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Agilent E1301B
B-Size VXI Mainframe with Front Panel, 9-Slot

Data Sheet

- **Dual fan cooling supports high-power modules**
- **Front panel for manual control**
- **Low-cost, compact mainframe**
- **Built-in command module**
- **GPIB interface and Resource Manager**
- **SCPI for easy programming**



Agilent E1301B

Description

The Agilent Technologies E1301B **B-size VXI mainframe** features improved dual fan cooling for support of the most demanding M-Modules and B-size modules. Two of its nine slots are located internally and are dedicated to housing the 2-slot E1326B Multimeter. Three A-size slots are also available for installing other modules .

The E1301B Mainframe features a built-in high-performance command module with built-in GPIB interface.

The E1301B Mainframe is identical to the E1300B in function, but features a front panel and keyboard for manual control and troubleshooting without the use of GPIB. This makes it an ideal mainframe for remote applications.

Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.

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Optional Features

The E1301B Mainframe offers 1 or 2 MB non-volatile memory for program and data storage.

Air Flow and Power Supply Serviceability

- Power Input and cooling air intake through the right side
- Cooling air exhaust through the left side

Product Specifications

Mechanical Specifications

	mm	inches
Height without bottom feet:	177	6.97
Height with bottom feet:	189	7.44
Width:	426	16.75
Depth:	510	20.1
Depth with terminal blocks:	569	22.38
Weight:	7.8 kg/17 lbs	

Power Specifications

Power output:
The power supply generates backplane logic signals ACFAIL* and SYSRESET* in full compliance with the VXI Specification, Revision 1.4.

dc Output Voltage	PK Current I_{MP}
+5 V:	12.2 A
+12 V:	4.6 A
–12 V:	0.9 A

Usable power: 120 W maximum at 40° C

Power Supply Protection

All outputs are protected from over-temperature, over-voltage, over-current, and short-to-ground.

Power Input

Input voltage:	115 Vac to 230 Vac (250 V max)
Input frequency:	50 Hz to 400 Hz

Cooling

Temperature rise:	10° C (through the module for a 25 W module with typical density)

Environmental and Regulatory

Acoustic noise:	Less than 40 dBA sound pressure at bystander position (measured 1 m. in front of product per DIN 45635T.1)

General Specifications

VXI Characteristics

VXI device type:	Mainframe
Data transfer bus:	16 bits
Size:	B
Slots:	9 (7 external, 2 internal, 3 external A-size)
Connectors:	P1
Shared memory:	n/a
VXI buses:	none

Cooling/Slot

Watts/slot:	25 W (10° C rise)
ΔP mm H_2O:	n/a
Air flow liter/s:	n/a

Available Current

	I_{MP} (A)	I_{MD} (A)
+5 V:	50.00	3.50
+12 V:	8.00	1.50
–12 V:	4.00	0.50
+24 V:	0	0
–24 V:	0	0
–5.2 V:	0	0
–2 V:	0	0

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Rack-Mounting Details

Configuration Checklist

Find the column (A, B, or C) that contains the desired rack-mounting components, then follow the column down for ordering information.

Recommended Configurations

	A	B	C
Rack-mount:		●	●
Handles:	●		●
Rails and flanges:		●	●

You Need to Order

	A	B	C	For reorders use part number
Option 907 handle kit:	●			5062-3900
Option 908 rack-mount rails/flanges:		●		E1300-80908
Option 909 rack-mount rail/flanges/handles:			●	E1300-80909

Ordering Information

Description	Product No.
9-Slot, B-Size VXI Mainframe w/Front Panel	E1301B
E1326B Multimeter Installed Internally	E1301B 009
512 KB Nonvolatile Memory Installed	E1301B 010
1 MB Nonvolatile Memory Installed*	E1301B 011
2 MB Nonvolatile Memory Installed	E1301B 012
Front Handle Kit for E1301B Mainframe	E1301B 907
Rack-Mount Flanges and Rails for E1301B	E1301B 908
Rack-Mount Flanges, Handles and Rails	E1301B 909
Germany-German Localization	E1301B ABD
France-French Localization	E1301B ABF
Japan-Japanese Localization	E1301B ABJ
Italy-Italian Localization	E1301B ABZ
ANSI Z540 Compliant Calibration	E1301B A6J
Cover Parts Kit	E1300-06102
Field Install Kit 512 K Memory	E1300-80002
Field Install Kit 1 Mbyte Memory	E1300-80003
Internal Installation Kit for E1326B DVM	E1326-80004
Kit-Binding Post	E1326-80005
Firmware Update to A.07 w/o IBASIC	E1300-80070
Rack Mount Kit w/Rails	E1300-80908
Rack Mount & Handle Kit	E1300-80909
Service Manual	E1300-90015

*Option 011 is required if you ar using the E1313A, However, Option 012 is recommended.

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