FUJITSU Component Wireless Modules

Bluetooth® Version 5.0 Beacon
FWM8BLZ07

Overview
A Bluetooth Version 5.0 beacon which can broadcast advertising data with selectable operating modes.

Features
- **Selection of 3 operation modes**
  - Broadcast mode: output advertising data as a broadcaster
  - Peripheral mode: makes bidirectional communication with a central device
  - Recovery mode to reset settings to factory settings
- **OTA configuration mode**
  In Over-The-Air (OTA) configuration mode the beacon unit settings and data can be re-configured by connecting to the central device
- **LED status indicator**
  The Beacon status can be displayed on the LED indicator
- **Long operation life with coin cell battery**
  The Beacon is able to operate for more than 2 years with a CR2450 coin cell battery at 1 second advertise interval

Applications
- Asset and human tracking

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part number</td>
<td>FWM8BLZ07-xxxxxx (xxxxxx: suffix to specify each customer’s settings)</td>
</tr>
<tr>
<td>Type</td>
<td>Beacon</td>
</tr>
<tr>
<td>Antenna</td>
<td>Embedded (pattern antenna)</td>
</tr>
<tr>
<td>Bluetooth technology</td>
<td>Bluetooth core specification Version 5.0 (LE single mode)</td>
</tr>
<tr>
<td>Transmit power</td>
<td>-16, -12, -8, -4, 0, +4 dBm (changeable by command)</td>
</tr>
<tr>
<td>IC</td>
<td>Nordic Semiconductor nRF52832</td>
</tr>
<tr>
<td>Power supply</td>
<td>Coin cell lithium battery CR2450 (not included)</td>
</tr>
<tr>
<td>Operating temperature / humidity</td>
<td>-30°C to +60°C, 20 to 80% RH</td>
</tr>
<tr>
<td>Dimensions / Weight</td>
<td>40 x 31 x 12mm / Approx. 10g (without battery)</td>
</tr>
<tr>
<td>Certifications</td>
<td>Bluetooth Qualification (QDID), Radio Act (Japan), FCC, ISED, CE</td>
</tr>
<tr>
<td>Other</td>
<td>Battery voltage notification function</td>
</tr>
<tr>
<td></td>
<td>Secure advertise function</td>
</tr>
</tbody>
</table>
### Battery specifications

Note: Use of coin type lithium battery CR2450
Please use the battery meets Figure 1 (minus electrode height min. 0.9mm, diameter max. 23 mm) to keep enough clearance between beacon holder and battery.

![Battery specifications diagram](image)

### Dimensions

FWM8BLZ07

- Status indication LED (Red)
- Power supply switch
- Hole for strap or fixing screw
- Battery cover
- Mode switching button (inside of casing)

![Dimensions diagram](image)
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