

Loc. Belvedere, Ingresso 2, 53034 Colle di Val d'Elsa (SI) - ÎTALY 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 Lite BLE

Bluetooth Low Energy wearable tag 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
- Button, 2x LEDs, with optional vibration and buzzer
- Eyelet for lanyard or clip
- 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)		





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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	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		
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			

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