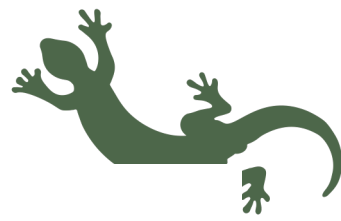


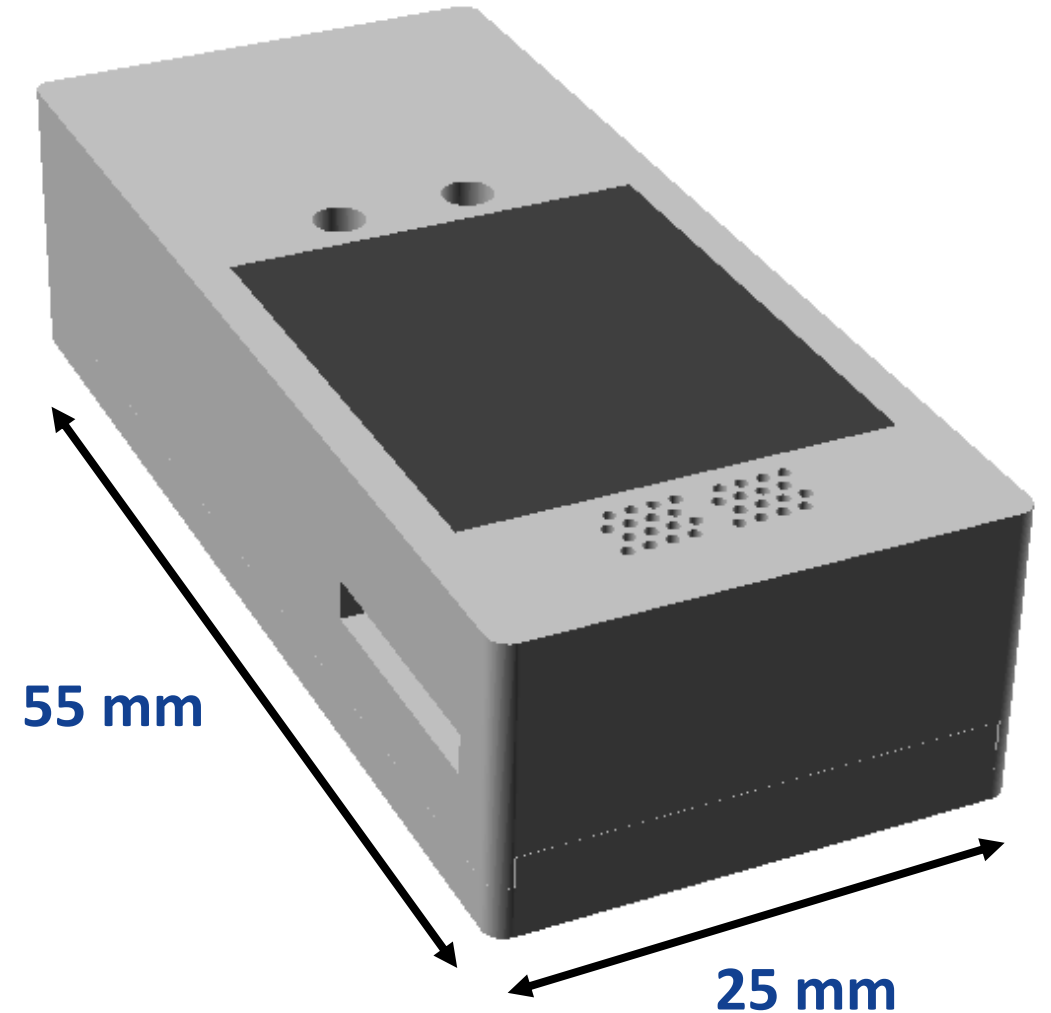
Gecko - Environment / Activity Sensor Module

Features



- Nordic nRF52832 MCU
 - 64MHz ARM® Cortex-M4F
 - 512KB Flash + 64KB RAM
- 6-axis Motion Sensor (Accelerometer and Gyroscope)
- Pressure Sensor
- Temperature Sensor
- Humidity Sensor
- Gas Quality Sensor (Volatile Organic Compounds)
- Colour / Light Sensor
- Microphone
- BLE Communication with gateway / phone.
- SD Card slot
- 500 mAh Li-Ion Battery
- Battery Voltage Monitoring
- Solar Panel to extend battery life (3.0V/30mA)
- USB (5V) Charging
- Wearable or fixed location use.

15 mm



55 mm

25 mm

Gecko - Resources

- Bosch's environmental sensor BME680:
 - <https://www.bosch-sensortec.com/products/environmental-sensors/gas-sensors-bme680/>
- BH1745NUC digital 16-bit serial output type color sensor IC:
 - <https://www.mouser.co.uk/datasheet/2/348/bh1745nuc-e-519994.pdf>
- Nordic UART service:
 - https://developer.nordicsemi.com/nRF_Connect_SDK/doc/latest/nrf/include/bluetooth/services/nus.html