

Bluetooth Wearable Tag

BADGE-HOLDER BLE



GATT AND ADVERTISING

Full support for specifications Eddystone Configuration GATT Service by Google

Up to 4 slots configurable for Eddy frame types: UID, URL, TLM, EID

Up to 4 slots configurable for the following frame types: iBeacon, Quappa (emulation mode), Sensors

TX Power	-40, -20 to 4dBm (with 4 dB steps). Programmable time period
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

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 Specification)
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)

FEATURES

- Suitable for people or asset location
- Based on Nordic nRF52832
- Simultaneous support of iBeacon and Eddystone
- 3-axis accelerometer for motion detection
- Call Button
- Holder for ISO/ IEC 7810 cards, with IP67 rating
- Powered by thin lithium battery



TECHNICAL DATA

ANTENNA

Type	Integrated meandered planar inverted F-antenna (PIFA)
Gain	2 dB (max)
Radiation Diagram	Omnidirectional

POWER

Power Supply	Battery
Replaceable	No
Type	1x CP224147 (3V, lithium)
Model	HCB CP224147 (typical capacity 800 mAh @ 25°C)

SENSORS AND INTERFACES

Sensors	Button, 3-axis MEMS Linear accelerometer
Interfaces	2 LEDs (yellow, green)

MECHANICAL SPECIFICATIONS

Material	ABS Plastic
Color	White
Size	95.0 x 64.0 x 7.0mm
Host ID Card	ISO7810 ID-1 (85,6 x 54 x .0.76mm)
Weight	24 g
Fastening	Two Eyelets for Lanyard (either horizontal or vertical orientation)
Opening	Ultrasonic welded
Protection	IP67 / NEMA6
Flammability	UL 94 HB

APPLICABLE STANDARDS

Operating Temperature	-20°C up to +60°C (Battery Operating Life Sharply decreases under -10°C)
Storage Temperature	10°C up to +35°C

CERTIFICATIONS

CE, FCC

ORDER CODES

VERSIONEN	ORDER CODES
Badge-Holder BLE	IOT-BT-BL-PE-5402