

SafeX Plus Quuppa

Quuppa Intelligent Locating System® wearable tag with alarm button

Data sheet



Key features

- Suitable for people tracking and safety
- Based on Nordic nRF52832
- Firmware based on Quuppa libraries
- 3-axis accelerometer for motion detection
- Button, 2x LEDs, vibration, buzzer
- IP65 case with eyelet for lanyard
- Powered by rechargeable lithium 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	No
Rechargeable	Yes (through 5V USB-C port)
Type	3.7V lithium polymer (typical capacity 540 mAh @ 25°C)
Sensors and interfaces	
Sensors	3-axis MEMS linear accelerometer 2x buttons (alarm button, on/off button)
Interfaces	1x RGB LED, buzzer, vibration
Mechanical specifications	
Material	Case: ABS-PC Button, gasket: TPU
Color	White
Size	73 x 40.5 x 17 mm
Weight	37 gr
Fastening	Eyelet for lanyard
Protection	IP65
Flammability	UL 94 HB
Environmental specifications	
Operating temperature	0°C to +40°C
Storage temperature	+10°C to +30°C
Certifications	
CE (RED)	

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