

Badge-Holder Quuppa

Quuppa Intelligent Locating System® wearable tag

Data sheet



Key features

- Suitable for people location and tracking
- Based on Nordic nRF52832
- Firmware based on Quuppa libraries
- 3-axis accelerometer for motion detection
- Call button
- Holder for ISO/IEC 7810 cards, with IP67 rating
- Powered by thin lithium battery



Quuppa Specifications

Quuppa Approved: based on Quuppa libraries and certified by Quuppa	
Full support of Quuppa Intelligent Locating System® functionalities: BLE and proprietary channels, back-channel communication, profile configuration, OTA FW update	
Configuration and diagnostics	QSP (Quuppa Site Planner), QPE (Quuppa Positioning Engine)
Advertising interval	0.1 to 10 secs (BLE channel) 0.01 to 10 secs (Quuppa proprietary channel)
Advertising channels	BLE (CH37 – 2.402 GHz) or Quuppa proprietary
Quuppa ID	MAC address or custom ID
Custom features	Advanced motion detection (intensity/duration, shock, free-fall, man-down) Advanced button management (single/double click, long-press) Back-channels commands for configuration and trigger notification

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	Quuppa Intelligent Locating System®
Frequency band	2.401 to 2.481 GHz (Bluetooth LE 4.0 + Quuppa proprietary channels)
Channel spacing	2 MHz
TX power	-40, -20 to 4 dBm (with 4 dB steps)
RX sensitivity	-94 dBm



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 x 64 x 7 mm
Host ID card	ISO7810 ID-1 (85,6 x 54 x 0.76 mm)
Weight	24 gr
Fastening	Two eyelets for lanyard (either horizontal or vertical orientation)
Opening	Ultrasonic welded
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
Certifications	
CE, FCC	

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