DearBeacon
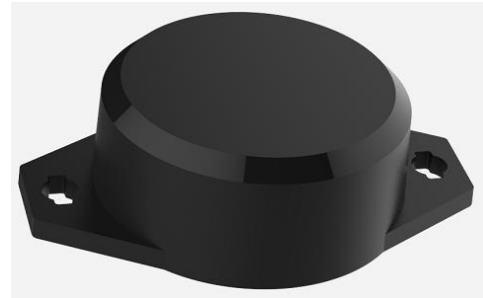
Model: E9

Datasheet V1.0

Part #	Description
E9-6001A	204860001, DearBeacon, Bluetooth 5.0, IP67 waterproof, screw fixing, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon and Eddystone simultaneously

The DearBeacon E9 is a new generation beacon that loaded Bluetooth 5.0 hardware platform and MiniBeacon Plus intelligence software. E9 has a smart rotatable mechanical design for the housing that makes the coin battery replaceable and IP67 waterproof grade combination perfectly. Moreover, E9 can be fixed by the screw and 3M adhesive.

E9 DearBeacon advertises standard iBeacon and Eddystone (UID,URL,TLM) data packet simultaneously. The user can configure the E9 DearBeacon via configuration app BeaconSET+ as well.

FEATURE

- IP67 waterproof;
- Replaceable coin battery 1000mAh
- Advertising iBeacon & Eddystone
- Unique MAC address (ITU)
- Bluetooth 5.0 chipset nRF52 series
- The max. 100 meters advertising distance
- Internal power ON/OFF push button
- Tough enclosure and screw fixing

DearBeacon E9

APPLICATION

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

ACCESSORY

- 2 pcs screw

CONFIGURATION TOOL

- BeaconSET+ (IOS & Android)

ACTIVATE E9

- **Open the rotatable housing, pressing "push button" and keep holding on 3 seconds;**
- **The LED lights on 5 seconds and then off, the DearBeacon E9 has been activated on;**

CERTIFICATION

- iBeacon MFi License (iBC-14-00582)
- 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 CR2477	3.0V, 1000mAh
Operation Voltage	1.8-3.9V	DC
Transmission Current	5.3mA (peak current)	Tested at 0dBm transmission power
Transmission Range	100 meters	Maximum
Waterproof level	IP67	Tested at 1 meter water
Antenna	50ohm	On board / PCB Antenna
Size	Φ 49 x 66 x 17.5mm	49mm diameter, 66mm length, 17.5mm height

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.minewtech.com
Base Parameters	Measured Power	-59 (0xC5)
	Radio Tx power	6 (0dBm)
	Adv. Interval	9 (900mS)
	Beacon ID	random, it is MAC address of beacon actually.
	Beacon Name	PLUS
	Connectable	yes (it is configuration mode)
	Password	minew123 (Allowing only 8 characters)
Extra Function	Reset factory	available
	Power off	available
	Modify password	available
	Remove password	available
	Update firmware	available

TECHNICAL DOCUMENT

Item	Version	File Name	Date
Datasheet	V1.0	E9 DearBeacon Datasheet	8th May, 2018
Instruction	V2.0	MiniBeaconPlus Configuration Instruction	8th May, 2018
SDK	V1.0	Both iOS and Android	28th December, 2017

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 Flash

1. J-LINK Programmer Kit;
2. Programming ports definition;

Please contact MINEW sales team to ask more related information if needed.

DECLARATION

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

<END>

FCC WARNING

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator your body: Use only the supplied antenna.