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Forte+ 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
- Powered by replaceable CR123A lithium battery

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, -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		
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)	





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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	CR17345 (3V, lithium)
Model	Panasonic Industrial CR123A (typical capacity 1500 mAh @ 25°C)
Sensors and interfaces	
Sensors	3-axis MEMS linear accelerometer
Interfaces	-
Mechanical specifications	
Material	Polycarbonate plastic
Color	Light grey RAL7035
Size	50 x 52 x 35 mm (version without flanges) 50 x 80 x 35 mm (version with flanges)
Weight	60 gr (version without flanges) 67 gr (version with flanges)
Fastening	Screws (not included), silicone glue, double side tape
Opening	Front cover with two screws
Protection	IP67/NEMA6
Flammability	UL 94 HB
Environmental specifications	
Operating temperature	-30°C to +70°C (battery operating life sharply 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: 50 x 52 x 35 mm

WF



Standard version, with flanges For fast and robust wall installations. Front cover allows an easy battery replacement.

Size w/o flanges: 50 x 52 x 35 mm Size w flanges: 50 x 80 x 35 mm