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Board/S BLE

Bluetooth Low Energy beacon

Data sheet



Key features

- Single board format
- Simultaneous support of iBeacon and Eddystone
- Designed for industrial and automation applications
- Two alternative antenna options: integrated antenna;
 UFL connector for external antenna

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)			





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Antenna				
Version	Integrated antenna	UFL connector for external antenna		
Туре	Integrated meandered planar inverted F-antenna (PIFA)	External (UFL connector)		
Gain	2 dB (max)	depends on selected antenna		
Radiation diagram	Omnidirectional	depends on selected antenna		
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	Single-board PCB			
Size	37 x 40 mm			
Weight	2.5 gr			
Fastening	4x M3 screws (plastic screws are suggested)			
Protection	none			
Flammability	UL 94 HB			
Environmental specifications				
Operating temperature	-30°C to +75°C			
Storage temperature	-40°C to +85°C			
Certifications				
CE				



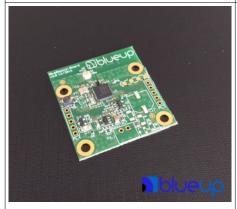


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Versions



BlueBeacon Board OEM: integrated antenna



BlueBeacon Board OEM: UFL connector for external antenna

BlueUp reserves the right to change product specifications at any time without prior notice.

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