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FeasyBeacon Super

Bluetooth Long Range Beacon

FSC-BP109 Datasheet Version 1.0



FeasyBeacon Super is an USB-powered Bluetooth 4.0 super long range beacon, which comply with iBeacon or Eddystone technology.

FeasyBeacon Super is specially customized for solving the poorer coverage problem by having an whip antenna that allows for a range up to 4000m, particularly suitable for retail, stadium, museum, hospital, exhibition, hotel, restaurant and the remote area wireless communication application ,etc.

FeasyBeacon Super can be powered by any electronic device with USB port or directly by the AC power via an AC/DC power supply with the USB Port. This ensures an endless operating life, without any maintenance & extra cost for battery replacement.

Advertising

iBeacon Version

User-configurable characteristics	UUID, major and minor numbers, tx power at 1m
Advertising interval	0.1 to 1 sec (programmable, with 0.1 sec steps)
Secure config	access password, connectable/ not-connectable
Switch	ibeacon on/off

Eddystone version

User-configurable characteristics	URL: all mandatory and optional parameters; UID: namespace and instance ID
Advertising interval	0.1 to 1 sec (programmable, with 0.1 sec steps)
Secure config	access password, connectable/ not-connectable
Switch	Eddystone on/off

Other feature

Other feature	OTA (over the air update firmware), support ibeacon and Eddystone advertisement at the same time
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Device specifications

Electrical specifications

Core module	CSR8811 + RF Power Amplifier
MCU core	ST ARM 32-bit Cortex-M4 CPU
Current consumption	Radio TX: 225 mA (@ 18.5dBm)
	Radio RX: 225 mA
	Idle mode: No support

Radio specifications

Standard	Bluetooth 4.0 Smart Ready (Dual Mode)
Frequency band	2.402 to 2.480 GHz (according Bluetooth 4.0 specifications, worldwide ISM band)
Advertising channels	Classic Bluetooth: 2.402GHz~2.48GHz
	BT4.0: CH37 (2.402 GHz), CH38 (2.426 GHz), CH39 (2.480 GHz) (according Bluetooth 4.0 specifications)
Channel spacing	1MHz Or 2MHz (according Bluetooth 4.0 specifications)

Antenna

Type	DIPOLE Antenna (SMA interface)
Gain	6dBi (Max)
Radiation diagram	Omnidirectional

Power	
Power supply	USB
Voltage	5V (typ.)

Mechanical specifications	
Material	ABS moulded plastic
Color	Black
Size	90 X 38 X 22 mm(not including antenna)
Protection	IP40

Environmental specifications	
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C

Feasycom reserves the right to change product specifications at any time without prior notice.
iBeacon is a trademark of Apple Inc., Eddystone is a trade of Google Inc.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information:

FCC RF Exposure requirements:

The highest SAR value reported under this standard during product certification for use next to the head with the minimum separation distance of 5mm is 0.71W/Kg.

This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter. This product is compliance to FCC RF Exposure requirements and refers to FCC website <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID: 2AMWO-FSC-BP109