

MXIe-Express Series



PXI EXPRESS BUS EXPANDER

- Supports remote control of PXI-Express and CompactPCIExpress 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 Expander 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 PXIExpress 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 1, 3 and 7 meter lengths for the x1 interface and 3 and 7 meter lengths for the x4 interface.

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.

APPLICATIONS

- Remote control of PXIe chassis
- Remote control of cPCIe chassis

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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.)
+3.3 V aux	1 mA (typ); 10 mA (max)
+12 V	PXIe (x4): 0.3 A (typ); 0.4 A (max)
ENVIRONMENTAL TEMPERATURE RANGE	
Operating	0 °C to +55 °C
Storage	-20 °C to +70 °C
RELATIVE HUMIDITY	
Operating	10 to 90%, non-condensing
Storage	5 to 95%, non-condensing
SHOCK AND 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 G rms
Random Vibration (non-operating)	5 to 500 Hz, 2.4 G rms (Tested in accordance with IEC 600060-2-64. 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")
GENERAL	
Maximum Cable Length	7 meters
Compatibility	Fully compatible with PXI Express Hardware Specification 1.0 and PICMG CompactPCI Express EXP.0 R1.0 Specifications.

Note: Specifications are subject to change without notice

ORDERING INFORMATION

MXIe1-Express	MXI-Express Interface Kit (PCIe I/F Card, PXIe I/F Card, 3-Meter Cable). 192MB Throughput, includes 2-port PCIe card
MXIe4-Express-1	MXI-Express Interface Kit (PCIe I/F Card, PXIe I/F Card, 3-Meter Cable). 798MB Throughput, 1-port PCIe card
ACCESSORY	
MXIe-CBL-3M	MXIe Cable, 3 Meter
MXIe-CBL-7M	MXIe Cable, 7 Meter
MXI-E-CBL-1M	MXI-E x1 Copper Cable 1m
MXI-E-CBL-3M	MXI-E x1 Copper Cable 3m
MXI-E-CBL-7M	MXI-E x1 Copper Cable 7m
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 MXIe-Express Series is supplied by a 3rd party and resold by Marvin Test Solutions.