

Maxi BLE

Bluetooth Low Energy beacon

Data sheet



Key features

- Indoor location and way-finding applications
- Based on Nordic nRF52832
- Simultaneous support of iBeacon and Eddystone
- Toroidal-pattern antenna
- Snap-fit enclosure with wall-mounting bracket
- Powered by two replaceable AA batteries with long operating life

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

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)



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Antenna	
Type	T-shaped Integrated Planar Antenna (TIPA)
Gain	2 dB (max)
Radiation diagram	Toroidal
Power	
Power supply	Battery
Replaceable	Yes
Type	2x AA 1.5V (LR6 alkaline)
Model	Panasonic LR6 or equivalent (typical capacity 2600 mAh @ 25°C)
Sensors and interfaces	
Sensors	-
Interfaces	-
Mechanical specifications	
Material	ABS plastic
Color	White
Size	70 x 45 x 32 mm
Weight	80 gr
Fastening	Wall-mount bracket, dual-adhesive
Opening	Snap-fit cover
Protection	IP40
Flammability	UL 94 HB
Environmental specifications	
Operating temperature	-20°C to +60°C (battery operating life sharply decreases under 0°C)
Storage temperature	+10°C to +30°C (with battery), -40°C to +85°C (without battery)
Certifications	
CE (RED), EN60601-1-2 (EMC for medical equipment) FCC	

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