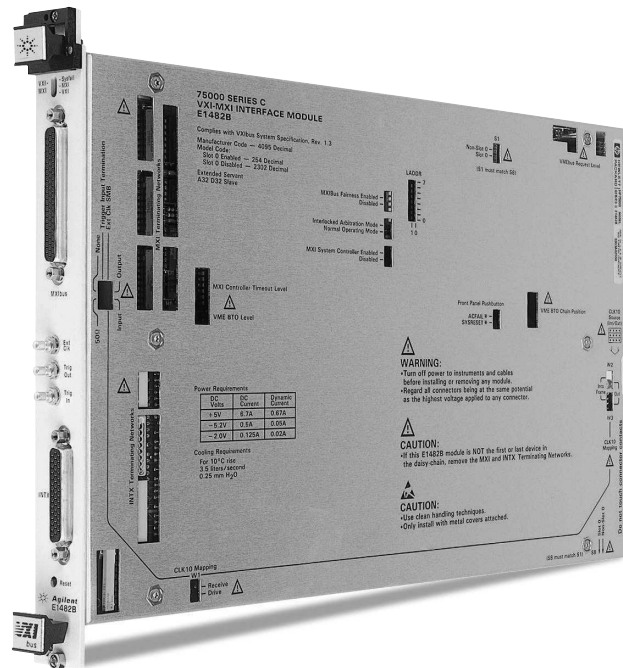


# Agilent E1482B VXIbus Extender (VXIbus-to- MXIbus) Data Sheet

- 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
- *VXI plug&play*-compatible interface



Agilent E1482B

## Description

The Agilent 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 (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 (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.

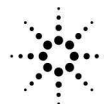
Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.

## 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

- Agilent E1406A Command Module, all system revisions apply
- Agilent E1498A Embedded Controller, all system revisions apply
- Agilent E6234A, E6235A
- Series 700 controllers with Agilent E1489C EISA/ISA-to-MXIbus Interface



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## 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++, Agilent 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:	P1/2
Shared memory:	n/a
VXI busses:	TTL Trigger Bus (T) ECL Trigger Bus (E)
C-size compatibility:	n/a

### Instrument Drivers

See the Agilent Technologies Website ([http://www.agilent.com/find/inst\\_drivers](http://www.agilent.com/find/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
Panel Drivers:	n/a
VXI plug&play Win Framework:	n/a
VXI plug&play Win 95/NT Framework:	n/a
VXI plug&play HP-UX Framework:	n/a

### Module Current

	I <sub>PM</sub>	I <sub>DM</sub>
+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

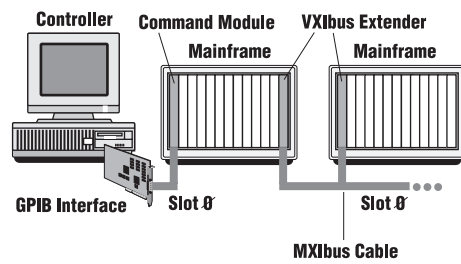
### Cooling/Slot

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

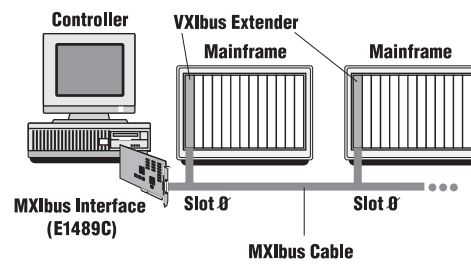
## Ordering Information

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

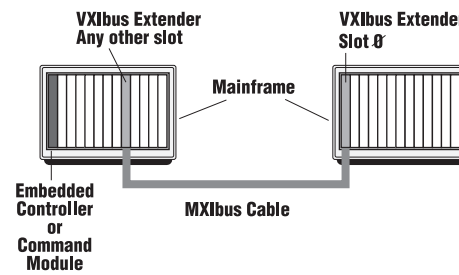
### External GPIB Controllers (PCs, Series 300/700)



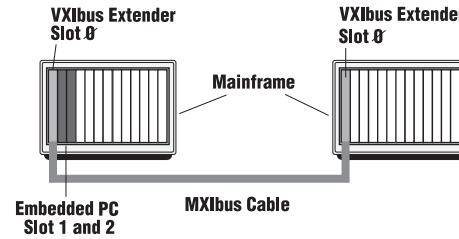
### External Series 700 Controller



### Embedded Series 700 Controller or Command Module



### Embedded PC Controller



### VXIbus Extender Connections

## Related Literature

*2000 Test System and VXI Catalog CD-ROM,*  
Agilent Pub. No. 5980-0308E (detailed specifications for VXI products)

*2000 Test System and VXI Catalog,*  
Agilent Pub. No. 5980-0307E (overview of VXI products )

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

## Online

Internet access for Agilent product information, services and support  
[www.agilent.com/find/tmdir](http://www.agilent.com/find/tmdir)

VXI product information  
[www.agilent.com/find/vxi](http://www.agilent.com/find/vxi)

Defense Electronics Applications  
[www.agilent.com/find/defense\\_ATE](http://www.agilent.com/find/defense_ATE)

Agilent Technologies VXI Channel Partners  
[www.agilent.com/find/vxichanpart](http://www.agilent.com/find/vxichanpart)

Agilent Technologies' HP VEE Application Website  
[www.agilent.com/find/vee](http://www.agilent.com/find/vee)

Agilent Technologies Data Acquisition and Control Website  
[www.agilent.com/find/data\\_acq](http://www.agilent.com/find/data_acq)

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