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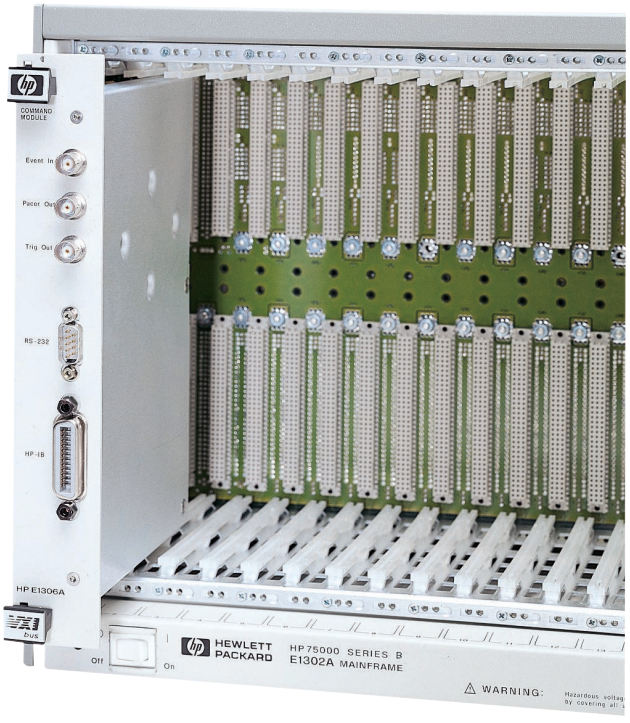
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HP-IB Command Module for B-Size VXI
HP E1306A
Technical Specifications

- **2-Slot, B-size, register-based commander**
- **Embedded command module for B-size mainframe**
- **HP-IB and resource manager capabilities**
- **Access any manufacturer's register-based device**
- **Supports SCPI for easy programming**
- **HP VIC included for fast and easy set-up**



HP E1306A

Description

The HP E1306A HP-IB Command Module is a **B-size, 2-slot VXI command module** designed for use with the 20-slot HP E1302A mainframe. The HP E1306A offers an HP-IB interface for your VXI mainframe, and manages the VXI backplane communications.

The command module, which parses the measurement control commands to register-based VXI devices, allows you to send SCPI commands to instruments in a consistent, readable form, making programming easier. The HP E1306A does not support Compiled SCPI (C-SCPI). The built-in RS-232 is intended for an RS-232 terminal connection that provides debugging capabilities for the user.

You can add up to 2 MB nonvolatile RAM memory in 1 MB increments to this command module. Additional memory of 1 MB is recommended for all configurations. For some configurations (i.e., HP E1313A 32-Channel Scanning A/D), you may need to add 2 MB RAM. The additional RAM is needed for instrument reading storage and SCPI downloadable drivers for register-based modules.

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

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Configuration Restrictions

The HP E1306A must be used in the first slot of the mainframe, and it must be the resource manager for the system. You cannot use the HP E1306A in a system with any other VME bus masters (i.e., the HP E1306A cannot be used with VXLink, other embedded controllers, or other bus mastering modules).

Product Specifications

Real-Time Clock

Clock accuracy:	0.01% or elapsed time since last set ± 1 s
Resolution:	1 s
Nonvolatile lifetime:	60 days (battery life, 1 yr. typical; NiCad battery)

Trigger

Accuracy:	
First pulse after trigger:	0.01% of programmed time + 600 to 850 ns
Additional pulses:	0.01% of programmed time ± 50 ns
Number of pulses:	1 through 8388607 or continuous
Trigger input:	TTL compatible
Minimum pulse width:	300 ns

Built-in RS-232

Baud rate:	300, 1200, 2400, 4800, 9600, 19200
Buffer size:	100 characters

Non-volatile RAM Lifetime (typical)

512 KB:	11 months
1 MB:	6 months
2 MB:	3 months

General Characteristics

Processor:	8 MHz 68000
Interfaces:	IEEE-488
Clock accuracy:	0.01% elapsed time ± 1 s
Memory:	2 MB RAM max
Shared memory:	No
HP IBASIC:	No
Slot 0 functions:	Yes
Resource manager:	Yes
MXIbus resource manager:	No
Trigger input:	TTL
CLK10:	No

General Specifications

VXI Characteristics

VXI device type:	Register-based commander
Size:	B
Slots:	2
Connectors:	P1
Shared memory:	n/a
VXI busses:	n/a
C-size compatibility:	Not adaptable to C-size

Instrument Drivers

See the HP Website (http://www.hp.com/go/inst_drivers) for driver availability and downloading.

