

KRILL

SPORTABLE[®]

SEE THE GAME

USER SAFETY AND COMPLIANCE GUIDE

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1 PRODUCT SAFETY INFORMATION



WARNING: To avoid the risk of suffocation, do not leave small parts such as parts of packaging or any removable items within reach of children.



CAUTION: This product is designed to be used with a USB charger with the following ratings:

- Voltage: 5Vdc
- Power: 2.5W
- Current: 500mA (max)
- Operating temperatures during use: 0°C to 40°C
- Operating temperatures during charging: 0°C to 40°C



CAUTION: This product contains a Lithium-Ion battery and should be handled with care.



CAUTION: Do not dispose of a battery into fire or a hot oven, or by mechanically crushing or carrying of a battery. This may result in an explosion.



CAUTION: Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.



CAUTION: A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.



WARNING: This product emits wireless energy that may interfere with medical devices such as pacemakers, hearing aids, insulin pumps, blood glucose monitors, and smartwatches. Users of these devices must consult their healthcare provider before using this product.



WARNING: Failing to install and use this product as described in this manual may invalidate its CE marking and could possibly compromise the safety of the user. To avoid these hazards please read the following warnings and cautions.

1.1 USER SAFETY INSTRUCTIONS

- Only use the charging lead supplied with the product.
- Use of the charging lead could present a trip or entanglement hazard. Care must be taken when using or routing the USB cable in the vicinity of personnel or other equipment to avoid this.
- When charging ensure the connection is properly made.
- Do not attempt to clean the product while charging.
- The product should only be used, or charged, at ambient temperatures between 0°C and 40°C.
- Avoid exposure to moisture or high humidity during charging.
- Ensure the product is used as intended to avoid unintentional damage.
- Never attempt to dismantle the product. No user serviceable parts are contained.
- Do not attempt to repair the product, instead contact your supplier.
- Do not attempt to remove the internal battery in the product, this must be done professionally.
- Never push anything into holes, slots, or other openings in the casing.
- Do not place the product close to sources of heat, such as a heater or direct sunlight.
- The product is not designed for use at altitudes above 2000m.
- The product is designed to withstand an outside environment but should not be immersed in water.
- Never place naked flame sources on or adjacent to the product.
- To clean, wipe over with a dry or water moistened cloth.

1.2 Compliance Statements

	This equipment complies with the Radio Equipment Directive (RED) 2014/53/EU, by meeting the following directives and standards. 1. Efficient use of radio spectrum: ETSI EN 302 065-2 V2.1.1 (2016-11) 2. Electromagnetic compatibility as set out in Directive 2014/30/EU. EN IEC 61326-1:2021, and ETSI EN 301 489-33 V2.2.1 (2019-04) 3. Safety requirements set out in Directive 2014/35/EU: IEC 62368-1:2023 IEC 62368-3:2017
	<i>This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:</i> 1. <i>This device may not cause harmful interference, and</i> 2. <i>this device must accept any interference received, including interference that may cause undesired operation.</i> <i>Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</i> • <i>Reorient or relocate the receiving antenna.</i> • <i>Increase the separation between the equipment and receiver.</i> • <i>Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</i> • <i>Consult the dealer or an experienced radio/TV technician for help.</i> <i>No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.</i> <i>In line with 47 CFR 15.250, operation of this product on board an aircraft or a satellite is prohibited. It may not be employed for the operation of toys. Except for operation onboard a ship or a terrestrial transportation vehicle, the use of a fixed outdoor infrastructure with this product is prohibited, noting that fixed infrastructure includes antennas mounted on outdoor structures, for example antennas mounted on the outside of a building or on a telephone pole.</i> <i>This equipment complies with FCC radiation exposure limits set forth for an occupational/controlled environment.</i>

IC

RSS-GEN, RSS-210, and RSS-102

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. *This device may not cause interference.*
2. *This device must accept any interference, including interference that may cause undesired operation of the device.*

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. *L'appareil ne doit pas produire de brouillage;*
2. *L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

This equipment is exempt from the routine RF exposure evaluation requirements of RSS-102 for portable use conditions.

Cet équipement est exempté des exigences d'évaluation de l'exposition RF de routine du RSS-102 pour les conditions d'utilisation portable.

