

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E8401A

The Keysight (formerly Agilent/HP) E8401A is a high-performance, 13-slot, C-size VXI mainframe designed for demanding test and measurement applications. It features a robust 1000 W power supply providing 500 W of usable power, exceptional cooling efficiency through an impeller fan design, and full compliance with VXIbus specifications.

SPECIFICATIONS

General

Interfaces	None (external communication interface is provided by the installed VXI Slot 0 controller)
Display	None (LED status indicators only)

Physical

Operating Temperature	0 °C to +55 °C °C
Dimensions (W×H×D)	424.5 mm × 352 mm × 631 mm mm
Weight	20.3 kg kg

System Architecture & Capacity

Number of Module Slots	13
Compatible Module Size	C-size
Backplane Bus Interface Type	VXIbus Rev. 1.4

Power Specifications

Total Power Supply Capacity	500 W
Total Usable Power	500 W
Backplane Rail +5V Peak Current	50 A
Backplane Rail -5.2V Peak Current	30 A
Backplane Rail +12V Peak Current	8 A
Backplane Rail +24V Peak Current	8 A
Backplane Rail -2V Peak Current	15 A

Physical Characteristics

Form Factor	8U
Cooling System Type	Impeller fan
Slot Pitch	30.48 mm (1.2 in)

Environmental & Compliance

Storage Temperature Range	-40 °C to +75 °C
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User Interface & Operation

Status Indicators	Front panel LEDs (Power, Fan, Temperature)
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Inputs & Outputs

Diagnostics Connector	25-pin D-sub (rear panel)
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Cooling

Cooling Capacity per Slot	75 W (with a 15 °C temperature rise)
Fan Speed Control	Two-position switch (High/Auto)

Environmental

Acoustic Noise (Low Speed)	38 dBA
Acoustic Noise (High Speed)	51 dBA
Operating Humidity Range	Up to 95% RH (non-condensing)

Standards & Compliance

VXIbus Specification Compliance	Revision 1.4
VMEbus Specification Compliance	ANSI/IEEE 1014-1987

Mechanical

Rack Height	8 U
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Backplane Specifications

Daisy Chaining	Automatic solid-state daisy chaining for BG and IACK signals
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Compliance & Certifications

Safety Standards	IEC 61010-1, EN 61010-1, UL 3111-1, CSA C22.2 No. 1010.1
EMC Standards	EN 55011 Group 1 Class A, EN 50082-1

TECHNOLOGY

VXI

APPLICATIONS

Modular Test and Measurement Mainframe

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.