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PCI Express Control of PXI (MXI-Express)

NI PXI-PCle8361, NI PXI-PCle8362, NI PCle-8361, NI PCle-8362, NI PXI-8360 **NEW!**

- PCI Express control of PXI/CompactPCI
- Control of two PXI/CompactPCI chassis from a single PCI Express board (NI PCle-8362)
- Sustained throughput
 - 160 MB/s (2 chassis)
 - 110 MB/s (1 chassis)
- Rugged connectivity



Overview

With National Instruments MXI-Express interface kits, PC users with PCI Express slots can exercise direct control of PXI systems using cabled PCI Express technology. NI MXI-Express, a high-bandwidth serial link transparent to software applications and drivers, provides the ability to use high-performance desktop computers, servers, and workstations to control PXI systems.

PCI Express Control of PXI

With a MXI-Express link, you can transparently control a PXI system from any PCI Express slot, so you can use desktop computers, servers, and workstations to control PXI systems. MXI-Express features a transparent link where all PXI modules appear as PCI boards within the computer itself. However, you benefit from the increased number of slots, power and cooling per slot, module selection, and synchronization features provided by PXI.

The MXI-Express link consists of an NI PCle-8361 or NI PCle-8362 board in the PC that is connected via a MXI-Express cable to a PXI-8360 module in slot 1 of a PXI chassis. The NI PCle-8361 board provides one PCI Express link, which you can cable to a PXI-8360 module in a PXI chassis. The NI PCle-8362 board provides two PCI Express links, each of which you can cable to individual PXI-8360 modules in separate PXI chassis. Thus, you can use a single NI PCle-8362 board to simultaneously control two PXI systems. For your convenience, you can purchase either a complete MXI-Express kit with all necessary components or the PCI Express board, PXI module, and cable separately.

Cabled PCI Express Technology

The NI PCle-8361 and NI PCle-8362 boards provide one or two cabled PCI Express links, respectively. The links have x1 (“by one”) lane widths. The PXI-8360 module includes a bridge that converts the PCI Express link to the PCI bus used in PXI. Thus, all PXI modules appear as PCI boards within the computer itself.

PCI Software Compatibility

PCI Express features software compatibility with PCI. Without making any modifications to your software, you can use MXI-Express with an application written for a PXI system controlled via a PCI remote controller, such as MXI-3 or MXI-4.

Multichassis PXI Systems

You can use a single NI PCle-8362 board to simultaneously control two PXI systems. You also can incorporate multiple NI PCle-8361 or NI PCle-8362 boards in a PC with multiple PCI Express slots to add PXI chassis to a system. You cannot use a PXI-8360 module to connect multiple PXI chassis. However, using MXI-4, you can connect multiple PXI chassis in a star or daisy-chain configuration within a single system. To connect two PXI chassis together with MXI-4, install a National Instruments PXI-8331 (copper) or PXI-8336 (fiber-optic) module into any peripheral slot of the master chassis, and connect with the appropriate cable to a second PXI-8331 or PXI-8336 in slot 1 of the slave chassis.



PCI Express Control of PXI (MXI-Express)

Specifications

Specifications are subject to change without notice.

Bus Interface

Form Factor.....	x1 PCI Express
Slot Compatibility.....	x1, x4, x8, and x16 ¹ PCI Express slots
	¹ Some motherboard manufacturers intend the x16 slot for graphics use and preinstall a graphics board. Check with the motherboard manufacturer for alternative graphics solutions if using the x16 slot for a nongraphics board.

Power Requirements

Power Rail	Typical Current	Maximum Current
+3.3 V	1.500 A	1.750 A
+5 V	5 mA	20 mA
+12 V	5 mA	20 mA
-12 V	0 mA	0 mA

NI PCIe-8361 and NI PCIe-8362

Power Rail	Typical Current	Maximum Current
+3.3 V	1.800 A	2.000 A
+3.3 V Aux	0 A	0 A
+12 V	0 A	0 A

Physical

Dimensions	
PXI-8360.....	10.0 by 16.0 cm (3.9 by 6.3 in.)
NI PCIe-8361 and NI PCIe-8362.....	10.7 by 17.5 cm (4.4 by 6.9 in.)
Slot requirements	
PXI-8360.....	One 3U PXI system controller slot
NI PCIe-8361 and NI PCIe-8362.....	One PCI Express slot
Maximum cable length.....	7 m
Compatibility.....	Fully compatible with the <i>PXI Hardware Specification</i> , Revision 2.1, and the <i>PCI Express Specification</i> , Revision 1.0a

Operating Environment

PXI-8360	
Ambient temperature range.....	0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Operating relative humidity.....	10 to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)
NI PCIe-8361 and NI PCIe-8362	
Ambient temperature range.....	0 to 40 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Operating relative humidity.....	10 to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)

Storage Environment

Ambient temperature range.....	-20 to 70 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Storage relative humidity.....	5 to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)

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.)
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Random Vibration

Operating.....	5 to 500 Hz, 0.3 g _{rms}
Nonoperating.....	5 to 500 Hz, 2.4 g _{rms} (Tested in accordance with IEC-60068-2-64. Nonoperating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Note: For full EMC compliance, operate this device with shielded cabling. In addition, all covers and filler panels must be installed. Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit ni.com/certification, search by model number or product line, and click the appropriate link in the Certification column.

Ordering Information

For online configuration of a complete PXI system, including chassis, modules, and all accessories, visit ni.com/pxiadvisor.

MXI-Express Kit for PXI/CompactPCI

NI PXI-PCIe8362.....	779503-03
Kit includes one PCI Express board (NI PCIe-8362), one PXI module (PXI-8360), and one 3 m cable.	
NI PXI-PCIe8361.....	779505-03
Kit includes one PCI Express board (NI PCIe-8361), one PXI module (PXI-8360), and one 3 m cable.	

PXI MXI-Express Interface Module

NI PXI-8360.....	779501-01
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PCI Express MXI-Express Interface Board

NI PCIe-8362.....	779502-01
NI PCIe-8361.....	779504-01

MXI-Express Cable

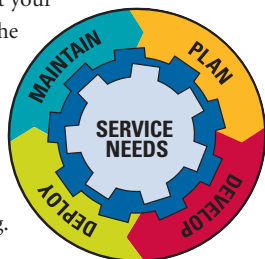
3 m.....	779500-03
7 m.....	779500-07

BUY NOW!

For complete product specifications, pricing, and accessory information, call (866) 265 9891 (U.S. only) or go to ni.com/pxiadvisor.

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Hardware Services

NI Factory Installation Services

NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with ni.com/pxiadvisor.

Calibration Services

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit ni.com/calibration.

Repair and Extended Warranty

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