In accordance with RSS-210 Annex K: Wideband devices operating in the band 5925-7250 MHz, the following restrictions on use apply :

1. *Devices subject to this annex are not permitted for operation on board aircraft or satellites and shall also not be used for operating toys.*
2. *The use of a fixed outdoor infrastructure, including antennas mounted on outdoor structures such as poles or buildings, is not permitted, except for operation on board ships or land vehicles.*

Conformément à RSS-210 Annex K: Appareils à large bande fonctionnant dans la bande de 5 925 à 7 250 MHz, les utilisations suivantes sont interdites :

1. *Les dispositifs visés par la présente annexe ne peuvent pas être utilisés à bord d'aéronefs ou de satellites ni être utilisés pour faire fonctionner des jouets.*
2. *L'utilisation d'une infrastructure extérieure fixe, y compris d'antennes montées sur des structures extérieures comme des poteaux ou des bâtiments, n'est pas autorisée, sauf si les structures en question sont des bateaux ou des véhicules terrestres.*

	The symbol shown here and, on the product, means that the product is classed as Electrical or Electronic Equipment and should not be disposed with other household or commercial waste at the end of its working life. The Waste of Electrical and Electronic Equipment (WEEE) Directive has been put in place to recycle products using best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid the increasing landfill. Business users should check the terms and conditions of their contract before disposal and ensure that this product is not mixed with other commercial waste for disposal. Contact the supplier in case of doubt.
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1.1 Certification Identifiers

The following IDs will apply to this device:

FCC ID: 2A929-662607

ISED ID: 29950-662607

CE Marking

2 Product Overview

- **Product Description:** KRILL is a UWB-enabled module designed for location tracking in sports applications. It is primarily intended for body-worn applications in both indoor and outdoor locations.
- **Key Features:** KRILL is made up of a sealed plastic enclosure containing a PCB assembly and a Lithium-Ion battery. The enclosure cannot be opened and contains no user accessible or serviceable parts. Other than a magnetic POGO-USB charging socket, there are no ports for removable or permanent wiring.
- **Product Operation:** The KRILL device functions as a client within a larger system. It requires communication with a LYNX MASTER before activating. The LYNX MASTER acts as the central control unit. Additionally, the KRILL device can interact with LYNX ANCHOR repeaters, which extend the operational range and ensure consistent communication within the system.

3 Charging

- Only use a standard USB-A power source with 5V DC, 500mA. Do not use high-power or fast chargers.
- Connect the magnetic POGO connector to KRILL. Take care as the connector will only fit correctly in one orientation (see below, device shown for illustration only).
- Do not charge the device in enclosed spaces (e.g., under blankets or inside bags) as this may cause overheating. If the device becomes unusually hot while charging or in use, immediately disconnect it from the power source and discontinue use. Contact the supplier if overheating persists.



4 Product Operation

- **Power On KRILL**

- The device powers on automatically when connected to a power source.
- Alternatively, if the device is already charged, press the power button 
- The  and  LEDs will come on to indicate the KRILL device is functional and ready to use.
- Disconnect the USB-POGO cable from the KRILL, and the KRILL device will remain powered on during entire battery life of the device.

- **Power Off KRILL**

- Quickly press the power button  twice in succession and then hold this button until both  and  LEDs turn off.

- **Power LED functions**

- a. The power LED  on the KRILL device provides visual feedback for power management and has the following states:
- b. LED OFF: While connected to the charger, the battery is fully charged, and no charging activity is occurring.
- c. LED ON (Constant Red): The device is actively charging. Ensure that the POGO charge cable is securely connected to the KRILL device and the USB Type A power source.
- d. LED Flashing Slowly (every 1.5 seconds): Charging has been temporarily suspended. Check the power source and cable connection then disconnect and reconnect the USB POGO connector. If this issue persists, do not use the device and contact the supplier.
- e. LED Flashing Rapidly: Indicates a power fault, either with the charger or the KRILL device. Disconnect the power source and inspect the setup before reconnecting.

- **Sniff Mode**

- a. When the KRILL is charging, the power LED  remains constantly red, and the network LED  occasionally flashes. This indicates the device is in SNIFF mode, actively seeking a MASTER to join a UWB network.

5 Device Maintenance

- **Cleaning:** Wipe the device gently with a soft cloth, if necessary, this may be dampened with water. Do not use liquid cleaners or submerge the device in water.
- **Inspection:** Regularly inspect the device for physical damage or loose components.
- **Storage:** Store the device in a dry, cool location when not in use.

6 Safe Disposal of the Lithium-Ion Battery

Dispose of this product at a designated e-waste/WEEE recycling centre. Do not discard with household waste, as improper disposal may cause environmental harm or violate local regulations. Contact your supplier for approved disposal options. For further information on electronic waste disposal, check with local authorities or visit certified e-waste/WEEE recycling facilities.

7 Storage & Transport Warnings

Store the device in a cool, dry place away from direct sunlight. For air travel, follow airline regulations—do not place the device in checked baggage and do not operate inside the aircraft as it potential to interfere with the aircraft.