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PXIe-8822

PXIE-8822/42/62 Safety, Environmental, and Regulatory Information

PXIe-8822/42/62 Safety, Environmental, and Regulatory Information

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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.

Icons

Refer to the following descriptions if one of these icons is marked on your product or used in this guide.

 **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.

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.

**CAUTION**

The product will need to be mounted in suitable Fire and Mechanical end product enclosure; Exercise caution when placing the product inside an enclosure. Auxiliary cooling may be necessary to keep the product under the maximum ambient temperature rating for the product. Refer to the product specifications for more information about the maximum ambient temperature rating.

ATTENTION

Le produit devra être monté dans un boîtier du produit final répondant aux exigences de résistance mécanique et de protection incendie ; faites preuve de prudence lorsque vous placez le produit dans un boîtier. Un système de refroidissement auxiliaire peut être nécessaire pour maintenir le produit en dessous de sa température nominale maximale. Reportez-vous aux spécifications du produit pour obtenir plus d'informations sur la température nominale maximale.

**CAUTION**

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.

ATTENTION

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.

EMC Guidelines

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable protection against harmful interference when the product is operated in its intended operational electromagnetic environment.

This product is intended for use in commercial and light-industrial locations. However, harmful interference may occur in some installations, when the product is connected to a peripheral device or test object, or if the product is used in residential areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by NI could void your authority to operate it under your local regulatory rules.

EMC Notices

Refer to the following notices for cables, accessories, and prevention measures necessary to ensure the specified EMC performance.

**NOTICE**

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

**NOTICE**

Changes or modifications to the product not expressly approved by NI could void your authority to operate the product under your local regulatory rules.

**NOTICE**

Electromagnetic interference can adversely affect 2.5G Ethernet. As a result, this device may experience temporary performance degradation.

**NOTICE**

Operate this product only with shielded cables and accessories.

**NOTICE**

The length of all I/O cables except Ethernet, GPIB, serial, and USB 2.0 cables must be no longer than 3 m (10 ft). The length of GPIB, serial and USB 2.0 cables must be no longer than 30 m (100 ft). The length of Ethernet cables can be longer than 30 m (100 ft).

EMC 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

- ICES-001: Class A emissions

**NOTE**

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

**NOTE**

In Europe, Australia, New Zealand, and Canada (per CISPR 11) Class A equipment is intended for use in non-residential locations.

**CAUTION**

This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

ATTENTION

Cet équipement n'est pas destiné à être utilisé dans des environnements résidentiels et peut ne pas fournir une protection adéquate à la réception radio dans de tels environnements.

Environmental Guidelines

**NOTICE**

Failure to follow the mounting instructions in the product documentation can cause temperature derating.

**NOTICE**

This product is intended for use in indoor applications only.

**NOTICE**

Cover all empty slots using filler panels.

Environmental Characteristics

Temperature

| | |
|-----------|-----------------|
| Operating | 0 °C to 55 °C |
| Storage | -40 °C to 71 °C |

Humidity

| | |
|-----------|---------------------------------|
| Operating | 10% RH to 90% RH, noncondensing |
| Storage | 5% RH to 95% RH, noncondensing |

Pollution Degree 2

Maximum altitude 4600 m (570 mbar) (at 25°C ambient) with chassis fans on high

Shock and Vibration

| | |
|-------------------------|------------------------------|
| Operating vibration | 5 Hz to 500 Hz, 0.3 g RMS |
| Non-operating vibration | 5 Hz to 500 Hz, 2.4 g RMS |
| Operating shock | 30 g, half-sine, 11 ms pulse |

Environmental Standards

This product meets the requirements of the following environmental standards for electrical equipment.

- IEC 60068-2-1 Cold
- IEC 60068-2-2 Dry heat
- IEC 60068-2-78 Damp heat (steady state)
- IEC 60068-2-64 Random operating vibration
- IEC 60068-2-6 Sinusoidal operating vibration
- IEC 60068-2-27 Operating shock

**NOTE**

To verify marine approval certification for a product, refer to the product label or visit ni.com/certification and search for the certificate.

Power Requirements

Power Specifications

**NOTICE**

These specifications do not include any attached devices.

