



Technoration India Pvt. Ltd.

# DearBeacon

## MODEL : TRB-E9

### Datasheet

### V005

Part #	Description
E9	DearBeacon, Bluetooth® LE 5.0, IP67 waterproof, screw fixing, pre-lashed Beacon Plus firmware supports broadcasting iBeacon and Eddystone simultaneously.
E9S	DearBeacon with 3-axis accelerometer sensor, Bluetooth® 5.0, IP67 waterproof, screw fixing, pre-flashed Beacon Plus firmware supports broadcasting iBeacon and Eddystone simultaneously.

The DearBeacon TRB-E9 is a new generation beacon which loaded accelerometer and intelligence Beacon Plus firmware on the Bluetooth® LE 5.0 hardware platform. TRB-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 TRB-E9 via configuration App BeaconSET+ to different parameters so that to meet different applications.

## FEATURE

- IP67 waterproof;
- Replaceable 1000mAh coin battery
- Advertising iBeacon & Eddystone
- Bluetooth® LE 5.0 chipset, nRF52 series
- The Max. 100 m advertising distance
- Internal ON/OFF push button
- Tough enclosure and screw fixing
- Accelerometer sensor option



## APPLICATION

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

## ACCESSORY

- 2 pcs screws / double-sided adhesive

## CONFIGURATION TOOL

- BeaconSET+ (iOS & Android)

## ACTIVATE TRB-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 TRB-E9 has been activated on;
- Press “push button” and keep holding on 3 seconds; The blue LED blinks 5 times and then off, the TRB-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
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	57.8 x 40.6 x 17.5 mm	Null

## PARAMETER SETTING

Each TRB-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	<a href="https://www.minew.com">https://www.minew.com</a>
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	TRB-E9 DearBeacon Datasheet	30 <sup>th</sup> March, 2023

## PACKING INFORMATION

Details	Box	Carton
Quantity	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);
- 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.

## CONTACT

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