

Blue PUCK FAMILY

Ref. IDF26XXX

-  Very long range: up to **500 meters** (open field)
-  High lifecycle: up to **16 years**
-  Robust industrial casing - **IP69k waterproof**
-  Integrated **NFC** chipset

TECHNICAL SPECIFICATIONS

Battery power supply	3.6 VDC - Lithium internal battery
Frequency	2,4 GHz range
Operating mode	- Periodic data transmission - LED indicator light
Power output	Up to +4dBm (programmable)
Transmission range	Up to 500 meters (open field / + 4dBm)
Transmission period	0,1 to 10 second (programmable)
Lifecycle	Up to 18 years (Beacon rate = 10s with +4dBm)
Radio frame format	ID: 15 characters name Unique 48 bits MAC address ID (ELA) compliant
Settings & configuration	Interface/Protocol: NFC Type 2 Device Manager software
Operating temperature	-40°C to +85°C
Battery level management	15% remaining battery warning
Housing	Ø 57mm base - Thickness 20mm IP69k Waterproof - Weight 41g ULTRAFORM (POM C) material
Standards	CE (Europe): EN 300 328/ EN 300 330/ EN 301 489 / EN 50663 & EN 62479 / EN 62368-1 / EN 18031-1 FCC (USA): FCC PART 15 ISED/IC (Canada): RSS-247 / ICES-003 RoHS certified
Accessory	PUCK HOLDER STICKER - 2 mounting Ø 4.5mm holes, spaced of 30mm
FCC ID	RVVBPUCKPF2 (located on the product label)
IC	20429-BPUCKPF2 (located on the product label)

Product commissioning

Remove the product from its packaging.

Check the integrity of the IP69k enclosure (manual page 1).

The product is powered by a non-replaceable 3.6 VDC internal battery (manual page 1).

There is no physical switch: activation and configuration depend on NFC programming.

Sensor mounting

The device must be mounted directly on a flat surface or using the PUCK HOLDER STICKER accessory.
Ensure that the mounting surface does not degrade radio performance.

Initial configuration via NFC

Install the ELA Device Manager software from www.elainnovation.com
(manual page 1).

Place an NFC-compatible smartphone or NFC programmer near the central area of the device.

Open ELA Device Manager.

Read the device via NFC.

Adjust the following parameters if needed:

- transmission period (0.1 s to 10 s)
 - transmission power (up to +4 dBm)
- (all values taken from manual page 1)

Validate the NFC write operation and verify that the parameters have been updated correctly.

Normal operation

The product periodically transmits its Bluetooth frames in “Periodic data transmission mode” (page 1).

The LED indicator shows the transmission active/inactive status (manual page 1).

The maximum open-field range can reach up to 500 m depending on the radio settings used.

Maintenance

When the battery reaches 15% remaining capacity, an internal warning is triggered (page 1).

The battery is not replaceable: when it reaches end of life, replace the entire device.

The IP69k enclosure must not be opened.

 FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

§ 15.21 Information to user

The user manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

RF exposure test exclusion

This equipment complies with FCC RF exposure limits for uncontrolled environments. To maintain compliance, a minimum separation distance of 20 cm must be maintained between the device and the user during normal operation.

 Industry Canada Statement

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This device meets the exemption from the routine evaluation limits in RSS-102. A minimum separation distance of 20 cm must be maintained between the device and the user.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. Le dispositif ne doit pas produire de brouillage préjudiciable, et
2. Ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Cet appareil respecte les critères d'exemption de l'évaluation de routine définis par la norme RSS-102. Une distance minimale de séparation de 20 cm doit être maintenue entre l'appareil et l'utilisateur.