



PXLe-8880 Safety, Environmental, and Regulatory Information



PXle-8880 Safety, Environmental, and Regulatory Information 2.3 GHz Eight-Core PXI Express Controller

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1 Safety, Environmental, and Regulatory Information

Read this document before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards. Visit ni.com/manuals for more information about your product, including specifications, pinouts, and instructions for connecting, installing, and configuring your system.

1.1 Icons

	Notice Take precautions to avoid data loss, loss of signal integrity, degradation of performance, or damage to the product.
	Caution Take precautions to avoid injury. Consult the product documentation for cautionary statements when you see this icon printed on the product. Cautionary statements are localized into French for compliance with Canadian requirements.

1.2 Safety Guidelines



CAUTION

Observe all instructions and cautions in the user documentation. Using the product in a manner not specified can damage the product and compromise the built-in safety protection.

ATTENTION

Suivez toutes les instructions et respectez toutes les mises en garde de la documentation d'utilisation. L'utilisation du produit de toute autre façon que celle spécifiée risque de l'endommager et de compromettre la protection de sécurité intégrée.



HOT SURFACE

If the product has been in use, it may exceed safe handling temperatures and cause burns. Allow the product to cool before handling.

SURFACE CHAUDE

Si le produit a été utilisé, il peut avoir atteint des températures trop élevées pour être manipulé en toute sécurité, ce qui peut provoquer des brûlures. Laissez le produit refroidir avant de le manipuler.



HAZARDOUS VOLTAGE

The product is designed for nonhazardous, live signals. You must ensure that all signals connected to the product are isolated from hazardous, live circuits and no unsafe voltages are present at the inputs. Voltages that exceed the specifications could result in damage to the product or electric shock.

TENSION DANGEREUSE

Le produit est conçu pour les signaux en direct non dangereux. Vous devez vous assurer que tous les signaux connectés au produit sont isolés des circuits dangereux sous tension et qu'aucune tension dangereuse n'est présente aux entrées. Des tensions supérieures à celles mentionnées dans les spécifications peuvent endommager le produit ou provoquer un choc électrique.

1.3 Power Requirements

Voltage (V)	Current (Amps) Typical	Current (Amps) Maximum
+3.3 V	2.24 A	2.96 A
+5 V	2.44 A	3.11 A
+12 V	6.5 A	8.7 A
5 V _{AUX}	0.19 A	0.23 A

CMOS battery type

3 V lithium Panasonic BR2032

1.4 Physical

Board dimensions	Four-wide 3U PXI Express module
Slot requirements	One system slot plus three controller expansion slots
Compatibility	Fully compatible with <i>PXI Express Specification 1.0</i>
Weight	1.5 kg (3.4 lb) typical

1.5 Environmental

Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient temperature) with chassis fans on High .
Pollution Degree	2

Indoor use only.

1.5.1 Operating Environment



NOTICE

The operating temperature must not be exceeded, even when used in a chassis with a higher temperature range.

Ambient temperature range	0 °C to 50 °C (See notes below.) (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Relative humidity range	10% to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)



NOTICE

Processor should not throttle CPU frequency under reasonable, worst case processor work loads at high operating temperatures. If you experience CPU frequency variation, turn your chassis fans on **High**, using the fan speed selector switch on the rear of your chassis.



NOTICE

0 °C to 45 °C when used with the PXIe-1071, PXIe-1078 (with kit part number 158034A-01), or PXIe-1086 chassis.

1.5.2 Storage Environment

Ambient temperature range	
Standard	-40 °C to 71 °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.)

1.6 Maintenance

Clean the PXIe-8880 with a soft nonmetallic brush. Make sure that the device is completely dry and free from contaminants before returning it to service.

1.7 Safety Compliance Standards

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

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1



NOTICE

For UL and other safety certifications, refer to the product label or the [Product Certifications and Declarations](#) section.

1.7.1 Electromagnetic Compatibility Standards

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

- EN 61326-1 (IEC 61326-1): Class A emissions; Basic immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- AS/NZS CISPR 11: Group 1, Class A emissions
- AS/NZS CISPR 22: Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-001: Class A emissions



NOTICE

In the United States (per FCC 47 CFR), Class A equipment is intended for use in commercial, light-industrial, and heavy-industrial locations. In Europe, Canada, Australia and New Zealand (per CISPR 11) Class A equipment is intended for use only in heavy-industrial locations.

**NOTICE**

Group 1 equipment (per CISPR 11) is any industrial, scientific, or medical equipment that does not intentionally generate radio frequency energy for the treatment of material or inspection/analysis purposes.

**NOTICE**

For EMC declarations and certifications, and additional information, refer to the [Product Certifications and Declarations](#) section.

1.7.2 Product Certifications and Declarations

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for NI products, visit ni.com/product-certifications, search by model number, and click the appropriate link.

1.7.3 Environmental Management

NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the *Engineering a Healthy Planet* 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.

1.7.3.1 EU and UK Customers



Waste Electrical and Electronic Equipment (WEEE) —At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit ni.com/environment/weee.

1.7.3.2 Battery Recycling

Products containing lithium must be disposed of or recycled in accordance with all local laws and site regulations. For more information about disposing of or recycling this product's battery, refer to the product documentation on ni.com/manuals. 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.

1.7.3.3 Battery Replacement and Disposal



Battery Directive —This product contains a long-life coin cell battery. If you need to replace it, use the Return Material Authorization (RMA) process or contact an authorized NI 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.

1.7.3.4 电子信息产品污染控制管理办法(中国 RoHS)



中国 RoHS — NI 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 NI 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.)

1.8 Additional Resources

Visit ni.com/manuals for more information about your device, including specifications, pinouts, and instructions for connecting, installing, and configuring your system.

1.9 NI Services

Visit ni.com/support to find support resources including documentation, downloads, and troubleshooting and application development self-help such as tutorials and examples.

Visit ni.com/services to learn about NI service offerings such as calibration options, repair, and replacement.

Visit ni.com/register to register your NI product. Product registration facilitates technical support and ensures that you receive important information updates from NI.

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