KEYSIGHT TECHNOLOGIES (AGILENT HP)

E1421B

The Keysight E1421B (formerly Agilent/HP) is a high-performance 6-slot, C-size VXIbus mainframe designed for compact automated test applications. Featuring a robust 450 W power supply, automatic backplane jumpering, and efficient positive-pressure cooling, it ensures reliable system integration and optimal module performance in demanding environments.

SPECIFICATIONS

General

Interfaces	VXIbus Backplane; external interfaces (GPIB, LAN, USB) dependent on the installed Slot 0 controller module
Display	None (LED status indicators for power supply rails and fan status)

Physical

Power Supply	100 - 240 VAC (nominal), 47 - 66 Hz, 450 W maximum usable power
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	425.5 mm × 221.5 mm × 574 mm mm
Weight	15.5 kg kg

System Architecture & Capacity

Number of Module Slots	6
Compatible Module Size	VXI C-size
Backplane Compliance	VXIbus Specification Revision 1.4
Slot Pitch / Spacing	30.48 mm (1.2 in)
Interrupt / Jumper Configuration	Automatic solid-state daisy-chain jumpering for IACK and LWORD

Backplane Electrical Specifications

+5V Rail Maximum Current	40 A
-5.2V Rail Maximum Current	25 A
+12V Rail Maximum Current	8 A
+24V Rail Maximum Current	4 A
-2V Rail Maximum Current	10 A

User Interface & Operation

Power Monitoring	Front-panel LEDs monitoring all 7 VXI power supply voltages

Physical Characteristics

Cooling System Type	Positive pressure, fan-forced air
Form Factor	5U Rackmount (with optional rackmount adapters)

Environmental & Compliance

Storage Temperature Range	-40 °C to +75 °C
Operating Humidity Range	65% RH
Safety Certifications	UL 1244, CSA C22.2, EN 61010-1
EMC Compliance Standards	CISPR 11, EN 55011, EN 50082-1

Power Distribution

Total Usable DC Power	450 W

Standards & Compliance

VXIbus Specification Compliance	Revision 1.4

TECHNOLOGY

VXIbus

APPLICATIONS

Automated Test Equipment (ATE) systems