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2.26 GHz Quad-Core Embedded Controller for PXI

NI PXI-8110



- Intel Core 2 Quad Q9100 processor (2.26 GHz quad core)
- 2 GB (1 x 2 GB DIMM) dual-channel 800 MHz DDR2 RAM standard, 4 GB (1 x 4 GB DIMMs) maximum
- High-performance 7200 rpm integrated hard drive with standard option
- Up to 132 MB/s system and slot bandwidth
- 10/100/1000BASE-TX Ethernet port and four Hi-Speed USB ports
- Other peripherals (ExpressCard/34 slot, DVI-I video connector, IEEE 1284 ECP/EPP parallel port, GPIB (IEEE 488) controller, and RS232 serial port)
- Software - OS and drivers already installed and hard-drive-based recovery image
- Complete PXI system configuration at ni.com/pxiadvisor

Overview

The NI PXI-8110, an extreme-performance embedded controller based on the Intel Core 2 Quad Q9100 processor, is designed for use in PXI and CompactPCI systems. With its 2.26 GHz quad-core processor; 2 GB, 800 MHz DDR2 standard memory; and a high-performance, 7200 rpm drive, the PXI-8110 is ideal for applications requiring intensive analysis, signal and image processing, and execution of complex system models. This embedded controller in a PXI chassis offers a compact, high-performance PC-based platform for test, measurement, and control applications.

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Requirements and Compatibility

OS Information

- Windows 7
- Windows 7 64-bit
- Windows Vista
- Windows XP

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Application and Technology

NI PXI-8110 Features

CPU	Intel Core 2 Quad Q9100 processor (2.26 GHz quad core)
Front-side bus	1066 MHz
L2 cache	12 MB
System bandwidth	132 MB/s
Slot bandwidth	132 MB/s
Dual-channel 800 MHz DDR2 RAM, standard	2 GB (1 x 2 GB)

Dual-channel 800 MHz DDR2 RAM, maximum	4 GB (1 x 4 GB)
Hard drive (standard option), minimum	120 GB SATA (7200 rpm)
Hard drive (extended temperature and 24/7 option), minimum	80 GB SATA (5400 rpm)
10/100/1000BASE-TX (Gigabit) Ethernet ports	1
Hi-Speed USB ports	4
GPIO (IEEE 488) controller	
Serial port (RS232)	
Parallel port	
ExpressCard/34 slot	
Watchdog/trigger SMB	
Installed OS ¹	Windows 7 Professional, Windows Vista Business, and Windows XP Professional for Embedded Systems ²

¹Contact National Instruments or visit ni.com/pxiadvisor for information on other available operating systems.

²Due to the [Microsoft support life cycle](#) for Windows XP, National Instruments will be unable to provide PXI embedded controllers with Windows XP preinstalled after 2015. View the [Microsoft support life cycle](#) for full details about Windows XP end of life for OEM partners.

Quad-Core Processor

The PXI-8110 includes the quad-core Intel Core 2 Quad Q9100 processor. Quad-core processors contain four cores, or computing engines, in one physical package. They can simultaneously execute four computing tasks, which is advantageous in multitasking environments such as Windows Vista or Windows XP, where multiple applications run simultaneously. Multithreaded system development environments, such as NI LabVIEW, can take full advantage of the available four processing cores on the PXI-8110 by automatically separating their tasks into independent threads. With its quad-core processor, this controller can simultaneously execute four of these threads. Figure 1 compares the SYSmark 2007 overall performance of the PXI-8110 controller with other PXI embedded controllers.

