

VXIbus Extender (VXIbus-to-MXIbus) HP E1482B Technical Specifications

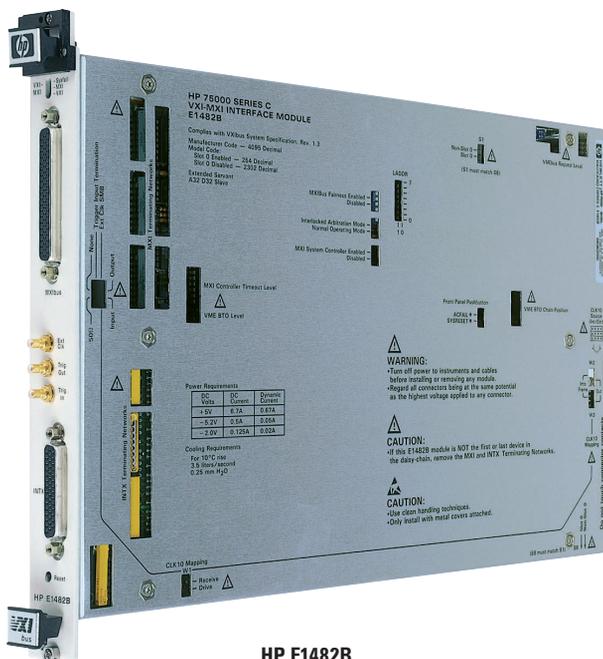
- 1-Slot, C-size, register based
- Provides interface for the external MXIbus controller
- Multiple VXIbus mainframes appear as a single system
- Transparent interrupts and TTL triggering
- Timing and triggering to external devices/mainframes
- VXIplug&play-compatible interface

Description

The HP E1482B VXIbus Extender is a **C-size, 1-slot, register-based VXI module**. It connects your external controller to the VXI backplane via the MXIbus interface (HP E1489C). The extender is also used to create multiple-mainframe systems for either external or embedded controller applications.

When used with external workstation controllers, the VXI extender plugs into slot 0 of the mainframe and is connected via the MXIbus controller cable to the EISA/ISA-to-MXIbus Interface (HP E1489C) in the HP-UX controller. For multiple VXI mainframe systems, one VXIbus extender module is installed into each mainframe and these are connected together via MXIbus cables in a daisy-chain configuration.

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



HP E1482B

Extensions

Clock, trigger, and interrupt extensions are provided by VXI-MXI. Minimal extensions available via SMB connector and cable are CLK10 input/output and one of eight programmably selected triggering input/output and interrupt lines. The Interrupt and Timing Extension (INTX) cable bus structure provides all eight TTLTRG lines and seven interrupt lines defined by VXIbus; CLK10 is also carried by INTX. An INTX connector is available on the VXI-MXI front panel. Other INTX extensions include SYSFAIL*, ACFAIL*, and SYSRESET*.

Mainframe Extender Support for MXIbus

- HP E1405B Command Module, System Revision A.08 or greater
- HP E1406A Command Module, all system revisions apply
- HP E1497A/E1498A Embedded Controllers, all system revisions apply
- HP RADEPC7B, E6232A, E6234A, E6235A
- Series 700 controllers with HP E1489C EISA/ISA-to-MXIbus Interface

Product Specifications

Interface Characteristics

Operating system:	HP-UX
Controller:	HP Series 700
I/O library:	SICL/VISA
Backplane:	EISA
Max. I/O speed:	
16 bit:	2.0 MB/s
32 bit:	4.0 MB/s
Languages:	C/C++, HP VEE

Front Panel

Indicators:	LEDs for VXI accessed, MXI accessed, and Failed
Reset:	1 external pushbutton
Connectors:	1 MXIbus connector, 1 INTX connector
Trigger and clock:	SMB Trigger Input, SMB Trigger Output, SMB external clock I/O

Cable Length

INTX maximum lengths:	20 m total per MXI system, maximum 8 mainframes per system
INTX bus maximum length:	12 m when mapping high-speed trigger signals

General Specifications

VXI Characteristics

VXI device type:	Register based
Data transfer bus:	n/a
Size:	C
Slots:	1
Connectors:	PI/2
Shared memory:	n/a
VXI busses:	TTL Trigger Bus (T) ECL Trigger Bus (E)
C-size compatibility:	n/a

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:	n/a
VXIplug&play Win Framework:	n/a
VXIplug&play Win 95/NT Framework:	n/a
VXIplug&play HP-UX Framework:	n/a

Module Current

	I _{PM}	I _{DM}
+5 V:	6.7	0.67
+12 V:	0	0
-12 V:	0	0
+24 V:	0	0
-24 V:	0	0
-5.2 V:	0.5	0.05
-2 V:	0.13	0.02

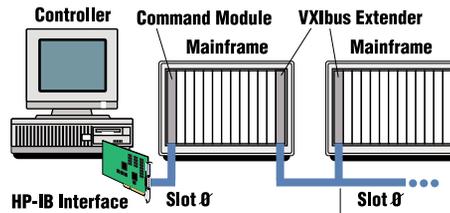
Cooling/Slot

Watts/slot:	21.00
ΔP mm H ₂ O:	0.25
Air flow liter/s:	3.50

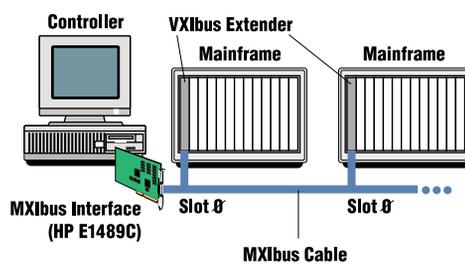
Ordering Information

Description	Product No.
VXIbus Extender (VXIbus-to-MXIbus)	HP E1482B
1-meter MXI and INTX Cables	HP E1482B 001
If Ordered Separately	HP E1482-80001
4-meter MXI and INTX Cables	HP E1482B 004
If Ordered Separately	HP E1482-80004
Japan - Japanese localization	HP E1482B ABJ
3 yr. Retn. to HP to 1 yr. OnSite Warr.	HP E1482B W01

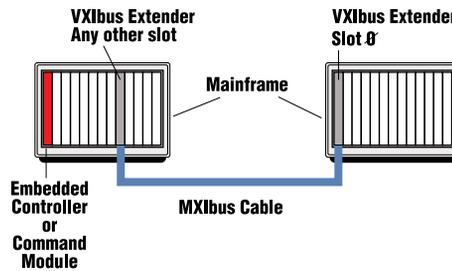
**External HP-IB Controllers
(PCs, Series 300/700)**



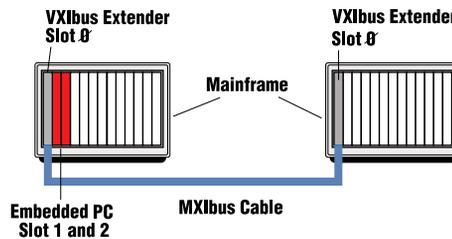
External Series 700 Controller



Embedded Series 700 Controller or Command Module



Embedded PC Controller



VXIbus Extender Connections

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>

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,
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