BlueUp S.r.l.
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

Tag Slim Quuppa

Quuppa Intelligent Locating System® asset tag

Data sheet

Key features

- **Suitable for asset location and tracking**
- **Based on Nordic nRF52832**
- **Firmware based on Quuppa libraries**
- **3-axis accelerometer for motion detection**
- **Splash-proof case with flexible fastening options**
- **Optional version with button and LEDs**
- **Powered by 2x replaceable CR2032 coin batteries**

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

BlueUp S.r.l.
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		
Type	Integrated meandered planar inverted F-antenna (PIFA)	
Gain	2 dB (max)	
Radiation diagram	Omnidirectional	
Power		
Power supply	Battery	
Replaceable	Yes	
Type	2x CR2032 (3V, lithium)	
Model	Panasonic CR20232 or equivalent (typical capacity 440 mAh @ 25°C)	
Sensors and interfaces		
Version	STD	BUT
Sensors	3-axis MEMS linear accelerometer	3-axis MEMS linear accelerometer Button
Interfaces	-	2x LEDs
Mechanical specifications		
Material	ABS plastic	
Color	White	
Size	67 x 33 x 9 mm	
Weight	18 gr	
Fastening	4 holes for max. M3.5 screws or cable-ties	
Opening	4 screws	
Protection	IP54	
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 (RED), EN60601-1-2 (EMC for medical equipment) FCC		

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.