Brick Wire 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**
- **External power supply with voltage 5-30Vdc**

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)	
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)

Antenna	
Type	Integrated meandered planar inverted F-antenna (PIFA)
Gain	2 dB (max)
Radiation diagram	Omnidirectional
Power	
Power supply	External DC voltage
Voltage	5-30 V DC
Current	0.16 mA max. (@5V DC, PTX = 4dBm, ADV = 100msec, connectable)
Connector	Internal 2-poles screw connector (with cable-gland)
Sensors and interfaces	
Sensors	3-axis MEMS linear accelerometer
Interfaces	-
Mechanical specifications	
Material	Polycarbonate (PC) plastic
Color	Light grey RAL7035
Size	94 x 58 x 35 mm (with flanges, excluding cable-gland) 94 x 75 x 35 mm (with flanges, including cable-gland)
Weight	88 gr
Fastening	Screws(not included), silicone glue
Opening	Front cover with four screws
Protection	IP67/NEMA6
Flammability	UL 94 HB
Environmental specifications	
Operating temperature	-40°C to +75°C
Storage temperature	-40°C to +75°C
Certifications	
CE	