- CE + FCC + IC + FCC + ISED - RTCA DO-160 - RoHS + IP67 certifications

- Nordic Semiconductor nRF52832 System-on-Chip Software Radio

  - ARM® Cortex™-M4F CPU

  - 512kB Flash Memory + 64kB RAM

  - Hardware support on-chip for Bluetooth 5

  - Support for multiple protocols including

    - Bluetooth (default)

    - ANT

    - Wirepas Mesh

    - Other 2.4 GHz proprietary

- STMicroelectronics LIS2DH12 accelerometer

  - 3-axis, ±2 g / ±4 g / ±8 g / ±16 g, 1 Hz - 5.3 kHz

  - Ultra-low power consumption

    - 2 µA @ 1 Hz

    - 6 µA @ 50 Hz

    - 0.5 µA @ Power-down

  - 2 independent programmable interrupt generators for free-fall and motion detection

- Bosch BME280 environmental sensor

  - Ultra-low power consumption

    - 3.6 µA @ 1 Hz humidity + pressure + temperature

    - 0.1 µA in sleep mode

  - Operating range

    - -40 ... +85 °C, 0 ... 100 % rel. humidity, 300 ... 1100 hPa

- Temperature
  - Absolute accuracy ±0.5 °C @ 25 °C, ±1 °C @ 0-25 °C, output resolution 0.01 °C
- Relative humidity
  - Typical accuracy tolerance ±3 %, Hysteresis ±1 %
- Air pressure
  - RMS Noise 0.2 Pa, equiv. to 1.7 cm
  - Offset temperature coefficient ±1.5 Pa/K, equiv. to ±12.6 cm at 1 °C temperature change

- **Embedded NFC™-A tag antenna**

- **1000 mAh CR2477 Li/MnO2 battery (included)**
  - Up to several year battery life (depending the software used)

- **Max operating temperature: -40 ºC to +85 ºC (electronics and enclosure)**
  - Recommended -20 ºC to +70 ºC (above these limits an extended temperature range battery is required, not included)

- **2 buttons**

- **2 LEDs**

- **45 mm diameter (circuit board)**

- **52 mm diameter (enclosure)**

- **Waterproof enclosure (included)**
  - High-quality & long-lasting polycarbonate
  - Gore IP67 certified vent membrane
  - Lubricated industrial-grade O-ring

DIMENSIONAL DRAWINGS

R2

12.55

Ø 52

V
V

A
A

120°

5°

Ø 44.60

2.50

O

C

120°

> PC <

93.6°

ruuvi⊙
Open-Source Sensor Beacon
FCC ID: 2AKDDRUUVITAG
RuuviTag
CE