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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E1301B B-Size VXI Mainframe, 9-Slot

The HP/Agilent E1301B isaSeriesBVXI mainframe with integrated Slot 0 controller based on an 8 MHz Motorola 68000. OEM SeriesBmaterials list 7 external B-size slots, 3 external A-size slots, 3 internal B-size slots (P1 only), GPIB and RS-232 interfaces, and optional internal E1326A/B DMM. Compact B-size data acquisition, scanning multimeter systems, and stand-alone IBASIC automated test where optioned. Front panel keyboard and 2×40 vacuum fluorescent display on A/B panel models Optional IBASIC, RAM, disk, and internal DMM



MODEL

**Agilent / Keysight
E1301B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1301B

LISTING

<https://aumictechlabs.com/products/e1301b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E1301B is a B-size, 9-slot VXI mainframe designed for compact automated test and measurement systems. It integrates a built-in command module with GPIB and RS-232 interfaces, an 8 MHz Motorola 68000 controller, and dual-fan cooling to support demanding measurement modules. The front panel includes a 40-character vacuum fluorescent display and keyboard for manual operation and troubleshooting, eliminating dependence on external controllers for remote applications. Technical Specifications The E1301B provides 9 total slots: 7 external B-size slots, 2 internal slots (one occupied by the base controller), and 3 available external A-size slots. The 16-bit VME Bus P1 backplane supports VXI Specification Revision 1.4

compliance. Cooling is rated for 25 W modules with a 10°C temperature rise. Power distribution delivers +5 V at 12.2 A (IMP) / 50.00 A (IMD), +12 V at 4.6 A (IMP) / 8.00 A (IMD), and -12 V at 0.9 A (IMP) / 4.00 A (IMD). Maximum usable power is 120 W at 40°C. All outputs include over-temperature, over-voltage, over-current, and short-to-ground protection. Input power accepts 115 Vac to 230 Vac (250 V maximum) at 50 Hz to 400 Hz. Replacement fuses are 1.5 A (Agilent 2110-0304) for 115 Vac and 3.0 A (Agilent 2110-0003) for 230 Vac operation.

Key Features

- Built-in GPIB interface and Resource Manager with SCPI and IEEE 488.2 command support
- RS-232 interface supporting 300, 1200, 2400, 4800, 9600, and 19200 Baud
- Integrated 2-line by 40-character vacuum fluorescent display with front-panel keyboard
- Non-volatile memory options: 512 KB, 1 MB, or 2 MB (early production units featured 256 KB or 64 KB battery-backed RAM)
- Generates ACFAIL* and SYSRESET* backplane logic signals
- Two internal slots accommodate the E1326B 2-slot multimeter module
- Dual-fan cooling for thermal management of high-power modules

Typical Applications

Automated test systems requiring modular plug-in architecture, remote instrumentation platforms, and laboratory environments where manual front-panel control and GPIB network integration are both required.

Compatibility & Integration

The E1301B mainframe is functionally compatible with the E1306A Command Module and accepts B-size and A-size VXI measurement modules designed to VME P1 specification.

E1301B Characteristics / Specifications

PARAMETER	VALUE
ExternalBSize Slots	7
ExternalASize Slots	3
InternalBSize Slots	3
Slot 0 Controller	8 MHz Motorola 68000
Backplane Connectors	VME/VXI P1 only
HPIB Interface	yes
RS232 Baud Rates	300, 1200, 2400, 4800, 9600, 19200
Default RS2	9600 baud, 8 data, no parity, 1 stop, XON pacing
Display	2 line by 40 character vacuum fluorescent on keyboard models
Keyboard	front panel keyboard on A/B models
Nonvolatile RAM Base	256 KByte (early units 64 KByte)
AC Mains	115/230 Vac 50/60 Hz
Trigger Connectors	Event In, Trigger Out, Pacer Out
Panel Configuration	keyboard and VF display; later dual fan cooling
Cooling Note	dual fan cooling and automatic slot IACK daisy chaining
Logical Address Rule	multiples of 8 except multi-module instruments
Related Command Module	E1306A / E1406A family

E1301B Specifications

PARAMETER	VALUE
Agilent E1301B Series B VXI Mainframe	Overview
Key Features	Integrated 68000 Slot 0 controller
Technical Specifications	External B Size Slots: 7

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

Specifications

PARAMETER	VALUE
ExternalBSize Slots	7
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Slot 0 Controller	8 MHz Motorola 68000
Backplane Connectors	VME/VXI P1 only
HPIB Interface	yes
RS232 Baud Rates	300, 1200, 2400, 4800, 9600, 19200
Default RS232	9600 baud, 8 data, no parity, 1 stop, XON pacing
Display	2 line by 40 character vacuum fluorescent on keyboard models
Keyboard	front panel keyboard on A/B models
Nonvolatile RAM Base	256 KByte (early units 64 KByte)

Optional RAM: 512 KByte, 1 MByte, or 2 MByte

Optional Internal DMM: E1326A/B

AC Mains: 115/230 Vac 50/60 Hz

Optional DC Power: available

Optional IBASIC: available

Optional Floppy: 720 KByte or 1.44 MByte with IBASIC

Optional Fixed Disk: 10, 20, or 40 MByte with IBASIC

Specifications

PARAMETER	VALUE
Trigger Connectors	Event In, Trigger Out, Pacer Out
Panel Configuration	keyboard and VF display; later dual fan cooling
Cooling Note	dual fan cooling and automatic slot IACK daisy chaining
Logical Address Rule	multiples of 8 except multi-module instruments
Related Command Module	E1306A / E1406A family

Notes

Slot counts, controller, interfaces, and options from HP/Agilent E1300 SeriesBdocumentation and configuration guides. Confirm installed options on the rear/option labels.

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.