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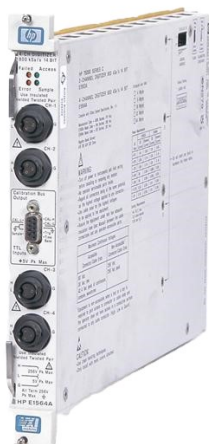
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1564A

Keysight E1564A 800 kSa/s 4 Channel VXI Digitizer The Keysight E1564A isaC-size 1-slot register-based VXI digitizer with four isolated 14-bit channels sampling at up to 800 kSa/s, selectable input filters, and large PC SIMM memory for noisy electromechanical transient capture. Electromechanical design characterization, electronic production transient capture, and continuous digitizing with FIFO unload in electrically noisy environments. Four independently isolated analog channels The Keysight E1564A isaC-size 1-slot register-based VXI digitizer with four isolated 14-bit channels sampling at up to 800 kSa/s, selectable input filters, and large PC SIMM memory for noisy electromechanical transient capture. Electromechanical design characterization, electronic production transient capture, and continuous digitizing with FIFO unload in electrically noisy environments. Four independently isolated analog channels Input ranges to 256 V with 256 V channel isolation

**MODEL****Agilent / Keysight
E1564A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****E1564A****LISTING**<https://aumictechlabs.com/products/e1564a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1564A is a register-based VXI digitizer module housed in a C-size, 1-slot form factor. Designed for electronic production test and electromechanical characterization, this four-channel instrument delivers 14-bit resolution at up to 800 kSa/s per channel and performs reliably in high-noise electrical environments. Simultaneous sampling across all channels enables precise time-correlated transient measurements, while scalable PC SIMM memory - expandable

from 4 Mbytes to 64 Mbytes - captures extended waveform records. Selectable input filters on each channel provide flexible signal conditioning. The module integrates a calibration source with flash ROM and supports both time and event-triggered acquisition modes with programmable pre- and post-trigger windows. Data streams as 16-bit integers corrected for offset and gain errors through either FIFO or flat-file memory architectures.

Technical Specifications

Architecture: Register-based VXI module; C-size, 1-slot

Channels: 4 independent A/D

Resolution: 14-bit per channel

Sample Rate: Up to 800 kSa/s per channel

Memory: PC SIMM, 4 Mbytes to 64 Mbytes scalable

Input Filters: Four selectable per channel

Data Format: 16-bit integer (offset and gain corrected)

Triggering: Time or event modes with programmable pre- and post-trigger counts

Power Consumption: 37.4 W/slot; +5 V (1.1 A IPM / 0.5 A IDM), +12 V (0.6 A IPM / 0.1 A IDM), -12 V (0.6 A IPM / 0.1 A IDM), +24 V (0.01 A IPM / 0.05 A IDM), -24 V (0.01 A IPM / 0.05 A IDM), -5.2 V (0.1 A IPM / 0.01 A IDM), -2 V (0.1 A IPM / 0.01 A IDM)

Pressure Drop: 0.18 mm H₂O

Key Features

- Simultaneous sampling across all four channels using a single internal or external time base
- Integrated calibration source with flash ROM for maintaining measurement accuracy
- Independent channel isolation for clean analog input
- Block-mode data transfers support continuous digitization and transient capture
- SCPI command set and VXIplug&play driver support for automated test integration

Typical Applications

- Electronic production test in high-noise industrial environments
- Electromechanical transient characterization
- Time-correlated multi-channel signal acquisition
- Automated test systems requiring precise trigger and timing control

Compatibility & Integration

- VXIbus register-based architecture ensures compatibility with standard VXI platforms
- Shared programming model with the E1563A for consistent system integration
- SCPI commands and VXIplug&play instrument drivers included

E1564A Characteristics / Specifications

PARAMETER	VALUE
Model	E1564A
Instrument Type	4 channel VXI digitizer
Card Format	C size 1 slot register based VXI
Channel Count	4
ADC Resolution	14 bits including sign
Sample Rate Range	1 Sa/s to 800 kSa/s
Bandwidth Class	greater than 400 kHz all ranges
Input Range Maximum Class	up to 256 V
Channel Isolation	256 V
Common Mode Rejection Low Frequency	113 dB
Input Filters Per Channel	1.5 kHz 6 kHz 25 kHz 100 kHz
Filter Type	selectable 2 pole
Memory Type	PC SIMM
Memory Sizes Supported	4 8 16 32 64 128 Mbyte
Triggering	time or event based
Pre Post Trigger	programmable reading counts
Calibration Bus	High Low Guard plus programmable short
Simultaneous Sampling	all channels with shared time base
Mass Typical Class	about 1.5 kg class module literature
Programming Model	FIFO or flat file with corrected 16 bit integers
Sibling Model	E1563A 2 channel
External Time Base	supported
Register Based	yes
Bandwidth	Class: greater than 400 kHz all ranges

E1564A Specifications

PARAMETER	VALUE
Keysight E1564A 800 kSa/s 4 Channel VXI Digitizer	Overview
Four independently isolated analog channels	800 kSa/s 14 bit converters per channel
Four selectable filters per channel	Input ranges to 256 V with 256 V channel isolation
Technical Specifications	Model: E1564A
Notes	Numeric rows from Agilent E1563A/E1564A digitizer datasheet and user manual specification summary.

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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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.