# MXI-4E SERIES

MARVIN TEST SOLUTIONS

## PXI BUS EXPANDERS

- Supports remote control of PXI and CompactPCI chassis
- Transparent PCI / PCIe bridge operation
- 2.5 Gb/s maximum data rate
- 1, 3 or 7 m copper cabling with rugged, captive screw connectors

## DESCRIPTION

The MXI-4E PXI Bus Expander allows for direct control of PXI systems from a PCI or PCIe slot in a desktop computer or server. MXI-4E interface cards can also be used for linking multiple PXI chassis. MXI-4E technology utilizes a high-bandwidth link that is transparent to software applications and drivers, therefore providing the ability to use high performance desktop computers or servers to control PXI systems.

## FEATURES

Since PXI is based on the industry-standard PCI bus, the MXI-4E Bus Expander provides a transparent link where all PXI modules appear to the user as if they were PCI boards within the computer itself. However, with PXI technology, users benefit from an increased number of slots, power and cooling per slot, module selection, and synchronization features.

The MXI-4E employs MXI-Express technology and builds on the standard PCI-to-PCI bridge architecture by splitting the bridge into two halves which are connected by a high speed serial link. The MXI-4E kit consists of a PCI card, a copper cable, and a PXI interface card. Individual kit components may be purchased separately for spares or to meet your specific requirements. The MXI-Express kits provide control of PXI chassis via a PCIe card.

## MULTI-CHASSIS SYSTEMS

The MXI-4E Bus Expander can be used to connect multiple PXI chassis in a star or daisy-chain configuration within a single system. To connect two PXI chassis together, install a MXI-4E-PXI peripheral slot controller card into any peripheral slot of the master chassis, and then connect the appropriate cable to a MXI-4E-PXI remote controller in slot 1 of the slave chassis.

## APPLICATIONS

- Remote control of a PXI or cPCI chassis via desktop PC
- Remote control of a PXI or cPCI chassis via a PXI chassis with an embedded controller





Toll Free: 888-TEST-BY-PXI • Phone: 949-263-2222 • Fax: 949-263-1203 • email: sales@marvintest.com • www.marvintest.com

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## SPECIFICATIONS

| POWER REQUIREMENTS | |
|---|---|
| MXI-PCIe-X1-A | +3.3 V: 210 mA (max) |
| MXI-PXI-X1-A | +3.3 V: 720 mA (max) |
| **GENERAL** | |
| Maximum Cable Length | 7 M (copper)<br>200 M (fiber) |
| Operating Temperature | 0 °C to +50 °C |
| Storage Temperature | -20 °C to +80 °C |
| Operating Relative Humidity | 10 to 90%, non-condensing |
| Storage Relative Humidity | 10% to 90%, non-condensing |
| Dimensions MXI-PCIe-X1-A | 2.48" x 4.76" (6.3 cm x 12.1 cm) |
| Weight | MXI-PCIe-X1-A: 0.11 lb (typ)<br>MXI-PXI-X1-A: 0.31 lb (typ) |
| Safety | IEC 61010-1, EN 61010-1<br>UL 61010-1, CSA 61010-1 |
| EMC | EN 61326-1 (IEC 61326-1): Class A emissions; Basic immunity<br>EN 55011 (CISPR 11): Group 1, Class A emissions |
| Compatibility | PXI Hardware Specification 2.1, PCI Specification 3.0 |

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

| | |
|---|---|
| **MXI-PCIe-PXI-KIT-A** | MXI-Express Interface Kit including PCIe Interface Card, PXI Interface Card and 3 Meter Cable |
| **MXI-PCIe-X1-A** | PCI Express-to-PCI expansion card for host PC, X1 PCI Express interface - Compatible with MXI-PXI-X1-A |
| **MXI-PXI-X1-A** | PXI interface, X1 - Compatible with MXI-PCIe-X1-A |
| **ACCESSORY** | |
| **MXI-CBL-PCIe-X1-1M-A** | MXI-E x1 Copper Cable 1M |
| **MXI-CBL-PCIe-X1-3M-A** | MXI-E x1 Copper Cable 3M |
| **MXI-CBL-PCIe-X1-7M-A** | MXI-E x1 Copper Cable 7M |

Note: The MXI-4E Series is supplied by a 3rd party and resold by Marvin Test Solutions.







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