

# Bluetooth Low Energy Beacon

## MINI BLE BEACON



### GATT AND ADVERTISING

Full support for specifications Eddystone Configuration GATT Service by Google

Up to 4 slots configurable for Eddy frame types: UID, URL, TLM, EID

Up to 4 slots configurable for the following frame types: iBeacon, Quappa (emulation mode), Sensors

TX Power	-40, -20 to 4dBm (with 4 dB steps). Programmable time period
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

### 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 Specification)
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)

### FEATURES

- **General purpose BLE beacon**
- **Indoor proximity and way-finding applications**
- **Based on Nordic nRF52832**
- **Simultaneous support of iBeacon and Eddystone**
- **Compact enclosure**
- **Powered by replaceable CR2477 lithium battery**

## TECHNICAL DATA

### ANTENNA

Type	Integrated meandered planar inverted F-antenna (PIFA)
Gain	2 dB (max)
Radiation Diagram	Omnidirectional

### POWER

Power Supply	Battery
Replaceable	Yes
Type	CR2477 (3V, lithium)
Model	Panasonic Industrial CR2477 (typical capacity 1000 mAh @ 25°C)

### SENSORS AND INTERFACES

Sensors	-
Interfaces	-

### MECHANICAL SPECIFICATIONS

Material	ABS plastic
Color	White
Size	40 x 40 x 15 mm
Weight	20 gr
Fastening	Dual-adhesive
Opening	Back lid with two screws
Protection	-
Flammability	UL 94 HB

### APPLICABLE STANDARDS

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, FCC
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## ORDER CODES

VERSIONEN	ORDER CODES
Mini BLE Beacon	IOT-BT-BL-IN-6401