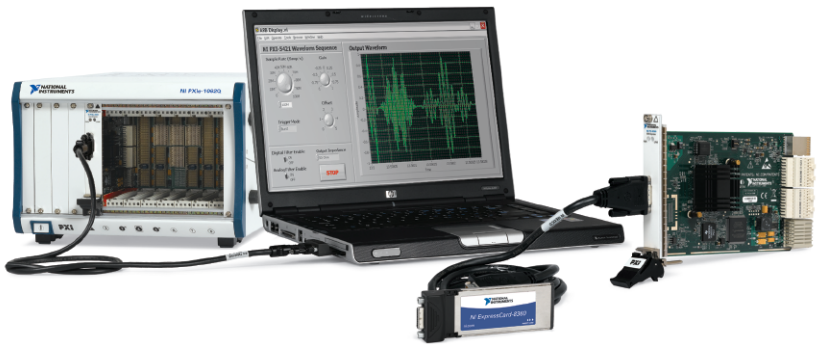
Laptop Control of PXI (ExpressCard MXI for PXI Express)

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

- Higher throughput
- ExpressCard MXI control of PXI Express/CompactPCI Express
- 214 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 Express module (NI PXIe-8360) and cable as MXI-Express for PXI Express
- Software-transparent link that requires no programming



Overview

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

ExpressCard MXI Control of PXI Express

With an ExpressCard MXI for PXI Express link, you can transparently control a PXI Express system from a laptop computer with either an ExpressCard/34 or ExpressCard/54 slot. The ExpressCard MXI for PXI Express link consists of an NI ExpressCard-8360 card in the laptop computer connected via an ExpressCard MXI cable to an NI PXIe-8360 module in slot 1 of a PXI Express chassis. The NI ExpressCard-8360 card provides a x1 ("by one") PCI Express link that is cabled to the NI PXIe-8360 module. Thus, all PXI and PXI Express 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 PXIe-ExpressCard8360 model page on **ni.com/pxi**.

Compatibility with MXI-Express for PXI Express

The ExpressCard MXI for PXI Express kit uses the same PXI Express module (NI PXIe-8360) and cable as the MXI-Express for PXI Express kits (NI PXIe-PCIe836x) that provide PCI Express control of PXI Express from desktop computers, servers, and workstations. Because of this, you can use both your laptop and desktop computers to control the same PXI Express system without having to replace the 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 for PXI Express/CompactPCI Express Kit

NI PXIe-ExpressCard8360 with 3 m cable 779703-03

Kit includes one ExpressCard card (NI ExpressCard-8360), one PXI Express module (NI PXIe-8360), and one 3 m cable.

MXI-Express for PXI Express Interface Module

NI PXIe-8360.....779700-01

ExpressCard Interface Card

NI ExpressCard-8360 779507-01

MXI-Express/ExpressCard MXI Cables

1 m 779500-01

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/pxiadvisor.**

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Specifications

Specifications are subject to change without notice.

Power Requirements

NI PXIe-8360

Power Rail	Typical Current	Maximum Current
+3.3 V	2.5 A	3 A
+5 V	0 A	0 A
+12 V	0 A	0 A
+5 V_{AUX}	0.3 A	0.4 A

ExpressCard-8360

Power Rail	Typical Current	Maximum Current
+3.3 V	220 mA	280 mA
+3.3 V_{AUX}	20 mA	30 mA
+1.5 V	0 mA	0 mA

Physical

Dimensions

- NI PXIe-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

- NI PXIe-8360 ..... One 3U PXI Express system controller slot
- NI ExpressCard-8360 ..... One ExpressCard/34 or ExpressCard/54 slot
- Maximum cable length ..... 7 m
- Compatibility ..... Fully compatible with the PXI Express Hardware Specification, Revision 1.0, and the PCMCIA ExpressCard Standard, Revision 1.0 or later

Operating Environment

NI PXIe-8360

- Ambient temperature range ..... 0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)
- Relative humidity range ..... 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.)
- Relative humidity range ..... 5 to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)

Storage Environment

NI PXIe-8360

- Ambient temperature range ..... -40 to 71 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 limits.)
- Relative humidity range ..... 5 to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)

NI ExpressCard-8360

- Ambient temperature range ..... -20 to 65 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
- Nonoperating thermal shock ..... -20 to 65 °C, 5 shocks

Shock

NI PXIe-8360

- Operating shock ..... 30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC-60068-2-27. Meets MIL-PRF-28800F Class 2 limits.)

NI ExpressCard-8360

- Nonoperating shock ..... 50 g, 11 ms (Tested in accordance with IEC 60068-2-27.)

Vibration

NI PXIe-8360

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.)

NI ExpressCard-8360

- Nonoperating vibration, sinusoidal ..... 15 g, 100 to 2000 Hz (Tested in accordance with IEC 60068-2-6.)

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**.

Training and Certification

NI training is the fastest, most certain route to productivity with our products. NI training can shorten your learning curve, save development time, and reduce maintenance costs over the application life cycle. We schedule instructor-led courses in cities worldwide, or we can hold a course at your facility. We also offer a professional certification program that identifies individuals who have high levels of skill and knowledge on using NI products. Visit **ni.com/training**.

Professional Services

Our Professional Services Team is comprised of NI applications engineers, NI Consulting Services, and a worldwide National Instruments Alliance Partner program of more than 600 independent consultants and integrators. Services range from start-up assistance to turnkey system integration. Visit **ni.com/alliance**.

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Certified Alliance Partner

OEM Support

We offer design-in consulting and product integration assistance if you want to use our products for OEM applications. For information about special pricing and services for OEM customers, visit **ni.com/oem**.

Local Sales and Technical Support

In offices worldwide, our staff is local to the country, giving you access to engineers who speak your language. NI delivers industry-leading technical support through online knowledge bases, our applications engineers, and access to 14,000 measurement and automation professionals within NI Developer Exchange forums. Find immediate answers to your questions at **ni.com/support**.

We also offer service programs that provide automatic upgrades to your application development environment and higher levels of technical support. Visit **ni.com/ssp**.

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

NI provides complete repair services for our products. Express repair and advance replacement services are also available. We offer extended warranties to help you meet project life-cycle requirements. Visit **ni.com/services**.

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