Une image contenant carte

Le contenu généré par l’IA peut être incorrect.

Une image contenant texte, Police, Graphique, capture d’écran

Le contenu généré par l’IA peut être incorrect.

**SENSOR SENSEI IOT**

**Energy Consumption**

**T-IOT-902**

**MSC-2025**

SENSOR FEATURE

# Sound Sensor: SPH0645

## Specifications:

* + **Frequency range**: 100 Hz to 10 kHz.
  + **Sensitivity**: -26 dBFS.
  + **Signal-to-noise ratio (SNR)**: 65 dB.
  + **upply Voltage**: 1.8 V - 3.3 V
  + **Standby Mode**: Negligible
  + **Interface**: PDM (Pulse Density Modulation Delta-Sigma).

## Energy consumption:

* + **Typical Power Consumption**: ~800 µA (0.8 mA)

# Temperature, Pressure, and Altitude Sensor: BMP280

## Specifications:

* + **Pressure measurement range**: 300 hPa to 1100 hPa (equivalent to altitudes between -500 m and +9000 m).
  + **Pressure accuracy**: ±1 hPa.
  + **Temperature measurement range**: -40°C to +85°C.
  + **Temperature accuracy**: ±1°C.
  + **Supply Voltage**: 1.71 V - 3.6 V

## Energy consumption:

* + **Average typical current consumption**: ~3.4 μA
  + **Peak current consumption (High-performance mode)**: ~1.12 mA
  + **Average current consumption (ultra-low power mode)**: ~2.7 µA @ 1 Hz
  + **Average current consumption in sleep mode**: ~0.1 µA

# Air Quality Sensor: Dust Sensor SKU:10500 (Waveshare)

## Specifications:

* + **Measurement range**: 0 to 0.5 mg/m³.
  + **Sensitivity**: 0.5 V / (100 µg/m³).
  + **Supply Voltage**: 2.5 V - 5.5 V
  + **Dimensions**: 63.2 mm x 41.3 mm x 21.1 mm.

## Energy Consumption:

* + **Power Consumption (Active Mode)**: ~20 mA (during the measurement cycle)
  + **Power Consumption (Standby Mode)**: ~0.1 mA