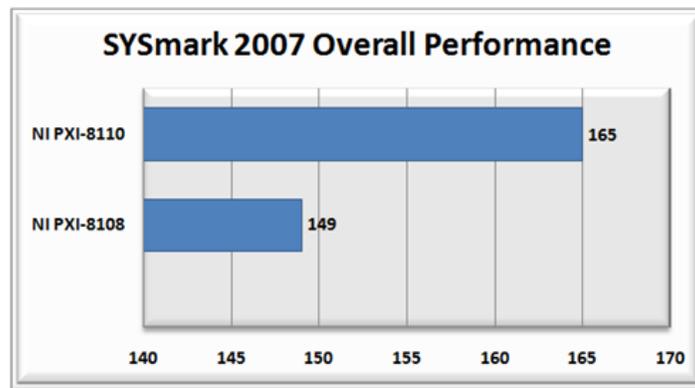


Figure 1. Embedded Controller Benchmarks

To fully exercise the four cores on the PXI-8110, applications must be architected to create four independent execution threads by implementing programming strategies such as task parallelism, data parallelism, and pipelining. As an example of its high performance, the PXI-8110 can process up to 215,000 1K fast Fourier transforms (FFTs) per second, which is about 80 percent faster than the NI PXI-8108 dual-core embedded controller. Previously, you could achieve this type of performance only by using a bulky workstation. The PXI-8110 provides this same capability in a compact, 3U form factor. For in-depth multicore programming resources, visit ni.com/multicore.

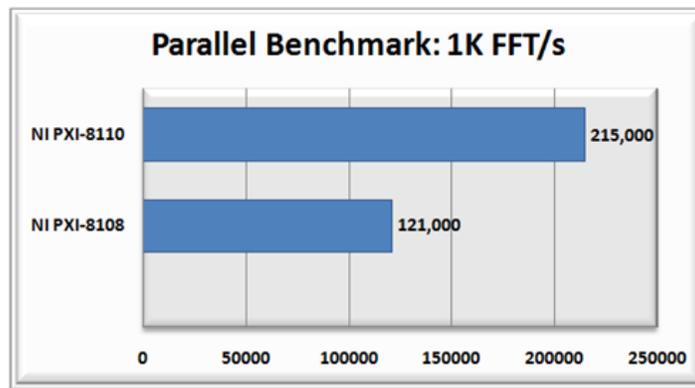


Figure 2. The PXI-8110 can process 215,000 1K FFTs per second, which is about 80 percent faster than the NI PXI-8108 embedded controller.

Hardware

With state-of-the-art packaging, the PXI-8110 integrates the Intel Core 2 Quad Q9100 processor and all standard and extended PC I/O ports into a single unit. Because many of the I/O ports on the controller are integrated, all active slots in the chassis remain available for measurement and control modules. This rugged one-piece controller design

minimizes integration issues and eliminates the need for complex cabling to daughter boards. The PXI-8110 block diagram is shown in Figure 3.

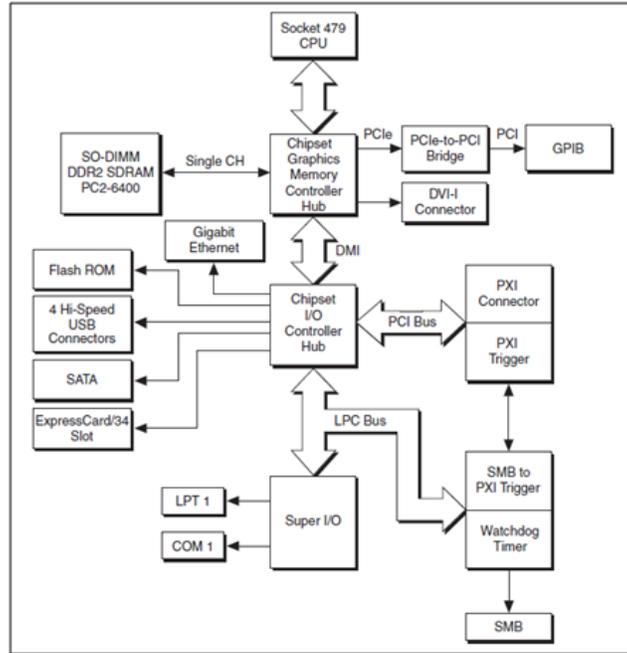


Figure 3. NI PXI-8110 Block Diagram

Peripheral I/O

The PXI-8110 includes high-performance peripheral I/O such as 10/100/1000BASE-TX (Gigabit) Ethernet and four Hi-Speed USB ports for connection to a keyboard, a mouse, a CD-ROM/DVD-ROM drive for software installation, or other standard PC peripherals such as speakers, printers, or memory sticks. Use the IEEE 1284 ECP/EPP parallel port to connect to a wide variety of devices, including tape backup drives, printers, and scanners. An RS232 port is available for connecting to serial devices. Additionally, the PXI-8110 controller includes an integrated GPIB (IEEE 488) controller, which provides control of external instrumentation, saving additional cost and a slot.

