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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E8401A

Agilent Keysight HP E8401A C-Size VXI Mainframe 13-Slot 500 W The Agilent E8401A is a 13-slot C-size VXI mainframe providing 500 W usable power with quiet efficient cooling. OEM E8400 Series datasheet rates slots 0 through 12, 90 to 264 Vac operation, and basic front-panel monitoring with diagnostics connector. Automated test and measurement systems hosting C-size VXI instruments with moderate power demand. Innovative quiet air distribution cooling The Agilent E8401A is a 13-slot C-size VXI mainframe providing 500 W usable power with quiet efficient cooling. OEM E8400 Series datasheet rates slots 0 through 12, 90 to 264 Vac operation, and basic front-panel monitoring with diagnostics connector. Automated test and measurement systems hosting C-size VXI instruments with moderate power demand. Innovative quiet air distribution cooling Front-panel diagnostics connector for local or remote monitoring



MODEL

**Agilent / Keysight
E8401A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8401A

LISTING

<https://aumictechlabs.com/products/e8401a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E8401A is a C-size, 13-slot VXI mainframe providing a stable, controlled environment for VXI module integration in general-purpose test systems. It delivers 500 W of usable power with an innovative air distribution system that operates in Variable or Full Speed modes, controlled via front-panel switch. The mainframe features an improved backplane design optimized for high-speed inter-module communication and injector surface rails supporting the

QUIC easy insertion and extraction system. Technical Specifications Form Factor: C-size, 13-slot VXI mainframe Usable Power: 500 W Input Voltage Range: 90 VAC to 264 VAC (47 Hz to 66 Hz); also supports 90 VAC to 132 VAC at 360 Hz to 440 Hz Cooling: Separate power supply cooling fan(s) with independent air path; dual cooling modes for flexible thermal management Backplane: High-speed communication architecture with QUIC injector surface rails for module insertion/extraction Current Capability: Dynamic and peak current capability provisioned for most applications Key Features Efficient, quiet cooling system with selectable fan speed control Front-panel diagnostics connector for continuous local or remote system monitoring Basic mainframe status indicators for quick operational verification VXI Specification, VXIbus, and VXI plug and play compliant architecture Interfaces VXIbus (full compliance) RS-232 connection for mainframe information access Front-panel diagnostics connector supporting local and remote monitoring Compatibility & Integration The E8401A integrates with any VXIbus-compliant module ecosystem and operates within global AC utility standards, supporting both standard industrial frequencies (47–66 Hz) and military/specialized applications (360–440 Hz). RS-232 connectivity enables straightforward integration with legacy and modern test control systems.

E8401A Characteristics / Specifications

PARAMETER	VALUE
Model	E8401A
Series	E8400
Instrument Type	C-size VXI mainframe
Slot Count	13
Slot Labels	0 through 12
Slot 0 Function	reserved for slot-0 controller or command module
Usable Power	500 W
Monitoring Class	basic
Line Voltage	90 to 264 Vac
Line Frequency Primary	47 to 66 Hz
High Frequency Line Path	360 to 440 Hz at 90 to 132 Vac
Backplane Standard	VXIbus C-size
Cooling	innovative air distribution impeller system
Diagnostics Connector	front panel
Remote Monitor Path	diagnostics connector continuous local or remote
Operating Temperature Power Spec	0 to 55 C
Product Family Members	E8401A E8403A E8404A
Size Class	C-size VXI
Controller Examples	E1406 command module and E62xx embedded controllers
Virtual Instrument Guidance	adjacent slots for local-bus instrument groups
Power Cord Fuse	shipped installed suitable for all line voltages
Compared To E8403A Power	half the usable power of E8403A 1000 W
Backplane Clocks	SYSClk 16 MHz provided by slot-0 device
Operating temperature	Power Spec: 0 to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Virtual Instrument Guidance	adjacent slots for local-bus instrument groups
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Compared To E8403A Power	half the usable power of E8403A 1000 W
Backplane Clocks	SYSClk 16 MHz provided by slot-0 device Notes From Keysight/Agilent E8401A E8403A E8404A VXI Mainframes data sheet and E8401A/E8403A user manual difference table.

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

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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.