


TagX LED BLE

Bluetooth Low Energy asset tag

Data sheet



Key features

- Suitable for outdoor and industrial applications
- Based on Nordic nRF52832
- Simultaneous support of iBeacon and Eddystone
- 3-axis accelerometer for motion detection
- IP67 enclosure
- High-visibility LEDs
- Flanges for flexible fastening options
- Powered by replaceable CR2477 lithium battery

| GATT and advertising | |
|---|---|
| Full support for specifications Eddystone Configuration GATT Service by Google | |
| Up to 4 slots configurable for Eddystone frame types: UID, URL, TLM, EID | |
| Up to 4 slots configurable for the following frame types: iBeacon, Quuppa (emulation mode), Sensors | |
| TX power | -40, -20 to 4 dBm (with 4 dB steps). Programmable for each slot |
| Advertising interval | 0.1 to 60 secs. Programmable for each slot |
| Global configuration options | non-connectable mode, anonymous mode, programmable time period, locked/unlocked mode, change password |
| Firmware update | OTA (Over-the-Air) firmware update |

| Device specifications | |
|----------------------------|---|
| Electrical specifications | |
| Core module | Nordic nRF52832 SoC (MCU and radio transceiver) |
| MCU core | ARM Cortex-M4 32-bit CPU |
| Current consumption (25°C) | Radio TX: 7.1 mA (0 dBm TX) Radio RX: 6.5 mA Idle mode: 3 µA Idle mode with accelerometer ON: 7 µA |
| Radio specifications | |
| Standard | Bluetooth 4.2 Bluetooth Low Energy (compatible with BLE 5.x) |
| Frequency band | 2.402 to 2.480 GHz (according to Bluetooth 4.0 specifications) |
| Advertising channels | CH37 (2.402 GHz), CH38 (2.426 GHz), CH39 (2.480 GHz) (according to Bluetooth 4.0 specifications) |



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| Radio specifications (cont.) | |
|-------------------------------------|---|
| Channel spacing | 2 MHz (according to Bluetooth 4.0 specifications) |
| TX power | Conducted: +4 dBm (max) EIRP (Equivalent Isotropic Radiated Power): +6 dBm (max) |
| Antenna | |
| Type | Integrated meandered planar inverted F-antenna (PIFA) |
| Gain | 2 dB (max) |
| Radiation diagram | Omnidirectional |
| Power | |
| Power supply | Battery |
| Replaceable | Yes |
| Type | CR2477 (3V, lithium) |
| Model | Panasonic Industrial CR2477 (typical capacity 1000 mAh @ 25°C) |
| Sensors and interfaces | |
| Sensors | 3-axis MEMS linear accelerometer |
| Interfaces | 2x LEDs (yellow, red) |
| Mechanical specifications | |
| Material | ABS plastic |
| Color | White |
| Size | 77 x 46 x 16 mm (including flanges) |
| Weight | 27 gr |
| Fastening | Screws (max. M3.5), cable-ties |
| Opening | Back lid with four screws |
| Protection | IP67/NEMA6 |
| Flammability | UL 94 HB |
| Environmental specifications | |
| Operating temperature | -20°C to +60°C (battery operating life sharply decreases under 0°C) |
| Storage temperature | +10°C to +30°C (with battery), -40°C to +85°C (without battery) |
| Certifications | |
| CE | |

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