ExpressCard

This embedded controller features an ExpressCard/34 slot. ExpressCard uses the PCI Express and Hi-Speed USB serial interfaces to provide up to 2.5 Gbit/s of bidirectional throughput. Use the ExpressCard/34 slot to add a second Gigabit Ethernet port to your system or additional peripheral I/O such as external hard drives, RAID arrays, 802.11 wireless LAN, IEEE 1394, Bluetooth, or various memory adapters.

Video

The PXI-8110 includes a Mobile Intel GM45 Express Chipset (Graphics and Memory Controller Hub) that has an integrated graphics processing unit. It delivers intense, realistic 3D graphics with sharp images, fast rendering, smooth motion, and high detail, without the need for an additional video card or peripheral. This unique architecture provides balanced memory usage between graphics and the system for optimal performance. Additionally, the PXI-8110 features a DVI-I video connector that is compatible with digital (DVI) and analog video (VGA) monitors. A DVI-I to VGA adapter is included with the controller for use with VGA monitors.

Dual Monitor Support

The DVI-I video port on the PXI-8110 is capable of supporting simultaneous DVI and VGA output. With this built-in capability, you can connect a digital and an analog monitor or two analog monitors to your PXI system at the same time with independent displays. This negates the need for a separate PXI or CompactPCI video module to connect two monitors to your PXI system. A DVI-I (male) to DVI-D (female) and VGA (female) splitter is required for connecting the two monitors.

Memory

The PXI-8110 uses dual-channel 800 MHz DDR2 SDRAM, which makes the controller ideal for data-intensive applications requiring significant analysis. It has a single SO-DIMM socket for the DDR2 SDRAM. 2 GB (1 x 2 GB DIMM) of RAM is standard with upgrade options to 4 GB.

Memory Options	Configuration	Part Number
Standard - 2 GB	1 x 2 GB DIMM	780446-2048
Recommended - 4 GB	1 x 4 GB DIMM	780446-4096

Table 1. Memory Upgrade Options

Extended Temperature and 24/7 Operation Option

This embedded controller is available in two versions to address different environmental and usage conditions. The primary difference is that the version for extended temperature and 24/7 operation uses a different hard drive, designed for both reliability in low- and high-temperature extremes and 24/7 operation. The standard version of the controllers has an operating temperature of 5 to 50 °C and a storage temperature of -40 to 65 °C. The extended temperature and 24/7 operation version has an operating temperature of 0 to 55 °C and a storage temperature of -40 to 70 °C. You can also use the extended temperature and 24/7 operation version for applications that require continuous operation for up to 24 hours/day, seven days/week because the hard drive is rated for 24/7 operation. The hard drive in the standard version of the controllers is designed to be powered on for eight hours/day, five days/week.

Additionally, 24/7 operation applications may subject the hard drive to a high duty cycle (the percentage of the maximum sustained throughput of the hard drive). The hard drive in the standard version of the controllers is designed for a 20 percent duty cycle. The hard drive in the extended temperature and 24/7 operation version has a capacity of 80 GB (minimum). See specifications for further details.

USB Peripherals

National Instruments offers a USB-to-dual-PS/2 keyboard/mouse adapter cable to connect a legacy PS/2 keyboard and mouse to a single USB port on your embedded controller. Additionally, NI offers external USB CD-ROM/DVD-ROM and USB floppy drives for use with your embedded controller. Connect these drives to your embedded controller for easy software installation and upgrades. Both are completely powered through the USB ports, so no external power connections are required. Additional USB peripherals, such as USB speakers to add audio, or USB memory sticks to add easily removable memory, are widely available from PC peripheral manufacturers.

