

MXIe-EXPRESS

PXI EXPRESS BUS EXPANDER

- Supports remote control of PXI-Express and CompactPCI-Express chassis
- Transparent PCI - Express bridge operation
- Available in x1 or x4 PCI-Express lane configurations
- 192 or 798 MB/s data rate
- Control one or two PXI-Express chassis with a single PCI-Express interface card
- Cabling up to 7 meters
- Rugged connectivity



DESCRIPTION

The MXIe PXI-Express Bus Expanders allows for direct control of PXI-Express systems from any PCI Express slot in a desktop computer or server. MXIe-Express configurations are available for supporting both the x1 and x4 PCI-Express lane configurations. Either lane configuration can remotely control one or two PXI-Express chassis. The MXIe-Express technology utilizes a high-bandwidth link that is transparent to software applications and drivers, providing the ability to use high performance desktop computers or servers to control PXI-Express systems.

FEATURES

Since PXI-Express is based on the industry-standard PCI-Express bus, the MXIe-Express Bus Expanders provide a transparent link where all PXI and PXI-Express modules appear to the user as if they were PCI or PCI-Express 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 MXIe-Express employs a high speed serial link to control the PXI-Express chassis. Interfacing cables for the MXIe-Express are available in 3 and 7 meter lengths.

The MXIe-Express is available in several configurations. A x1 lane configuration supports a sustained data throughput rate of 192 MB/s and the x4 lane configuration supports a sustained data throughput rate of 798 MB/s. Optionally, the x1 and x4

configurations can control two PXI-Express chassis by utilizing a two-port, PCI-Express interface card. The basic MXIe-Express kit consists of a single port PCI-Express interface card, a 3 meter interface cable, and a PXI-Express interface card. Individual kit components may be purchased separately for spares or to meet your specific requirements.

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SPECIFICATIONS

POWER REQUIREMENTS	
+5 V	PXIe (x1): 0.3 A (Typ.); 0.4 A (Max.) , (5 V aux) PXIe (x4): 1 mA (Typ.); 3 mA, (Max.)
+3.3 V	PXIe (x1): 2.5 A (Typ.); 3 A (Max.) PXIe (x4): 2.2 A(Typ.); 2.8 A (Max.) PCIe (x1): 1.8 A (Typ.); 2.0 A (Max.) , (x1 or x2 config.) PCIe (x4): 2.5 A (Typ.); 3 A (Max.), (x1 or x2 config.) 1 mA (Typ.); 10 mA (Max.), (3.3 V aux)
+12 V	PXIe (x4): 0.3 A (Typ.); 0.4 A (Max)
GENERAL	
MAX. CABLE LENGTH	7 meters
TEMPERATURE	
OPERATING	0° to 55° C
STORAGE	-20° to 70° C
RELATIVE HUMIDITY	
OPERATING	10 to 90%, noncondensing
STORAGE	5 to 95%, noncondensing
SHOCK & VIBRATION	Operational shock 30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC-60068-2-27. Test profile developed in accordance with MIL-PRF-28800F.)
RANDOM VIBRATION	
OPERATING	5 to 500 Hz, 0.3 grms
NON-OPERATING	5 to 500 Hz, 2.4 grms (Tested in accordance with IEC-60068-2-64. Non-operating profile exceeds the requirements of MIL-PRF-28800F, Class 3.)
DIMENSIONS	
PXI-EXPRESS I/F	3U PXI slot, 10.0 x 16.0 cm (3.9" x 6.3")
PCI-EXPRESS	10.7 x 17.5 cm (4.4"x 6.9")
COMPATIBILITY	Fully compatible with PXI Express Hardware Specification 1.0 and PICMG CompactPCI Express EXP.0 R1.0 Specifications.

Note(s): Specifications are subject to change without notice. For full EMC compliance, this device must be operated with shielded cabling. In addition, all covers and filler panels must be installed.

ORDERING INFORMATION

MXIe-EXPRESS KITS	
MXIe1-EXPRESS	MXIe-Express Kit; x1 PCIe I/F card, x1 PXIe I/F card, and 3 meter cable
MXIe4-EXPRESS	MXIe-Express Kit; x4 PCIe I/F card, x4 PXIe I/F card, and 3 meter cable
MXIe-EXPRESS OPTIONS / ACCESSORIES	
MXIe1-PXI	x1 PXIe Interface card
MXIe4-PXI	X4 PXIe Interface card
MXIe1-PCI-1	x1 PCIe Interface card, single port
MXIe1-PCI-2	x1 PCIe Interface card, two port
MXIe4-PCI-1	X4 PCIe Interface card, single port
MXIe4-PCI-2	X4 PCIe Interface card, two port
MXIe-CBL-3M	MXIe cable, 3 meter
MXIe-CBL-7M	MXIe cable, 7 meter