



Tag Slim Wirepas

Wirepas Mesh 2.4GHz asset tag

Data sheet



 **Wirepas**

Key features

- Suitable for asset identification and location
- Based on Nordic nRF52832
- Firmware based on Wirepas libraries
- 3-axis accelerometer for motion detection
- Splash-proof case with flexible fastening options
- Optional version with button and LEDs
- Powered by 2x replaceable CR2032 batteries

| Wirepas Specifications | |
|---|--|
| Based on Wirepas Mesh 2.4GHz stack v5.x | |
| Available applications: Wirepas PosApp, BlueUp PosApp | |
| Wirepas PosApp | |
| Configuration and diagnostics | WNT (Wirepas Network Tool) |
| Operating modes | Opportunistic anchor, NRLS tag, Autoscan tag, DA tag |
| BLE beaconing | iBeacon, Eddystone UID, Eddystone URL (fixed packet) |
| BlueUp PosApp | |
| Configuration and diagnostics | WNT (Wirepas Network Tool) / BlueUp MeshCube |
| Operating modes | NRLS tag, Autoscan tag (configurable for each state) |
| Tag states | Default, Motion, Alarm, Sleep |
| Positioning interval and timeout | 15 secs to 18 hours (configurable for each state) |
| BLE beaconing | iBeacon, Eddystone UID, Quuppa Emulation (configurable for each state) |

| 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 | Wirepas Mesh 2.4GHz (stack v5.x) | |
| Frequency band | 2.402 to 2.480 GHz | |
| Channel spacing | 2 MHz | |
| BLE beaconing channels | CH37 (2.402 GHz), CH38 (2.426 GHz), CH39 (2.480 GHz) | |
| 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 | 2x CR2032 (3V, lithium) | |
| Model | Panasonic CR2032 or equivalent (typical capacity 440 mAh @ 25°C) | |
| Sensors and interfaces | | |
| Version | STD | BUT |
| Sensors | 3-axis MEMS linear accelerometer | 3-axis MEMS linear accelerometer Button |
| Interfaces | - | 2x LEDs |
| Mechanical specifications | | |
| Material | ABS plastic | |
| Color | White | |
| Size | 67 x 33 x 9 mm | |
| Weight | 18 gr | |
| Fastening | 4 holes for max. M3.5 screws or cable-ties | |
| Opening | 4 screws | |
| Protection | IP54 | |
| 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, FCC | | |

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