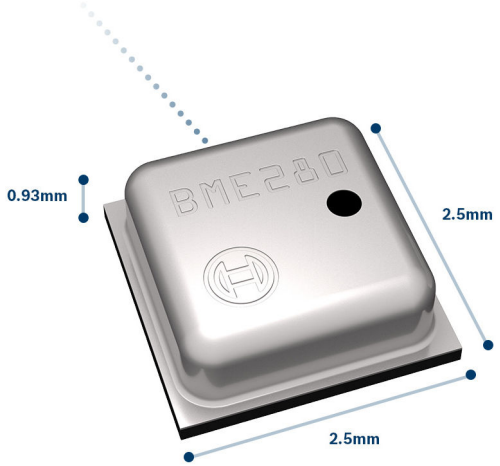
Ruuvitag

- Started as Kickstarter funded project
- Open source (HW & SW)
- Highend sensors
- Supports Eddystone, iBeacon, etc..
- Active community

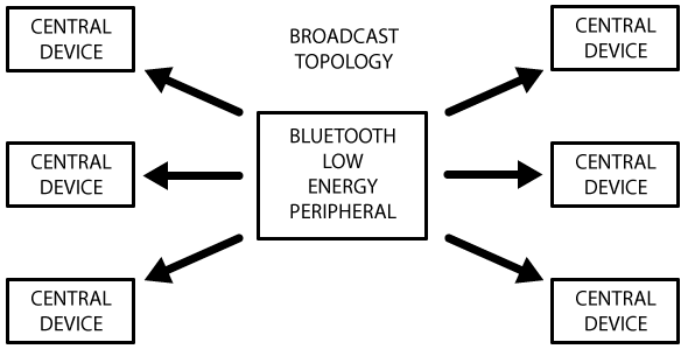
Sensors

- Bosch BME 280
  - Humidity
  - Temperature
  - Air pressure

- STMicroelectronics LIS2DH12
  - ±2g/±4g/±8g/±16g
  - 1 Hz to 5.3 kHz

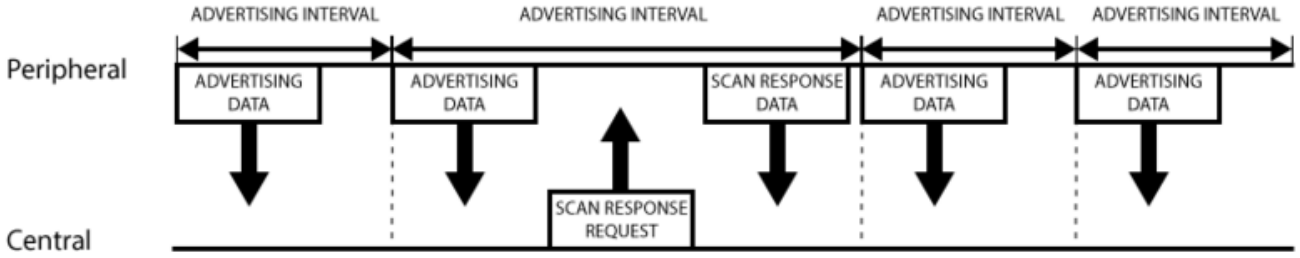


Bluetooth



- Bluetooth 4.0
- Up to 1km range in outdoors
- Walls other obstacles block signals
- Transmission power of Bluetooth radio can be controlled

https://learn.adafruit.com/introduction-to-bluetooth-low-energy/introduction



NFC

- Support NFC-A standard
- Read only mode

Enclosure

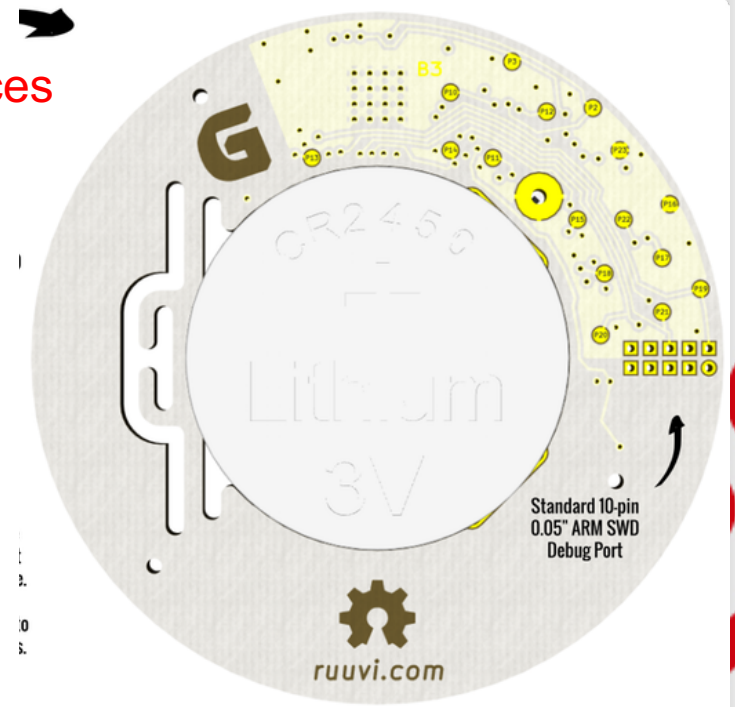
- High-quality polycarbonate
- Shockproof
- CE / FCC / ROHS / IP67 certification

Specifications

- Nordic Semiconductor nRF52832 SoC
- STMicroelectronics LIS2DH12 accelerometer
- Bosch BME 280 temperature + humidity + air pressure
- NFC™-A tag
- 1000mAh CR2477 battery
- -20ºC to +65ºC (max -40ºC to +85ºC)
- 2 buttons
- 2 LEDs
- 52 mm diameter (enclosure)

Extension

- PINs for attaching external devices
- GPIO (I2C/SPI/UART)
- Analog-to-Digital Converter



Programming

- C-language
- JavaScript (Espruino)
- OTA update

https://lab.ruuvi.com/espruino

How to get started:

https://lab.ruuvi.com/

Shop:

https://shop.ruuvi.com/product/ruuvitag/

Forum:

https://f.ruuvi.com/