

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E8404A

The Keysight Agilent HP E8404A is a high-performance, 13-slot, C-size VXI mainframe designed for demanding automated test equipment (ATE) applications. It features a robust 1000 W power supply with excellent cooling capacity, solid-state automatic daisy-chaining, and an enhanced diagnostic monitor with an integrated LCD display to continuously track system temperatures, voltages, currents, and fan speeds.

SPECIFICATIONS

General

Interfaces	RS-232 (diagnostic serial port)
Display	2-line x 20-character LCD diagnostic monitor

Physical

Power Supply	90 - 264 VAC, 47 - 66 Hz / 360 - 440 Hz
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	424.5 mm × 352 mm × 631 mm mm
Weight	20.3 kg kg

Mainframe Architecture

Number of Slots	13
Card Size Supported	C-size
VXIbus Revision Compliance	Revision 1.4
Daisy Chaining	Solid-state automatic daisy chaining

Physical and Mechanical

Chassis Rack Height	8 U
Cooling System Design	Single impeller fan with automated speed control

Power Supply Outputs

Total Usable Power	1000 W
Total Peak Power	1587 W
+5V Peak Current	90 A
-5.2V Peak Current	60 A
+12V Peak Current	15 A
+24V Peak Current	15 A
-2V Peak Current	30 A
+5V Dynamic Current	9.0 A
-5.2V Dynamic Current	6.0 A
+12V Dynamic Current	3.0 A
+24V Dynamic Current	1.5 A
-2V Dynamic Current	3.0 A

System Monitoring and Diagnostics

Enhanced Monitoring Capabilities	Voltages, currents, temperatures, fan speeds, history log
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Environmental and Standards

Storage Temperature Range	-40 to +75 °C
Operating Humidity Range	Up to 95% RH (non-condensing)
Operating Altitude	Up to 3000 m

AC Input

AC Input Voltage	90 - 264 VAC (auto-ranging)
AC Input Frequency	47 - 66 Hz / 360 - 440 Hz
Maximum Power Consumption	1500 VA

System Monitoring

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

Cooling Capacity per Slot	100 W (at 10°C temperature rise)
Acoustic Noise (High Speed)	52.5 dBA
Acoustic Noise (Auto Speed)	40 dBA
Cooling Fan Speed Control	Auto / High (switch selectable)

Standards & Compliance

Safety Compliance	UL 3111-1, CSA C22.2 No. 1010.1, EN 61010-1
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Power Specifications

Ripple and Noise (+5V, -5.2V, -2V)	< 50 mV p-p
Ripple and Noise (+12V, -12V)	< 50 mV p-p
Ripple and Noise (+24V, -24V)	< 150 mV p-p

Backplane Specifications

CLK10 Frequency	10 MHz
CLK10 Accuracy	< 100 ppm

Monitoring

Monitored Parameters	Power supply voltages, power supply temperature, slot temperatures, fan speed
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TECHNOLOGY

VXIbus

APPLICATIONS

Automated Test Equipment (ATE), Modular Test Systems

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