Additional Peripheral I/O

National Instruments offers numerous plug-in modules to add more peripheral I/O to your PXI system. With the wide variety of peripheral I/O modules available, you can choose modules that add communication with serial, IEEE 1394, and SCSI, in addition to numerous others. You also can obtain modules for controlling other PXI or VXI/VME systems. Visit ni.com/pxiadvisor to configure a system with additional peripheral I/O modules.

Hard-Drive-Based Recovery Image

The PXI-8110 embedded controller is shipped with a factory image of the software installation stored on a separate partition of the hard drive. In the case of software corruption, you can invoke a recovery tool during the controller's boot-up process that can use this backup image to restore the controller to its shipping software configuration. You also can use this recovery tool to create custom images that you can store on external mass storage devices such as a USB memory stick, USB hard drives, and USB CD/DVD drives. With this ability, you can create custom backup images that you can use to either recover a PXI-8110 controller or replicate the installation on other PXI-8110 controllers. For more information on this tool, refer to [KnowledgeBase 22KC02OK](#).

Software

The PXI-8110 comes with the following minimum set of software already installed:

- Microsoft Windows OS (contact National Instruments or visit ni.com/pxiadvisor for a list of available Microsoft OSs and for localized versions)
- Hard-drive-based recovery image
- NI-VISA and NI-488.2 drivers
- Drivers for all built-in I/O ports

With the NI Standard System Assurance Program added to a PXI system order, your embedded controller is shipped already configured with all software and drivers applicable for your system. For example, assume you order a PXI system that includes LabVIEW and NI TestStand software, as well as data acquisition modules, a digitizer, an arbitrary waveform generator, and a digital multimeter (DMM). With the standard program, NI not only assembles and tests your system but also fully configures the embedded controller with the appropriate NI-DAQmx, NI-SCOPE, NI-FGEN, and NI-DMM drivers as well as LabVIEW and NI TestStand.

To configure a complete PXI system with the NI Standard System Assurance Program, contact National Instruments or visit ni.com/pxiadvisor.

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Ordering Information

For a complete list of accessories, visit the product page on ni.com.

Products	Part Number	Recommended Accessories	Part Number
NI PXI-8110			
NI PXI-8110 Windows 7 32-bit	780690-04	No accessories required.	
NI PXI-8110 Windows Vista	780690-02	No accessories required.	
NI PXI-8110 Windows Vista Extended Temp	780691-02	No accessories required.	
NI PXI-8110 Downgraded to Windows XP	780690-01	No accessories required.	
NI PXI-8110 Downgraded to Windows XP Extended Temp	780691-01	No accessories required.	
NI PXI-8110 Windows 7 32-bit Extended Temp	780691-04	No accessories required.	
Other Accessories			
DVI-I (male) to DVI-D (female) & VGA (female) Splitter	780868-01	No accessories required.	
USB to Dual PS2 Keyboard/Mouse Adapter Cable	778713-02	No accessories required.	
USB English Keyboard and Optical USB Mouse	779660-01	No accessories required.	
External USB CD/DVD-ROM for Use with PXI & VXI Emb Controllers	778492-01	No accessories required.	
External USB Floppy Drive, for PXI & VXI Embedded Controllers	778492-02	No accessories required.	
ExpressCard Strain Relief Accessory for PXI Embedded Controllers	192524-01	No accessories required.	
IEEE 1284 Parallel Port Cable Adapter, 6 in.	777169-01	No accessories required.	
X13 GPIB Cable, MicroD25 to Shielded cable/Standard connector, 2M	183285-02	No accessories required.	
FPM-1017 17in. Flat Panel Monitor with VGA Input for PC's	779559-01	No accessories required.	
NI MKD-1117 Rackmount 1U LCD Monitor, Keyboard, Mouse Drawer	779872-01	No accessories required.	
FPT-1015 15in. Flat Panel Touch Screen with VGA Interface and USB	779560-01	No accessories required.	
Expresscard to Gigabit Ethernet Adapter (Windows Only)	781150-01	No accessories required.	
Memory Upgrades			
2 GB DDR2 RAM	780446-2048	No accessories required.	
4 GB DDR2 RAM	780446-4096	No accessories required.	
Hard-Drive Spare/Replacement and Upgrades			

