



LOC Product Line
LoRaWAN™ /GNSS/Biosensor Wearable Tracker
WearLOC-2



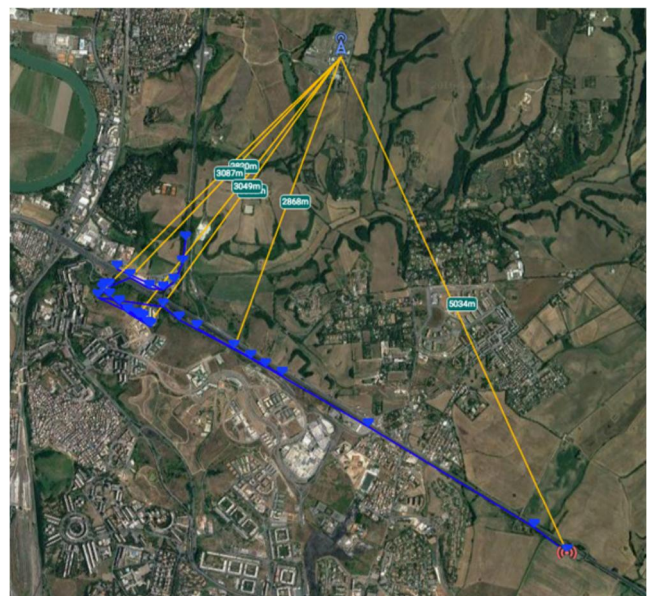
WearLOC-2 is a wearable device for tracking people in outdoor locations where there is no coverage of other mobile or radio communication systems. It is ideally suited to improve safety and security of people, workers and to protect access to sensitive areas.

Its unique combination of sensors allows high precision positioning using GNSS and monitoring people Bio-Activities while outdoor. It has a ManDown sensor, Temperature and Atmospheric pressure monitoring and a Compass. Tracking data is transmitted in real time using LoRaWAN™ low power long range radio (up to 15Km from gateway). A very low power accelerometer detects motion and triggers tracking and transmission. It can be connected to long-range public or private LoRaWAN networks, including ProEsys gateways and Network Server.

WearLoc-2 is also equipped with Bluetooth to interface it with mobile or PCs devices.

Completely waterproof, WearLOC-2 can be recharged by using a simple micro-USB cable.

WearLOC-2 can be supplied with wrist strap, hanging clip or magnetic holder to fix on metallic surfaces.



FEATURES

State of the Art sensor integration

- GNSS for outdoor location
- Bio-Sensor and ManDown detection
- Accelerometer
- Compass
- Information display
- LoRaWAN™ for long range data transmission
- Micro-USB charging
- Totally sealed, waterproof operation.

Easy installation

Wrist strap, hanging clip or magnetic holder

Operation

Outdoor location requires LoRaWAN Gateway access

APPLICATIONS

- Critical Infrastructure monitoring
- People Tracking and Monitoring
- Restricted Area monitoring
- Security and Safety of workers
- Smart Cities

SPECIFICATIONS

Main Control Unit	K64 and STM32™ Cortex®-M0+
Power supply	180mAh LiPo battery
Outdoor Location sensor	Low power GNSS with LNA internal antenna
LoRaWAN™ RF Module	Semtech® chip based
Operational RF Interface	863 -- 870 MHz LoRaWAN™
Supported protocol	LoRaWAN™ 1.0
Max TX Power	+14 dBm ERP over LoRaWAN™
Status indicator	Power, Radio connection, Battery status
Environmental resistance/Operating temperature	IP66 / -30 to + 70 °C
Power On/off	By slide switch
Dimensions/Weight	50 x 50 x 18mm / 0.1 Kg

Specifications subject to change without notice



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