Multisensor IoT Platform for Indoor

The platform has been designed to meet the highest quality standards for low-power sensing and wireless communication. It features 11 built-in sensors, including state-of-the-art CO2 NDIR sensor. A full customization of the device is possible - colors, logo printing, sensor assembly, application behavior, and communication technology. The battery life-span of the platform is up to 3 years.

Features

- Battery operation (3x AA 1.5V)
- Sub-GHz/IQRF low-power radio
- NB-IoT communication (optional)
- LoRa communication (optional)
- Sigfox communication (optional)
- Bluetooth Low Energy (optional)
- Push button with LED backlight (optional)
- Loudspeaker for voice output (optional)
- USB interface (with power support)
- Firmware updates over USB
- Integrated cryptochip
- Dimensions (mm) 145(l) x 88(w) x 33(h)

Applications

- Environmental monitoring
- Smart home
- HVAC systems
- Facility management
- Education
- Development kit for IoT

Communication

Sub-GHz radio/IQRF

Backend

Sigfox

NB-IoT
### Parameter Table

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating supply voltage</td>
<td>3.1</td>
<td>5.5</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Idle current consumption</td>
<td></td>
<td>40</td>
<td></td>
<td>µA</td>
</tr>
<tr>
<td>Operating temperature range w/ CO₂ sensor</td>
<td>0</td>
<td>+50</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Operating temperature range w/o CO₂ sensor</td>
<td>-20</td>
<td>+70</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20</td>
<td>+70</td>
<td></td>
<td>°C</td>
</tr>
<tr>
<td>Operating relative air humidity</td>
<td>0</td>
<td>95</td>
<td></td>
<td>%</td>
</tr>
<tr>
<td>Storage relative air humidity</td>
<td>0</td>
<td>95</td>
<td></td>
<td>%</td>
</tr>
</tbody>
</table>