

MicroTag Quuppa

Quuppa Intelligent Locating System® compact asset tag

Data sheet



Quuppa

Key features

- Suitable for small asset location and tracking
- Based on Nordic nRF52832
- Firmware based on Quuppa libraries
- Compact size with reduced thickness
- Hole for fastening
- 3-axis accelerometer for motion detection
- Powered by one replaceable CR2032 coin battery

Quuppa Specifications

Quuppa Compatible: based on Quuppa libraries

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



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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	1x CR2032 (3V, lithium)
Model	Panasonic CR2032 or equivalent (typical capacity 220 mAh @ 25°C)
Sensors and interfaces	
Sensors	3-axis MEMS linear accelerometer
Interfaces	1x LED (blue)
Mechanical specifications	
Material	ABS plastic
Color	White
Size	36 x 23 x 5 mm
Weight	6.5 gr
Fastening	1 hole screw or cable-tie, dual-sided adhesive
Opening	snap-fit
IP rating	-
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)

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