E1433A/B) integration via register-based VXI bus and local bus communication

Features & description

From manufacturer datasheet

Features

- 4-channel arbitrary waveform generator for VXI • 16-bit DAC resolution • Sample rate up to 65 kSa/s
- C-size VXI module form factor • Option ANC (confirm on unit label–analog/noise-related option class)
- Compatible with Agilent/HP VXI mainframe ecosystems

E1434A Characteristics / Specifications

PARAMETER	VALUE
Model	E1434A (Option ANC)
Manufacturer	Keysight / Agilent / HP
Instrument Type	4-Channel Arbitrary Waveform Generator (VXI)
Channels	4
DAC Resolution	16-bit
Maximum Sample Rate	65 kSa/s
VXI Form Factor	C-size
Installed Option	ANC (confirm on unit)
Alias	E1434A Standard Operating Conditions Install in compatible C-size VXI mainframe slot with adequate cooling. Verify Option ANC presence on module label or configuration record before relying on option-specific capability. Allow VXI host and module initialization per mainframe software requirements.

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

Specifications

PARAMETER	VALUE
Model	E1434A (Option ANC)
Manufacturer	Keysight / Agilent / HP
Instrument Type	4-Channel Arbitrary Waveform Generator (VXI)
Channels	4
DAC Resolution	16-bit
Maximum Sample Rate	65 kSa/s
VXI Form Factor	C-size
Installed Option	ANC (confirm on unit)
Alias	E1434A

Standard Operating Conditions

Install in compatible C-size VXI mainframe slot with adequate cooling. Verify Option ANC presence on module label or configuration record before relying on option-specific capability. Allow VXI host and module initialization per mainframe software requirements.

Operational Notes

Option ANC is listed in the product title-confirm its presence on the specific module before quoting full capability set. E1434A is the Agilent/HP VXI four-channel arbitrary source at 65 kSa/s with 16-bit resolution. Alias E1434A.

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.