

## SafeX Lite 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, with optional vibration and buzzer
- Eyelet for lanyard or clip
- Powered by replaceable CR2477 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



<b>Antenna</b>		
Type	Integrated meandered planar inverted F-antenna (PIFA)	
Gain	2 dB (max)	
Radiation diagram	Omnidirectional	
<b>Power</b>		
Power supply	Battery	
Replaceable	Yes	
Type	CR2477 (3V, lithium)	
Model	Panasonic Industrial CR2477 (typical capacity 1000 mAh @ 25°C)	
<b>Sensors and interfaces</b>		
Version	Base	Standard
Sensors	3-axis MEMS linear accelerometer, alarm button	
Interfaces	2x LEDs (yellow, red)	2x LEDs (yellow, red), buzzer, vibration
<b>Mechanical specifications</b>		
Material	ABS plastic	
Color	White	
Size	55 x 45 x 16 mm (case-body only) 64 x 45 x 16 mm (including flange with eyelet)	
Weight	23 gr	
Fastening	Eyelet for lanyard or clip	
Opening	Back lid with four M2.5 screws	
Protection	-	
Flammability	UL 94 HB	
<b>Environmental specifications</b>		
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)	
<b>Certifications</b>		
CE		

BlueUp reserves the right to change product specifications at any time without prior notice.  
 Quuppa and Quuppa Intelligent Locating System are trademarks of Quuppa Oy,  
 Bluetooth is a trademark of Bluetooth SIG, ARM and Cortex are trademarks of ARM Inc.