PXIe-8822

| Voltage (V) | Current (Amps) Typical | Current (Amps) Maximum |
|-------------|------------------------|------------------------|
| +3.3 V | 1.2 A | 2.6 A |
| +5 V | 0.5 A | 2.5 A |
| +12 V | 4.5 A | 7 A |
| +5 Vaux | 0.3 A | 0.6 A |

PXIe-8842

| Voltage (V) | Current (Amps) Typical | Current (Amps) Maximum |
|-------------|------------------------|------------------------|
| +3.3 V | 1.2 A | 2.6 A |
| +5 V | 0.9 A | 3 A |
| +12 V | 5.1 A | 7.1 A |
| +5 Vaux | 0.4 A | 0.7 A |

PXIe-8862

| Voltage (V) | Current (Amps) Typical | Current (Amps) Maximum |
|-------------|------------------------|------------------------|
| +3.3 V | 1.4 A | 3.3 A |
| +5 V | 1.2 A | 3 A |
| +12 V | 7.1 A | 8.5 A |
| +5 Vaux | 0.4 A | 0.9 A |

PXIe-8862 with removable drive

| Voltage (V) | Current (Amps) Typical | Current (Amps) Maximum |
|-------------|------------------------|------------------------|
| +3.3 V | 0.7 A | 1.7 A |
| +5 V | 1.2 A | 3 A |
| +12 V | 7.7 A | 8.5 A |
| +5 Vaux | 0.4 A | 0.9 A |

**NOTICE**

Power delivered to external loads through USB and Thunderbolt 3 ports should be included in system power budgets that include this controller module and peripheral modules.

Battery Guidelines

**CAUTION**

Fire, explosion, and severe burn hazard. Do not open, crush, insert improperly, recharge or disassemble the battery. Do not heat the battery or the product above 100 °C. Do not incinerate the battery or the product. Do not expose the battery contents to water. Take precautions to ensure correct polarity of the battery in the product. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

ATTENTION

Risque d'incendie, d'explosion et de brûlures graves. Insérer la pile correctement. Ne pas ouvrir, écraser, recharger ou démonter la pile. Ne pas chauffer la pile ou le produit au-dessus de 100 °C. Ne pas incinérer la pile ou le produit. Éviter tout contact du contenu de la pile avec de l'eau. Prenez des précautions pour vous assurer que la polarité de la batterie dans le produit est correcte. Risque d'explosion si la pile est remplacée par un type de pile incorrect. Éliminer les piles usagées conformément aux instructions.

**CAUTION**

The battery must be replaced by a trained service technician. Refer to the product documentation on ni.com/manuals for instructions for replacing the battery.

ATTENTION

La pile doit être remplacée par un technicien de maintenance qualifié. Reportez-vous à la documentation du produit sur ni.com/manuals pour obtenir les instructions pour changer la pile.

Battery Rating

| | |
|-----------------------|---|
| Manufacturer | Murata |
| Model | CR2032W |
| Cell chemistry system | Lithium Manganese Dioxide (LiMnO ₂) |
| Number of batteries | 1 |

Physical Characteristics

Dimensions and Weight

| | |
|-------------------|--|
| 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 | |
| PXIe-8822 | 728 g (1.60 lb) typical |
| PXIe-8842 | 753 g (1.66 lb) typical |
| PXIe-8862 | 783 g (1.73 lb) typical |

| | |
|--------------------------------|-------------------------|
| PXIe-8862 with removable drive | 906 g (2.00 lb) typical |
|--------------------------------|-------------------------|

Export Compliance

This product is subject to control under the U.S. Export Administration Regulations (15 CFR Part 730 et. seq.) administered by the U.S. Department of Commerce's Bureau of Industry and Security (BIS) (www.bis.doc.gov) and other applicable U.S. export control laws and sanctions regulations. This product may also be subject to additional license requirements of other countries' regulations.

Additionally, this product may also require export licensing before being returned to NI. The issuance of a Return Material Authorization (RMA) by NI does not constitute export authorization. The user must comply with all applicable export laws prior to exporting or re-exporting this product. See ni.com/legal/export-compliance for more information and to request relevant import classification codes (e.g. HTS), export classification codes (e.g. ECCN), and other import/export data.

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.

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.


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.

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.

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.)

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.

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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