MXIe-x16 SERIES

PRELIMINARY DATASHEET

MARVIN TEST SOLUTIONS

PXI EXPRESS BUS EXPANDER X16 GEN 3,1 PORT,3M CBL

- Supports remote control of PXI-Express and Compact PCI Express chassis
- Transparent PCI - Express bridge operation
- x16 Gen 3 PCI-Express lane configurations
- 5GB/s data rate
- Control one PXI-Express chassis with a single PCI Express interface card
- 3 meters Cable
- 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 supporting x16 (5GB/s) PCI-Express lane to remotely control one 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 3 meter length.

APPLICATIONS

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

The MXIe-Express is available in x16 configuration supports a sustained data throughput rate of 5GB/s

CHASSIS AND CONTROLLERS

MXIe-x16 SERIES

MARVIN TEST SOLUTIONS

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

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ORDERING INFORMATION

MXIe-Express-x16	PXIe, PCIe, 3m Cbl
PCIe Device for PXI Remote Control x16	PCIe Device for PXI Remote Control x16
PXIe Remote Control x16	PCIe Device for PXI Remote Control x16
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- AD	MXI-E x1 Copper Cable 1M
MXI-CBL-PCIe-X1-3M- AD	MXI-E x1 Copper Cable 3M
MXI-CBL-PCIe-X1-7M- AD	MXI-E x1 Copper Cable 7M

Note: The MXIe-x16 Series is supplied by a 3rd party and resold by Marvin Test Solutions.