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B-Size Mainframe, 9-Slot HP E1300A

Technical Specifications

- **Low cost, compact mainframe**
- **Built-in command module**
- **HP-IB interface and Resource Manager**
- **SCPI for easy programming, Optional HP IBASIC**
- **Optional DC power for remote applications**



Description

The HP E1300A **B-size VXI mainframe provides 9 slots.** Two of the 9 slots are located internally and are dedicated to housing the 2-slot HP E1326B multimeter. Three A-size slots are also available for installing, for example, modules like the HP E1324A RS-232C/422 terminal interface.

The HP E1300A mainframe features a built-in high-performance command module (functionally identical to the HP E1306A Command Module) with built-in HP-IB interface. Standalone operation is easily configured with DC power and HP IBASIC controller options.

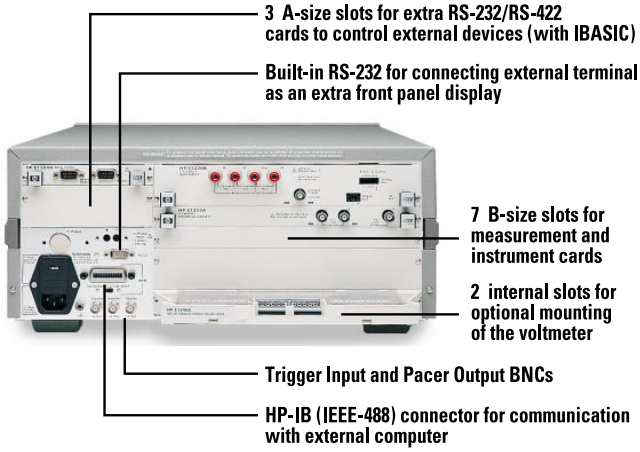
It supports 256 KB, 720 KB, and 1.4 MB formatted capacities. This ruggedized drive provides storage for programs and data as well as for autostart routines. Internal RAM volume, optional internal floppy drive, and external SS/80 drives are all supported.

Optional Features

The E1300A mainframe offers the following optional features:

- HP IBASIC controller language (puts the power of an HP Series 300 computer in the instrument)
- 1 or 2 megabyte (MB) non-volatile memory for program and data storage
- DC power for portable or UPS (uninterruptible power supply capability)

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General Characteristics

Air Flow and Power Supply Serviceability

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

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 busses: none

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:	7.4 kg/ 16 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

Optional DC Operation

Voltage: 11-30 Vdc
Current: 20 A maximum, breaker protected *(also protected against over voltage and reverse polarity)*
Transparent switch to DC: <5 ms

Cooling

Temperature rise: 10 °C *(through the module for a 15 W module with typical density)*

Environmental and Regulatory

Acoustic Noise: Less than 48 dBA sound pressure at bystander position (measured 1 m in front of product per DIN 45635T.1)

Available Current

	I_{PM}	I_{DM}
+5 V:	12.20	0
+12 V:	4.60	0
−12 V:	0.90	0
+24 V:	0	0
−24 V:	0	0
−5.2 V:	0	0
−2 V:	0	0

Cooling/Slot

Watts/slot: 15 W (10 °C rise)
ΔP mm H_2O: n/a
Air Flow liter/s: n/a

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:	X			5062-3900
Option 908 rack-mount rails/flanges:		X		E1300-80908
Option 909 Rack-mount rail/flanges/handles:			X	E1300-80909

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Ordering Information

Description	Product No.
B-size Mainframe, 9-slot	HP E1300A
External dc power operation installed	HP E1300A 008
E1326B Multimeter installed internally	HP E1300A 009
512 kbyte nonvolatile memory installed	HP E1300A 010
1 Mbyte nonvolatile memory installed	HP E1300A 011
2 Mbyte nonvolatile memory installed	HP E1300A 012
IBASIC controller with 512 kB installed	HP E1300A 020
IBASIC controller with 1 MB installed	HP E1300A 021
IBASIC controller with 2 MB installed	HP E1300A 022
Service manual	HP E1300A 0B3
Mil std 45662A calibration w/ test data	HP E1300A 1BP
Module installation - standard config.	HP E1300A 500
Front handle kit for E1300A mainframe	HP E1300A 907
Rackmount flanges and rails for E1300A	HP E1300A 908
Rackmount flanges, handles and rails	HP E1300A 909
Germany - German localization	HP E1300A ABD
France - French localization	HP E1300A ABF
Japan - Japanese localization	HP E1300A ABJ
Italy - Italian localization	HP E1300A ABZ
3 yr. retn. to HP to 1 yr. OnSite warr.	HP E1300A W01
ORDER E1300-06102	HP E1300-04103
ORDER E1300-06102	HP E1300-04104
ORDER E1300-06102	HP E1300-04105
ORDER E1300-06102	HP E1300-04106
ORDER E1300-06102	HP E1300-04107
FIELD INSTALL KIT HP IBASIC	HP E1300-80001
FIELD INSTALL KIT 512K MEMORY	HP E1300-80002
FIELD INSTALL KIT 1MBYTE MEMORY	HP E1300-80003
FIELD INSTALL KIT	HP E1300-80011
FIELD INSTALLTION KIT 3.5 DISC DRIVE	HP E1300-80005
FIELD INSTALL KIT EXTERNAL DC POWER	HP E1300-80008
INTERNAL INSTALLATION	HP E1326-80004
KIT-BINDING POST	HP E1326-80005
RACK MT KIT W/RAILS	HP E1300-80908
RACK MNT & HNDL KIT	HP E1300-80909

Data Subject to Change
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