

DearBeacon

Model: E9

Datasheet

V005

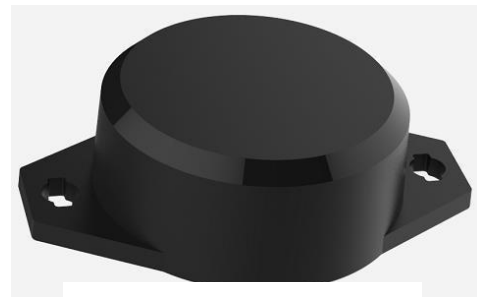
Part #	Description
E9	DearBeacon, Bluetooth® LE 5.0, IP67 waterproof, screw fixing, pre-lashed MiniBeacon Plus software supports broadcasting iBeacon and Eddystone simultaneously;
E9S	DearBeacon with 3-axis accelerometer sensor, Bluetooth® 5.0, IP67 waterproof, screw fixing, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon , Eddystone and Sensor data simultaneously;

The DearBeacon E9 is a new generation beacon which loaded accelerometer and intelligence MiniBeacon Plus software on the Bluetooth® LE 5.0 hardware platform. E9 has a smart rotatable mechanical design for the housing that makes the coin battery replaceable and IP67 waterproof grade combination perfectly.

It is attached to objects by screws mounting or double-sided adhesive for indoor location, activity monitoring, asset tracking etc. so as to realize the remote data management. It is able to configure the DearBeacon E9 via configuration app BeaconSET+ to different parameters so that to meet different applications.

FEATURE

- IP67 waterproof;
- Replaceable internal battery 1000mAh
- Advertising iBeacon & Eddystone & Sensordata
- Bluetooth® Low Energy 5.0 chip set nRF52 series
- The max. 100 meters advertising distance
- Internal ON/OFF push button
- Tough enclosure and screw fixing
- Accelerometer sensor option



DearBeacon E9

APPLICATION

- Indoor location
- Retail promotion
- Activity monitoring
- Inventory tracking

ACCESSORY

- 2 pcs screws / double-sided adhesive

CONFIGURATION TOOL

- BeaconSET+ (iOS & Android)

ACTIVATE E9

- Clockwisely open the rotatable housing, press “push button” and keep holding on 3 seconds; The blue LED lights on 5 seconds and then off, the BeaconPlus E9 has been activated on;
- Press “push button” and keep holding on 3 seconds; The blue LED blinks 5 times and then off, the BeaconPlus E9 has been turned off;

CERTIFICATION

- iBeacon MFi License (iBC-14-00582)
- Bluetooth® EPL Certification
- FCC Regulation (FCC Part 15.)
- CE Regulations (Included EN300328/301489/60950/62479)

ELECTRONIC PARAMETER

Item	Value	Remarks
Case Color	Black	Other colors can be customized
Battery Model	1 x CR series battery	1000 mAh, 1.5Year@1sec , 2.5year@2sec Beacon
Transmission Current	5.3 mA (peak current)	Tested at 0 dBm transmission power
Transmission Range	100 meters	Maximum
Waterproof level	IP67	Tested at 1-meter water
Antenna	50 ohm	On board / PCB Antenna
Size	58 x 40.5 x 18 mm	Null

PARAMETER SETTING

Each E9 DearBeacon has been pre-configured in the factory before the shipment. Here below is given the main parameters and default settings.

Type	Item	Default Settings
iBeacon	UUID (16 bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (Proximity)
	Major (2 bytes)	0
	Minor (2 bytes)	0
Eddystone	Instance ID @UID	Random (6 bytes)
	Namespace ID @UID	Random (10 bytes)
	URL	https://www.engineeringcraft.com
Base Parameters	Measured Power	-59 (0xC5)
	Radio Tx power	6 (0 dBm)
	Adv. Interval	9 (900 ms)
	Beacon ID	Random, it is the MAC address of beacon.
	Beacon Name	PLUS
	Connectable	Yes (it is configuration mode)
	Password	minew123 (8 characters only)
Extra Function	Reset factory	Available
	Power off	Available
	Modify password	Available
	Remove password	Available
	Update firmware	Available

ACCELEROMETER SENSOR PARAMETER

Type	Item		Default Settings
Accelerometer Measurement	Range	+/-2g	Adjustable by firmware
	Measurement Accuracy	1mg/digit	
	Sampling Period	Once every 90ms	---

TECHNICAL DOCUMENT

Item	Version	File Name	Date
Datasheet	V2.0	E9 DearBeacon Datasheet	30 th May, 2019
Instruction	V1.0	E9 DearBeacon Configuration Instruction	5 th June, 2019
SDK	V2.0	Both iOS and Android	18 th May, 2018

PACKING INFORMATION

Details	Box	Carton
Quantity (E9)	20 pcs	200 pcs
Net Weight	0.45 Kg	4.5 Kg
Gross Weight	0.55 Kg	6.2 Kg
Size	31 x 11 x 8 cm	32 x 23 x 40 cm

FIRMWARE UPDATE

1. J-LINK Port;
2. Over the Air(OTA);

DECLARATION

The contents of this datasheet are subject to change without prior notice for further improvement. team reserves the right to explain all the terms of this datasheet.

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