

Loc. Belvedere, Ingresso 2, 53034 Colle di Val d'Elsa (SI) - ITALY Tel. +39 0577 043101 / +39 344 2030929, Fax +39 0577 043101 E-mail: info@blueupbeacons.com, Web: www. blueupbeacons.com P.IVA/CF/N. iscr. CCIAA (SI). 01373980521, VAT n.: IT01373980521

SafeX Watch BLE

Bluetooth Low Energy tag for wriststrap with alarm button Data sheet



Key features

- · Suitable for people tracking and safety
- Based on Nordic nRF52832
- Simultaneous support of iBeacon and Eddystone
- 3-axis accelerometer for motion detection
- Duress button, 2x LEDs, vibration, buzzer
- IP65 case with flanges for wriststrap
- Powered by replaceable CR2477 lithium battery

GATT and advertising			
Full support for specifications Eddystone Configuration GATT Service by Google			
Up to 4 slots configurable for Eddystone frame types: UID, URL, TLM, EID			
Up to 4 slots configurable for the following frame types: iBeacon, Quuppa (emulation mode), Safety			
TX power	-40, -20 to 4 dBm (with 4 dB steps). Programmable for each slot		
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		

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	Bluetooth 4.2 Bluetooth Low Energy (compatible with BLE 5.x)		
Frequency band	2.402 to 2.480 GHz (according to Bluetooth 4.0 specifications)		
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)		





Loc. Belvedere, Ingresso 2, 53034 Colle di Val d'Elsa (SI) - ITALY Tel. +39 0577 043101 / +39 344 2030929, Fax +39 0577 043101 E-mail: info@blueupbeacons.com, Web: www. blueupbeacons.com P.IVA/CF/N. iscr. CCIAA (SI). 01373980521, VAT n.: IT01373980521

Antenna				
Туре	Integrated meandered planar inverted F-antenna (PIFA)			
Gain	2 dB (max)			
Radiation diagram	Omnidirectional			
Power				
Power supply	Battery			
Replaceable	Yes			
Туре	CR2477 (3V, lithium)			
Model	Panasonic Industrial CR2477 (typical capacity 1000 mAh @ 25°C)			
Sensors and interfaces				
Version	BASE	STANDARD		
Sensors	3-axis MEMS linear accelerometer, alarm button			
Interfaces	2x LEDs (yellow, red)	2x LEDs (yellow, red), buzzer, vibration		
Mechanical specifications				
Material	ABS plastic			
Color	White			
Size	52 x 41 x 15.5 mm (case-body only) 52 x 49 x 15.5 mm (including flanges for wriststrap)			
Weight	27.5 gr			
Wearability	Compatible with wrist-straps with max width 26mm: - Standard NATO straps - Disposable bands for hospital or daily use			
Opening	Back lid with four M2 screws			
Protection	IP65			
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)			
Certifications				
CE, FCC				

BlueUp reserves the right to change product specifications at any time without prior notice.

Bluetooth is a trademark of Bluetooth SIG, iBeacon is a trademark of Apple Inc., Eddystone is a trademark of Google Inc., Quuppa is a trademark of Quuppa Oy, ARM and Cortex are trademarks of ARM Inc.