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Tag Slim BLE

Bluetooth Low Energy asset tag

Data sheet

Works with Apple iBeacon Eddystone

Key features

- **Suitable for asset identification and location**
- **Based on Nordic nRF52832**
- **Simultaneous support of iBeacon and Eddystone**
- **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**

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)
Channel spacing	2 MHz (according to Bluetooth 4.0 specifications)
TX power	Conducted: +4 dBm (max) EIRP (Equivalent Isotropic Radiated Power): +6 dBm (max)

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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 CR20232 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 -10°C)	
Storage temperature	+10°C to +30°C (with battery), -40°C to +85°C (without battery)	
Certifications		
CE (RED), EN60601-1-2 (EMC for medical equipment) FCC		

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