500 GB 2.5 in SATA Hard Drive Upgrade	781946-01	No accessories required.
250 GB 2.5 in MLC SATA Solid State Hard Drive Upgrade	781945-01	No accessories required.
250 GB (or Greater) 2.5 in SATA Hard Drive Upgrade	779175-06	No accessories required.
32 GB 2.5 in SATA Solid State Hard Drive Upgrade	779175-08	No accessories required.
120 GB (or greater) 7200 RPM Blank Hard-Drive Spare/Replacement	780970-01	No accessories required.
80 GB (or Greater) 2.5 in SATA Ext. Temp, 24/7 Hard Drive Upgrade	779175-07	No accessories required.

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Support and Services

System Assurance Programs

NI system assurance programs are designed to make it even easier for you to own an NI system. These programs include configuration and deployment services for your NI PXI, CompactRIO, or Compact FieldPoint system. The NI Basic System Assurance Program provides a simple integration test and ensures that your system is delivered completely assembled in one box. When you configure your system with the NI Standard System Assurance Program, you can select from available NI system driver sets and application development environments to create customized, reorderable software configurations. Your system arrives fully assembled and tested in one box with your software preinstalled. When you order your system with the standard program, you also receive system-specific documentation including a bill of materials, an integration test report, a recommended maintenance plan, and frequently asked question documents. Finally, the standard program reduces the total cost of owning an NI system by providing three years of warranty coverage and calibration service. Use the online product advisors at ni.com/advisor to find a system assurance program to meet your needs.

Technical Support

Get answers to your technical questions using the following National Instruments resources.

- **Support** - Visit ni.com/support to access the NI KnowledgeBase, example programs, and tutorials or to contact our applications engineers who are located in NI sales offices around the world and speak the local language.
- **Discussion Forums** - Visit forums.ni.com for a diverse set of discussion boards on topics you care about.
- **Online Community** - Visit community.ni.com to find, contribute, or collaborate on customer-contributed technical content with users like you.

Repair

While you may never need your hardware repaired, NI understands that unexpected events may lead to necessary repairs. NI offers repair services performed by highly trained technicians who quickly return your device with the guarantee that it will perform to factory specifications. For more information, visit ni.com/repair.

Training and Certifications

The NI training and certification program delivers the fastest, most certain route to increased proficiency and productivity using NI software and hardware. Training builds the skills to more efficiently develop robust, maintainable applications, while certification validates your knowledge and ability.

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- **On-site training at your facility** - an excellent option to train multiple employees at the same time.
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- **Course kits** - lowest-cost, self-paced training that you can use as reference guides.
- **Training memberships** and training credits - to buy now and schedule training later.

Visit ni.com/training for more information.

Extended Warranty

NI offers options for extending the standard product warranty to meet the life-cycle requirements of your project. In addition, because NI understands that your requirements may change, the extended warranty is flexible in length and easily renewed. For more information, visit ni.com/warranty.

OEM

NI offers design-in consulting and product integration assistance if you need NI products for OEM applications. For information about special pricing and services for OEM customers, visit ni.com/oem.

Alliance

Our Professional Services Team is comprised of NI applications engineers, NI Consulting Services, and a worldwide National Instruments Alliance Partner program of more than 700 independent consultants and integrators. Services range from start-up assistance to turnkey system integration. Visit ni.com/alliance.

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Detailed Specifications

This topic lists the electrical, mechanical, and environmental specifications of the NI PXI-8110 embedded computer.

