Laptop Control of PXI with ExpressCard (ExpressCard MXI)

NI PXI-ExpressCard8360, NI ExpressCard-8360, NI PXI-8360 *NEW!*

- Laptop control of PXI/CompactPCI
- ExpressCard-to-PXI remote control
- 110 MB/s sustained throughput
- ExpressCard/34 module, compatible with both ExpressCard/34 and ExpressCard/54 slots
- Cabling up to 7 m with rugged screw-in connectors
- Ability to use the same PXI module and cable as MXI-Express
- Software-transparent link that requires no programming



Overview

The National Instruments ExpressCard MXI interface kit gives you direct control of PXI systems via your laptop computer. The ExpressCard-to-PXI link is transparent to software applications and drivers, therefore, it provides the ability to use laptop computers to control PXI systems. The NI ExpressCard MXI interface kit is ideal for portable systems such as those used for field tests, and you can pair it with DC-powered chassis to provide mobile solutions for applications such as in-vehicle data logging.

ExpressCard Control of PXI

With an ExpressCard MXI link, you can transparently control a PXI system from a laptop computer with either an ExpressCard/34 or ExpressCard/54 slot. The ExpressCard MXI link consists of an NI ExpressCard-8360 card in the laptop computer connected via an ExpressCard MXI cable to an NI PXI-8360 module in slot 1 of a PXI chassis. The NI ExpressCard-8360 card provides a x1 (by one) PCI Express link that is cabled to the PXI-8360 module.

The PXI-8360 module includes a bridge that converts the PCI Express link to the PCI bus that is used in PXI. Thus, all PXI modules appear as if they are 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.

For a list of compatible laptop computers, visit the NI PXI-ExpressCard8360 model page on ni.com/pxi.

Compatibility with MXI-Express

The ExpressCard MXI kit uses the same PXI module and cable as the MXI-Express kits (NI PXI-PCIe836x) that provide PCI Express control of PXI from desktop computers, servers, and workstations. Because of this, you can use both your laptop and desktop computers to control the same PXI system without having to replace the PXI controller module or cable.

Ordering Information

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

ExpressCard MXI Kit for PXI/CompactPCI

PXI Interface Module

	171 Interrupe module			
	NI PXI-8360	779501-01		
	ExpressCard MXI Interface			
	NI ExpressCard-8360	779507-01		
ExpressCard MXI Cables				
	3 m	779500-03		
	7 m	779500-07		

BUY NOW!

For complete product specifications, pricing, and accessory information, call (800) 813 3693 (U.S.) or go to ni.com/pxi.



Laptop Control of PXI with ExpressCard (ExpressCard MXI)

Specifications

Specifications are subject to change without notice.

Power Requirements

PXI-8360

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

NI ExpressCard-8360

Power Rail (V)	Typical Current (mA)	Maximum Current (mA)
+3.3	220	280
+3.3 (AUX)	20	30
+1.5	0	0

Physical

Dimensions	
PXI-8360	10.0 by 16.0 cm (3.9 by 6.3 in.)
NI ExpressCard-8360	10.2 by 3.4 cm (4.0 by 1.3 in.)
Slot requirements	
PXI-8360	One 3U PXI system controller slot
NI ExpressCard-8360	One ExpressCard/34 or ExpressCard/54 slot
Maximum cable length	7 m
Compatibility	Fully compatible with the PXI Hardware Specification, Revision 2.1, and the PCMCIA ExpressCard Standard, Revision 1.0 or later
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 ExpressCard-8360	
Ambient temperature range	0 to 65 °C (tested in accordance with IEC-60068-2-1 and IEC-60068-2-2)
Operating relative humidity	5 to 95%, 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	
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 q _{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.

NI Services and Support



NI has the services and support to meet your needs around the globe and through the application life cycle – from planning and development through deployment and ongoing maintenance. We offer services and service levels to meet customer requirements in research, design, validation, and manufacturing. Visit ni.com/services.

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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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