FeasyBeacon

FSC-BP101 Datasheet

1. Description

FeasyBeacon FSC-BP101 is an ultra mini size USB powered beacon. It simultaneously supports iBeacon, Eddystone (e.g. URL, UID), AltBeacon for broadcasting and provides the ability to advertise up to 10 slots of advertising frames. Transmit distance up to 300m.

With low cost and long cover range features, it's the best choice for business marketing projects with limited budget.

With the iOS & Android FeasyBeacon SDK, the developers can take advantage of the flexibility of the SDK and focus on their own application, such as Broadcast, Proximity Marketing, Digital Signage, Indoor and Outdoor Location, Asset Tracking, Vehicle Tracking, etc. Meanwhile, FeasyBeacon SDK compiled app is available to download from both the iOS and Android platform (search 'FeasyBeacon' to download).

2. Features

- USB Powered, Small Size
- Bluetooth 4.2 USB BT beacon
- Pre-programmed with Feasycom Standard Beacon Firmware
- Up to 10 slots of Advertising Frames
- Up to 300m cover range
- Configurable by Free FeasyBeacon Mobile App and SDK
- Customizable Logo, Hardware, Software

3. Functional Specifications

Item	Description
Advertising Format	Eddystone (URL/ UID), iBeacon, AltBeacon
Configuring Method	FeasyBeacon SDK compiled app (e.g. FeasyBeacon app)
Advertising Interval	Default 100 ms, range from 100 ms to 10000 ms
Security	Access password required, Default Pin Code 000000
Max Number of Broadcast	10 Slots configurable advertising frames
Default Broadcast Interval	100 ms for iBeacon & Eddystone
System Compatibility	iOS 7.0+, Android 4.3+
Advertising Distance	Up to 300m (open area)
Firmware Upgrading	OTA (upgrade firmware over the air)

4. Product Specifications

Item	Description
Chipset	CP005
Bluetooth Version	Bluetooth 4.2
TX power	0 dBm to +8 dBm
Antenna	PCB Coil antenna
Power Supply	5V USB
Material	ABS plastic
Color	Black
Size	29.5(L)*15(W)*7.6(H)mm
Net weight	2.1 g
Protection	IP40
Operating temperature	-20°C to +70°C
Certification	CE

www.feasycom.com

5. Configurable Parameters

Parameters in the below table are configurable by FeasyBeacon SDK compiled app (e.g. FeasyBeacon app), feel free to download FeasyBeacon app from Google Play App Store or iOS App Store.

Parameter		Description
Device Name		UTF-8 string, Default: FSC-BP101-XXXXXX
Pin Code		Access password to FSC-BP101 Default: 000000, Range: 000000 ~ 999999
Advertising Interval		Default: 100 ms, Range: 100 ~ 10000 ms
Tx Power		Maximum Tx power: +8 dBm Default: 7 dBm, Range: 0 ~ +8 dBm
Eddystone-URL	URL	URL that needed to be advertised
	RSSI at 0m	A 1-byte value representing the average received signal strength at 0m from the advertiser (FSC-BP101), range: 0 ~ -127
Eddystone-UID	Namespace	10-byte Namespace
	Instance	6-byte Instance
	Reserved	Reserved for future use
	RSSI at 0m	A 1-byte value representing the average received signal strength at 0m from the advertiser (FSC-BP101), range: 0 ~ -127
iBeacon	UUID	16-byte UUID, e.g. FDA50693A4E24FB1AFCFC6EB07647825
	Major	2-byte Major, range: 0 ~ 65535
	Minor	2-byte Minor, range: 0 ~ 65535
	RSSI at 1m	A 1-byte value representing the average received signal strength at 1m from the advertiser (FSC-BP101), range: 0 ~ -127
AltBeacon	ID1	Beacon Identifier 1
	ID2	Beacon Identifier 2
	ID3	Beacon Identifier 3
	RSSI at 1m	A 1-byte value representing the average received signal strength at 1m from the advertiser (FSC-BP101), range: 0 ~ -127
	Manufacturer ID	The beacon device manufacturer's company identifier code
	Manufacturer Reserved	Reserved for use by the manufacturer to implement special features

6. Certification

Attestation of Conformity

Registration No.	AGC03285200702E0
Applicant	Shenzhen Feasycom Technology Co.,LTD
	Room 2004A, 20th Floor, Huichao Technology Building, Jinhai Road, Xixiang , Baoan District, Shenzhen, China
Product Designation	Bluetooth USB Powered Beacon
Brand Name	Feasycom
Model / Series Models	FSC-BP101
Manufacturer	Shenzhen Feasycom Technology Co.,LTD
	Room 2004A, 20th Floor, Huichao Technology Building, Jinhai Road, Xixiang , Baoan District, Shenzhen, China

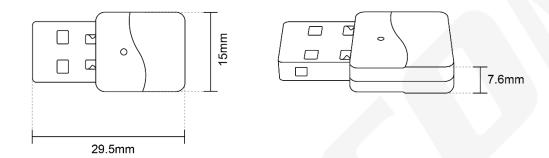| Requirement	Applied Standards	Document Evidence	Result
Art.3.1(a) Health	EN 62479:2010	Test Report: AGC03285200702EH02	Conform
Art.3.1(a) Safety	EN 62368-1:2014+A11:2017	Test Report: AGC03285200702ES01	Conform
Art.3.1(b) EMC	ETSI EN 301 489-1 V2.2.3 Draft ETSI EN 301 489-17 V3.2.2	Test Report: AGC03285200702EE01	Conform
Art.3.2 Radio	ETSI EN 300 328 V2.2.2	Test Report: AGC03285200702EE11	Conform

CE

Signed by General Manager (King Zhang)
Issue Date: July 29, 2020

7. Dimensions

8. Declaration

The contents of this datasheet are subject to change without prior notice for further improvement. Feasycom team reserves all the rights for the final explanation.

iBeacon is a trademark of Apple Inc., Eddystone is a trademark of Google Inc.

Please contact Feasycom sales team or visit https://www.feasycom.com/ to get more related information if needed.

9. Contact Information

Shenzhen Feasycom Technology Co.,LTD

Address: Rm 2004-2005, 20F, Huichao Technology Bldg, Jinhai Rd, Xixiang, Baoan Dist, Shenzhen, 518100, China.

Telephone: 86-755-23062695

Support: support@feasycom.com

Sales Service: sales@feasycom.com

Revision History

Version	Changes	Author
1.0	Initial Release	Devin
1.2	Update specifications	Lynn
1.3	Update description Update specifications Document reorganization	Tim
1.4	Update description	Tim
1.5	Add CE certification report	Fish

www.feasycom.com