Command module firmware:	n/a
Command module firmware rev:	n/a
I-SCPI Win 3.1:	n/a
I-SCPI Series 700:	n/a
C-SCPI LynxOS:	n/a
C-SCPI Series 700:	n/a
HP Panel Drivers:	Yes
VXI*plug&play* Win Framework:	Yes
VXI*plug&play* Win 95/NT Framework:	Yes
VXI*plug&play* HP-UX Framework:	No

Module Current

	I_{PM}	I_{DM}
+5 V:	0.95	0.01
+12 V:	0.02	0.01
–12 V:	0.02	0.01
+24 V:	0	0
–24 V:	0	0
–5.2 V:	0	0
–2 V:	0	0

Cooling/Slot

Watts/slot:	5.50
ΔP mm H_2O:	0.10
Air Flow liter/s:	0.44

Ordering Information

Description	Product No.
HP-IB Command Module for B-size VXI	HP E1306A
1 Mbyte Nonvolatile Memory Kit*	HP E1306A 010
Taiwan-Chinese Localization	HP E1306A ABO
Germany-German Localization	HP E1306A ABD
Spain-Spanish Localization	HP E1306A ABE
France-French Localization	HP E1306A ABF
Japan- Japanese Localization	HP E1306A ABJ
Italy-Italian Localization	HP E1306A ABZ
5 yrs. of Customer Return Repair Service	HP E1306A W50

****1 MB of expanded memory is required if HP E1313A is being used; however 2 MB is recommended.***

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Related Literature

1998 Test System and VXI Products Data Book,
HP Pub. No. 5966-2812E

1999 Test System and VXI Products Catalog,
HP Pub. No. 5968-3698

Warranty

Standard Hewlett-Packard VXIbus hardware products are warranted against defects in materials and workmanship for a period of three years unless otherwise noted. HP software and firmware products that are designated by HP for use with a hardware product, when properly installed on that hardware product, are warranted not to fail to execute their programming instructions due to defects in materials and workmanship.

For a complete and detailed warranty statement please see the HP *Test System and VXI Products Data Book* or visit the HP Website at http://www.hp.com/go/vxi.

Website Directory

HP VXI Product Information
http://www.hp.com/go/vxi

HP VXI Channel Partners
http://www.hp.com/go/vxichanpart

HP VEE Application Website
http://www.hp.com/go/hpvee

Data Acquisition and Control Website
http://www.hp.com/go/data_acq

HP Instrument Driver Downloads
http://www.hp.com/go/inst_drivers

Electronics Manufacturing Test Solutions
http://www.hp.com/go/manufacturing

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For more information about Hewlett-Packard test & measurement products, applications, services, and for a current sales office listing, visit our website, *http://www.hp.com/go/tmdir.* **You can also contact one of the following centers and ask for a test & measurement sales representative.**

United States:
Hewlett-Packard Company
Test and Measurement Call Center
P.O. Box 4026
Englewood, CO 80155-4026
1 800 452 4844

Canada:
Hewlett-Packard Canada Ltd.
5150 Spectrum Way
Mississauga, Ontario L4W 5G1
(905) 206 4725

Europe:
Hewlett-Packard
European Marketing Centre
P.O. Box 999
1180 AZ Amstelveen
The Netherlands
(31 20) 547 9900

Japan:
Hewlett-Packard Japan Ltd.
Measurement Assistance Center
9-1, Takakura-Cho, Hachioji-Shi,
Tokyo 192, Japan
Tel: (81) 426 56 7832
Fax: (81) 426 56 7840

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