

# Tag Beacon

**Model: E8**

**Datasheet V1.1**

Part #	Description
E8-6001A	204720001, Tag beacon with accelerometer, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon, Eddystone and sensor data simultaneously
E8-6003A	204720003, Tag beacon without accelerometer, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon, Eddystone and sensor data simultaneously

The Tag Beacon E8 is a new generation beacon that loaded Bluetooth 5.0 hardware platform, low power consumption 3-axis accelerometer (optional) and MiniBeacon Plus intelligence software.

E8 tag beacon advertises standard iBeacon, Eddystone (UID,URL,TLM) and accelerometer sensor data simultaneously. The user can configure the E8 tag beacon via configuration app BeaconSET+ as well.

Moreover, E8 tag beacon with accelerometer advertises sensor data ONLY when an object (E8 attached) is moving or after an object has fallen.

## FEATURE

- Advertising iBeacon & Eddystone & Sensor data
- Unique MAC address (ITU)
- Bluetooth 5.0 chipset nRF52 series
- Low power consumption 3-axis accelerometer
- Included 1pc CR2032 coin battery replaceable
- The max. 50 meters advertising distance
- Weatherproof housing with key-chain hole



E8 Tag Beacon

## APPLICATION

- Asset tracking
- Activity monitoring
- Inventory tracking

## ACCESSORY

- Double side adhesive tape

## CONFIGURATION TOOL

- BeaconSET+ (IOS & Android)

## ACTIVATE E8

- **Take out the plastic battery sheet from E8 Tag beacon to activate device.**

## 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	white	Other colors can be customized
Battery Model	1 x CR2032	1pc CR2032 coin battery, 3.0V
Operation Voltage	1.8-3.6V	DC
Transmission Current	5.3mA (peak current)	Tested at 0dBm transmission power
Transmission Range	50 meters	Maximum
Sampling Interval	900ms	Accelerometer
Sampling Accuracy	+/- 2g	Default
Antenna	50ohm	On board / PCB Antenna
Size	32x23x 3.3 mm	Null

## PARAMETER SETTING

Each E8 tag beacon 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 (10 bytes)
	Namespace ID @UID	random (6 bytes)
	URL	https://www.asedis.it
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	Ase12345 (Allowing only 8 characters)
Acc Sensor	x-axis	1. It depends on beacon's real status, static or movement 2. Only working when beacon with accelerometer sensor
	y-axis	
	z-axis	
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	V1.1	E8 Tag Beacon Datasheet	8 <sup>th</sup> May, 2018
Instruction	V1.1	E8 Tag Beacon Configuration Instruction	8 <sup>th</sup> May, 2018
SDK	V1.0	Both iOS and Android	28 <sup>th</sup> December, 2017

## PACKING INFORMATION

Details	Box	Carton
Quantity (E8)	50pcs	500
Net Weight	325g	3.25Kg
Gross Weight	420.0g	5.0Kg
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 ASE srl 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. ASE team reserves the right to explain all the terms of this datasheet.

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