Ultra-Low-Power:
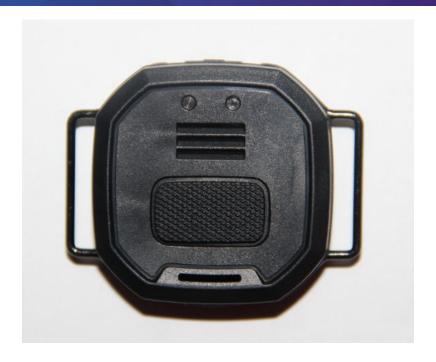
Industry's lowest power consumption in Deep Sleep Mode (62.5 nW) and Rx in Receive Mode (7 mW)

Industry's best EEMBC® ULPMark™ scores (1090 ULPMark CP @ 3 V; 1260 @ 2.1 V)

Ambient Light Sensor

MEMS Microphone

High-accuracy gas, pressure, humidity and temperature sensors

3-axis digital geomagnetic sensor

3-axis gyroscope sensor

3-axis accelerometer sensor

Supports Bluetooth Low Energy and 2.4 GHz proprietary/custom protocols

Rx Sensitivity: -93 dBM

Transmitting Power: -17 to 0 dBm

Restricts Bluetooth access to trustworthy users who presents a real digital identity

Preventing illegal, cloned, faked Bluetooth nodes to be connected the app/cloud

Prevents spoofing , MITM attacks by isolating device keys, identity and crypto operations in a secure enclave

Supports Firmware Over The Air (FOTA)

IP protection feature to secure flash contents

Product Specification

Processor specification

CPU	Arm® Cortex®−M3 Processor
CPU Frequency	48MHz
Internal Storage	384 kB of flash memory
OS	Linux
Connective	BT5.0
FOTA	Suports

Multi-Sensor

Gas Detect	IAQ index 0-500
Humidity	operating Range 0-100
Pressure	operating pressure Range 300-1100 hpa
Temperature	operating temperature Range -40 to +80
3-axis accelerometer	Range: 0-1000
3-axis gyroscope	Range :0-1000
3-axis digital geomagnetic	Range: 0-1000
Microphone	Range :0 to 65535lux
Ambient Light sensor	Range :- 160 to +160db
Other sensor	Customized

Power, Mechanical and Environmental

Dimensions	38*38*11(mm)
Net Weight (g)	15g (including battery)
Temparatur Range	Celsius -20 to +80 C
Waterresistant	IP 65 Water & Dust Protection
Power	CR2032
Compliant	RoHS and Reach compliant