

## Brick Quuppa Quuppa Intelligent Locating System® asset tag

Data sheet



## **Key features**

- Suitable for outdoor and industrial applications
- Based on Nordic nRF52832
- Firmware based on Quuppa libraries
- 3-axis accelerometer for motion detection
- Rugged IP67 enclosure
- Powered by replaceable lithium thionyl chloride battery pack ER14505 1S2P

General features					
Quuppa Compatible: based on Quuppa libraries					
Supports back-channel communication, proprietary channels, OTA Firmware Upgrade					
Configuration options	Configurable with Quuppa Site Planner				
TX power	-40, -20 to 4 dBm (with 4 dB steps)				
Advertising interval	0.1 to 10 secs (BLE channel) 0.02 to 10 secs (Quuppa proprietary channel)				
Advertising channels	BLE (CH37 – 2.402 GHz) or Quuppa proprietary				
Quuppa ID	MAC address or custom ID				

Device specifications		
Electrical specifications		
Core module	Nordic nRF52832 SoC (MCU and radio transceiver)	
MCU core	64 MHz ARM Cortex-M4 32-bit CPU, 512/256 KB Flash, 64/32 KB RAM	
Current consumption (25°C)	Radio TX: 7.1 mA (0 dBm TX) Radio RX: 6.5 mA Idle mode: 3 $\mu$ A Idle mode with accelerometer ON: 7 $\mu$ A	
Radio specifications		
Standard	Bluetooth 4.2 Bluetooth Low Energy (Bluetooth 5-ready)	
Frequency band	2.402 to 2.480 GHz (according to Bluetooth 4.0 specifications, worldwide ISM band)	
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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General features				
Antenna				
Туре	Printed meandered planar F-antenna			
Gain	2 dB (max)			
Radiation diagram	Omnidirectional			
Power				
Power supply	Battery			
Replaceable	Yes			
Туре	2x AA 3.6V Lithium Thionyl Chloride LiSoCl2			
Model	Battery pack 2x HBC ER14505 1S2P (3.6V, Lithium Thionyl Chloride LiSoCl2, 5200 mAh typ. capacity @ 25°C)			
Sensors and interfaces				
Sensor	3-axis linear accelerometer			
Interface	Led (internal, on PCB)			
Mechanical specifications				
Material	Polycarbonate plastic			
Color	Light grey RAL7035			
Size	64 x 58 x 35 mm (Ver. NF: no-flange enclosure) 94 x 58 x 35 mm (Ver. WF: flanged enclosure)			
Weight	94 gr (Ver. NF: no-flange enclosure) 108 gr (Ver. WF: flanged enclosure)			
Wall fastening	Screws (invisible wall-mounting within the base part or flanges), silicone glue, double side tape			
Opening	Front cover with screws			
Protection	IP67 / NEMA6			
Flammability	UL94-HB (UL94-V0 on demand)			
Environmental specifications				
Operating temperature	-40°C to +75°C (contact us for battery life at extreme conditions)			
Storage temperature	0°C to +30°C, RH<75% (with battery)			
Certifications				
CE				



BlueUp S.r.l. Loc. Belvedere, Ingresso 2, 99, 53034 Colle di Val d'Elsa (SI) Ph. +39 344 2030929 / +39 0577 043101 E-mail: info@blueupbeacons.com, Web: www.blueupbeacons.com P.IVA/CF/VAT N. IT01373980521

Versions	
NF	
	Enclosure without flanges Front cover allows an easy battery replacement. Size: 64 x 58 x 35 mm
WF	
	Enclosure with flanges For fast and robust wall installations. Front cover allows an easy battery replacement. Size w/o flanges: 64 x 58 x 35 mm Size w flanges: 94 x 58 x 35 mm

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