

Badge PRO

DATASHEET

Connected Worker Solution

Revision V2.2

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Features

- Connected Worker safety and contact traceability system.
- Comfortable wearable device.
- Privacy guarantee, only the authorities can have access to trace information.
- Nordic Semiconductor nRF52840 chipset, low power consumption
- Rechargeable internal lithium battery.
- Integrated battery protection.
- 3 configurable buttons.
- 2 RGB LEDs. One for notifications and other for battery status.

Main Specifications

Connectivity	BLE4/5, GPRS, NB-IoT, GPS
Indoor distance accuracy	≈4 m
Battery	700mAh rechargeable battery
Charging interface	Built-in USB C charger
Working temperature	-40°C - 70°C
Size	90 x 60 x 12 mm
Weight	72g
IP rating	IP67

Positioning

Indoor distance measurement range	≈40 m
Indoor distance precision	≈4 m
Protocol security	Own secure protocol

Sensors

Accelerometer	Motion detection, shock detection, auto-shutdown
Pressure	Height detection, indoor height location, under/over pressure alarm
Temperature	Under/over temperature alarm
Battery sensor	Low battery level alarm, Charge finished alarm

Power

Input power connector	USB C
Input voltage range	5V DC with over-voltage protection
Battery	Lithium rechargeable battery
Battery capacity	700 mAh
Full charge time	3-4 hours

Enclosure

Material	Main body: PC+ABS Buttons, caps & gaskets : TPU
Size	90 x 60 x 12 mm
Weight	72g
Working temperature	-40°C - 70°C
IP rating	IP67

Connectivity

Bluetooth

Frequency	2.4GHz
Antenna	Omnidirectional
BLE version	BLE 4.0 / BLE5.0
Indoor distance measurement range	<40 m
Indoor distance accuracy	>4 m (depending on anchor density)

GNSS

Frequency	1559-1606.6MHz
Antenna	Omnidirectional
Compatibility	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS
Outdoor distance accuracy	>3 m

Cellular

GSM Bands	850 / 900 / 1800 / 1900 MHz
LTE Bands	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/ B13/B18/B19/B20/B26/B28 LTE-TDD: B39 (for Cat M1 only)
Antenna	Omnidirectional

NFC

Frequency	13.56MHz
Antenna	34.39mm x 46.10mm



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