

Loc. Belvedere, Ingresso 2, 53034 Colle di Val d'Elsa (SI) - ÎTALY 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

Board/B BLE

Bluetooth Low Energy beacon

Data sheet



Key features

- Ideal for industrial and outdoor applications
- Simultaneous support of iBeacon and Eddystone
- Rugged resistant IP67/NEMA6 enclosure
- External DC power supply with voltage range up to 30V DC

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), Sensors		
TX power	-40, -30, -20 to 4 dBm (with 4 dBm 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	

Device specifications		
Electrical specifications		
Core module	Nordic nRF51822 SoC (MCU and radio transceiver)	
MCU core	ARM Cortex-M0 32-bit CPU	
Current consumption (25°C)	Radio TX: 8 mA (0 dBm) Radio RX: 9.7 mA Idle mode: 3 µA Sleep mode: 1.5 µA	
Radio specifications		
Standard	Bluetooth 4.1 Bluetooth Low Energy	
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)	





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		
Туре	Integrated meandered planar inverted F-antenna (PIFA)	
Gain	2 dB (max)	
Radiation diagram	Omnidirectional	
Power		
Power supply	External DC voltage	
Connector	2-pole 2.54 mm connector header (customizable)	
Voltage	2.7 – 30 VDC	
Current	10 mA (peak) 0.2 mA (average, at PTX = 0 dBm and ADV = 100 msec)	
Mechanical specifications		
Aspect	Polycarbonate plastic enclosure	
Color	Light grey RAL7035 (silk-screen printing available on demand)	
Size	115 x 65 x 40 mm	
Weight	112 gr	
Wall fastening	Flanges with screws	
Opening	Front cover with screws	
Protection	IP65 / NEMA4	
Flammability	UL 94 HB	
Environmental specifications		
Operating temperature	-30°C to +75°C	
Storage temperature	-40°C to +85°C	
Certifications		
CE		