

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		
Firmware based on Quuppa libraries (Quuppa-Compatible)		
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 µA Idle mode with accelerometer ON: 7 µA
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)

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	EIRP (Equivalent Isotropic Radiated Power): +6 dBm (max)	
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		



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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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