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Brick BLE Bluetooth Low Energy beacon

Data sheet



Key features

- Suitable for outdoor and industrial applications
- Based on Nordic nRF52832
- Simultaneous support of iBeacon and Eddystone
- 3-axis accelerometer for motion detection
- Rugged IP67 enclosure
- Ultra-long battery life with replaceable 3.6V lithium battery-pack

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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), Sensors		
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 μ A Idle mode with accelerometer ON: 7 μ A	
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	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		
Sensors	3-axis MEMS linear accelerometer	
Interfaces	-	
Mechanical specifications		
Material	Polycarbonate plastic	
Color	Light grey RAL7035	
Size	64 x 58 x 35 mm (enclosure without flanges) 94 x 58 x 35 mm (enclosure with flanges)	
Weight	94 gr (enclosure without flanges) 108 gr (enclosure with flanges)	
Fastening	Screws (not included), silicone glue, double side tape	
Opening	Front cover with four screws	
Protection	IP67/NEMA6	
Flammability	UL 94 HB (UL94-V0 on demand)	
Environmental specifications		
Operating temperature	-40°C to +75°C (battery operating life decreases under -10°C)	
Storage temperature	+10°C to +30°C (with battery), -40°C to +85°C (without battery)	
Certifications		
CE		



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Versions	
NF	
	Standard version, without flanges Front cover allows an easy battery replacement. Size: 64 x 58 x 35 mm
WF	
Contraction of the second seco	Standard version, 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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