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#### SAFETY, ENVIRONMENTAL, AND REGULATORY INFORMATION

## USRP-2921

## 20 MHz Bandwidth, 2.4 GHz to 2.5 GHz and 4.9 GHz to 5.9 GHz USRP Software Defined Radio Device

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment 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.

## **Regulatory Icons**

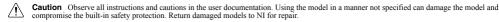
Notice Take precautions to avoid data loss, loss of signal integrity, degradation of performance, or damage to the model.

Caution Take precautions to avoid injury. Consult the model documentation for cautionary statements when you see this icon printed on the model.



ESD Sensitive Take precautions to avoid damaging the model with electrostatic discharge.

## Safety



Attention Suivez toutes les instructions et respectez toutes les mises en garde de la documentation utilisateur. L'utilisation d'un modèle de toute autre façon que celle spécifiée risque de l'endommager et de compromettre la protection de sécurité intégrée. Renvoyez les modèles endommagés à NI pour réparation.



Caution The protection provided by the model can be impaired if it is used in a manner not described in the user documentation.

Attention La protection apportée par le modèle risque d'être endommagée s'il est utilisé d'une autre façon que celle décrite dans la documentation utilisateur.

#### 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

Note For UL and other safety certifications, refer to the product label or the Product Certifications and Declarations section.

## **EMC** Guidelines

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

This product is intended for use in 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 or commercial 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.

#### Electromagnetic and Radio Performance Notices

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





Notice To ensure the specified electromagnetic and radio performance, the length of all I/O cables except the cable connected to the Ethernet port must be no longer than 3 m.

**D** Notice This product is not approved or licensed for transmission over the air using an antenna. As a result, operating this product with an antenna may violate local laws. Ensure that you are in compliance with all local laws before operating this product with an antenna.

**Notice** The performance of this product can be disrupted if subjected to Electrostatic Discharge (ESD) during operation. To prevent damage, industry-standard ESD prevention measures must be employed during installation, maintenance, and operation.

#### 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

FCC 47 CFR Part 15B: Class A emissions

ICES-003: Class A emissions

Note 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.

Note 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.

Note For EMC declarations, certifications, and additional information, refer to the Product Certifications and Declarations section.

#### **Environmental Guidelines**

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Notice This model is intended for use in indoor applications only.

#### **Environmental Characteristics**

Operating Temperature	0 °C to 45 °C
Operating Humidity	10% to 90% relative humidity, noncondensing
Pollution Degree	2
Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient temperature)

#### **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 Commitment to 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 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.

#### 电子信息产品污染控制管理办法(中国 RoHS)

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## **Power Requirements**

Total power, typical operation	
Typical	3 W to 3.5 W
Maximum	4.5 W
Power requirement	Accepts a 6 V, 3 A external DC power connector

Caution You must use either the power supply provided in the shipping kit, or another listed ITE power supply marked LPS, with the device.

Attention Vous devez utiliser avec l'appareil soit l'alimentation livrée dans le kit, soit une autre alimentation ITE (équipement informatique) agréée, portant le symbole LPS.

#### **Physical Characteristics**

Physical dimensions

 $(L \times W \times H)$ Weight 15.875 cm  $\times$  4.826 cm  $\times$  21.209 cm (6.25 in.  $\times$  1.9 in.  $\times$  8.35 in.)

1.193 kg (2.63 lb)

#### Maintenance

If you need to clean your device, wipe it with a dry towel.

# CE Compliance CE

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)
- · 2011/65/EU; Restriction of Hazardous Substances (RoHS)

## **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.

## Additional Resources

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

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