Features

NI PXI-8110	
CPU	Intel® Core™ 2 Quad processor Q9100 (2.26 GHz quad core processor), 1066 MHz FSB
On-die L2 cache	12 MB;

NI PXI-8110	
	6 MB shared between cores 0 and 1 6 MB shared between cores 2 and 3
Single-Channel DDR2 RAM, PC2 6400	2 GB Standard, 4 GB Maximum
Hard Drive	120 GB 7200 RPM Serial ATA, minimum; 80 GB (or greater) SATA Ext Temp, 24/7, optional
Ethernet	10/100/1000 BaseTX
GPIO (IEEE 488 Controller)	Yes
Serial Ports (RS-232)	Yes (1)
Parallel Port	Yes (1)
Hi-Speed USB (2.0) Ports	Yes (4)
ExpressCard/34 Slot	Yes
PS/2 Keyboard/Mouse Connector	No
PXI Trigger Bus Input/Output	Yes
Installed Operating System	Windows Vista Business; Windows Vista Business downgraded to Windows XP Professional

Electrical

Voltage (V)	Current (A)	
	Typical	Maximum
+3.3	2 A	3 A
+5 (+5 V _{DC} and +5 V _{I/O}) ¹	9 A	12 A
+12	.1 A	.3 A
-12	0 A	0 A

Physical

Board dimensions	PXI 3U-size module 8.1 cm × 13 cm × 21.6 cm (3.2 in. × 5.1 in. × 8.5 in.)
Slot requirements	One system slot plus three controller expansion slots
Compatibility	Fully compatible with PXI specification
Weight	0.914 kg (2.02 lb) typical

Environment

Maximum altitude	2,000 m (at 25 °C ambient temperature)
Pollution Degree	2
Indoor use only.	

Operating Environment

Ambient temperature ²	
Base	5 to 50 °C ³ (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Extended temperature	0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Relative humidity	10% to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)



Caution Clean the NI PXI-8110 with a soft nonmetallic brush. Make sure that the device is completely dry and free from contaminants before powering-on the controller again.

Storage Environment

Ambient temperature	
Base	-40 to 65 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Extended temperature	-40 to 70 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
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.)
Random vibration	
Operating	5 to 500 Hz, 0.3 g _{rms} (with solid-state hard drive)
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 Specifications are subject to change without notice.

Safety Standards

This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA 61010-1



Note For UL and other safety certifications, refer to the product label or the *Online Product Certification* section.

Electromagnetic Compatibility

This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 61326 (IEC 61326): Class A emissions; Basic immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- AS/NZS CISPR 11: Group 1, Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-001: Class A emissions



Note For the standards applied to assess the EMC of this product, refer to the *Online Product Certification* section.



Note For EMC compliance, operate this device with shielded cables.

CE Compliance

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)

Online Product Certification

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for this product, visit ni.com/certification, search by module number or product line, and click the appropriate link in the Certification column.

Environmental Management

National Instruments is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial not only to the environment but also to NI customers.

For additional environmental information, refer to the *NI and the Environment* Web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

Waste Electrical and Electronic Equipment (WEEE)



EU Customers At the end of the product life cycle, all products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers, National Instruments WEEE initiatives, and compliance with WEEE Directive 2002/96/EC on Waste Electrical and Electronic Equipment, visit ni.com/environment/weee.htm.

电子信息产品污染控制管理办法（中国 RoHS）



中国客户 National Instruments 符合中国电子信息产品中限制使用某些有害物质指令 (RoHS)。关于 National Instruments 中国 RoHS 合规性信息，请登录 ni.com/environment/rohs_china。(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

Battery Replacement and Disposal



Battery Directive This device contains a long-life coin cell battery. If you need to replace it, use the Return Material Authorization (RMA) process or contact an authorized National Instruments service representative. For more information about compliance with the EU Battery Directive 2006/66/EC about Batteries and Accumulators and Waste Batteries and Accumulators, visit ni.com/environment/batterydirective.

¹ Does not include any attached USB devices or ExpressCard. Refer to the *Power Budgeting* section of the *Installation and Configuration* chapter in the *NI PXI-8110 User Manual*.

² For chassis that are not available in the online catalog at ni.com, contact National Instruments for supported operating temperatures.

³ 5 to 40 °C for the PXI-1000B DC.

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