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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1426A 500 MHz, 4-Channel VXI Oscilloscope

Agilent E1426A 500 MHz 4 Channel VXI Oscilloscope The HP/Agilent E1426A isaC-size VXI digitizing oscilloscope specified as a 500 MHz, 4-channel instrument in OEM product catalogs. OEM user/service manuals document message-based scope operation for multi-channel waveform capture in VXI mainframes. Multi-channel 500 MHz digitizing oscilloscope measurements and automated pulse analysis in C-size VXI systems. Related Higher Rate Scope: E1428A 1 GSa/s 250 MHz The HP/Agilent E1426A isaC-size VXI digitizing oscilloscope specified as a 500 MHz, 4-channel instrument in OEM product catalogs. OEM user/service manuals document message-based scope operation for multi-channel waveform capture in VXI mainframes. Multi-channel 500 MHz digitizing oscilloscope measurements and automated pulse analysis in C-size VXI systems. Related Higher Rate Scope: E1428A 1 GSa/s 250 MHz Triggering: edge and advanced trigger class



MODEL

**Agilent / Keysight
E1426A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1426A

LISTING

<https://aumictechlabs.com/products/e1426a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1426A is a 500 MHz, 4-channel VXI digitizing oscilloscope module engineered for signal acquisition in modular test systems. Using random repetitive sampling (equivalent-time sampling), it achieves 500 MHz bandwidth and 20 ps timebase resolution for

repetitive signals, with single-shot capability limited to 2 MHz and two simultaneous channels. The module delivers 8-bit vertical resolution, upgradeable to 10-bit via averaging, with programmable sensitivities from 8 mV to 40 V full scale. It supports advanced logic triggering including glitch, edge, pattern, time-qualified, state, and trigger-after-delay modes, plus TV triggering for video applications. The C-size, 2-slot VXI component features 64 KB shared memory, dual input impedance (1 M Ω or 50 Ω), AC/DC coupling, and nineteen automatic pulse parameter measurements. Both SCPI and HP 54503A-compatible command sets enable flexible system integration.

Technical Specifications

Bandwidth (Repetitive): DC to 500 MHz (-3 dB)
Bandwidth (Single-Shot): DC to 2 MHz (-3 dB)
Sampling Rate: Up to 20 MSa/s
Channels: 4
Vertical Resolution: 8-bit A/D; 10-bit with averaging
Sensitivity Range: 8 mV to 40 V full scale
Vertical Gain Accuracy (DC): $\pm 1.25\%$ of full scale
Input Impedance: 1 M Ω or 50 Ω (selectable)
Input Capacitance: 7 pF nominal
Input Coupling: AC, DC
Maximum Input Voltage: ± 250 V (1 M Ω); 5 Vrms (50 Ω)
Offset Accuracy: $\pm (0.5\% \text{ of channel offset} + 2\% \text{ of voltage range})$
Offset Range: ± 250 V
Timebase Range: 2 ns to 50 s full scale
Timebase Resolution: 20 ps
Delta-t Accuracy (Repetitive): $\pm (0.2\% \times \text{timebase range} + 0.005\% \times \text{delta-t} + 150 \text{ ps})$
Minimum Trigger Pulse Width: 1.5 ns
Waveform Record Length: Up to 1,024 points (repetitive, multiple triggers); 500 points (20 μ s or slower, single trigger)
Shared Memory: 64 KB
Key Features
Random repetitive sampling for low-duty-cycle signal capture
Simultaneous two-channel single-shot acquisition (channels 1 and 4)
Advanced logic triggering: glitch, edge, pattern, time-qualified, state, trigger-after-delay
TV trigger with line and field selection
Nineteen automatic pulse parameter measurements per IEEE definition
VXI backplane ECL triggering
Dual command set support (SCPI and HP 54503A-compatible)
Compatibility & Integration
Message-based VXI module. C-size, 2-slot configuration.

E1426A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	500 MHz
Analog Channels	4
Module Size	C
Slots Occupied	2
VXI Device Type	message based
Instrument Type	digitizing oscilloscope
Programming	SCPI / scope command set
Product Family	E142x VXI oscilloscopes
Related Higher Rate Scope	E1428A 1 GSa/s 250 MHz
Connectors	P1/P2
Input Paths	front panel scope inputs
Operating Temperature Class	0 to 55 C
Triggering	edge and advanced trigger class
Acquisition Memory Class	onboard waveform memory
Vertical Resolution Class	8 bit digitizing class
Sample Rate Class	tens of MSa/s class per OEM era scope
Calibration	scope calibration path
Probe Compatibility Class	family probe interface
Automatic Measurements Class	pulse parameter measurements
Display Path	controller/host display of fetched waveforms
Form Factor	multi slot C-size
Documentation	E1426A user and service manuals
System Use	VXI ATE waveform capture
Bandwidth	500 MHz
Operating temperature	Class: 0 to 55 C

E1426A Specifications

PARAMETER	VALUE
Agilent E1426A 500 MHz 4 Channel VXI Oscilloscope	Overview
Applications	Multi-channel 500 MHz digitizing oscilloscope measurements and automated pulse analysis in C-size VXI systems.
Four analog acquisition channels	500 MHz bandwidth class VXI scope
Technical Specifications	Analog Bandwidth: 500 MHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
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Operating Temperature Class	0 to 55 C
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Vertical Resolution Class	8 bit digitizing class
Sample Rate Class	tens of MSa/s class per OEM era scope
Calibration	scope calibration path
Probe Compatibility Class	family probe interface
Automatic Measurements Class	pulse parameter measurements
Display Path	controller/host display of fetched waveforms
Form Factor	multi slot C-size
Documentation	E1426A user and service manuals
System Use	VXI ATE waveform capture Notes Bandwidth and 4-channel identity from HP/Agilent E1426A catalog listings; 2-slot C-size message-based form from VXI scope family materials. Confirm sample rate, memory depth, and accuracy tables in the E1426A user manual before relying on those limits.

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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from VXI scope family materials. Confirm sample rate, memory depth, and accuracy tables in the E1426A user manual before relying on those limits.

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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NIST-traceable calibration · SAM registered ·
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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.