

BeaconPlus

Model: E7 Datasheet V1.2

Part #	Description
E7-6002A	204760002, BeaconPlus with accelerometer, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon, Eddystone and sensor data simultaneously;
E7-6003A	204760003, BeaconPlus without accelerometer, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon and Eddystone simultaneously;

The BeaconPlus E7 is a new generation beacon that loaded Bluetooth 5.0 hardware platform and MiniBeacon Plus intelligence software that advertises standard iBeacon, Eddystone (UID, URL, TLM) simultaneously. E7 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 double-sided adhesive for indoor location, activity monitoring, asset tracking etc. so as to realize the remote data management. And it is able to configure the BeaconPlus E7 via configuration app BeaconSET+ to different parameters so that to meet different applications.

Moreover, E7 BeaconPlus supports the accelerometer advertising sensor data ONLY when an object (E7 attached) is moving or after an object has fallen.

FEATURE

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



E7 BeaconPlus

APPLICATION

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

ACCESSORY

- Double side adhesive tape

CONFIGURATION TOOL

- BeaconSET+ (IOS & Android)

ACTIVATE E7

- 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 E7 has been activated on;
- Press “push button” and keep holding on 3 seconds; The blue LED blinks 5 seconds and then off, the BeaconPlus E7 has been turned off;

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 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 39 x 15.5mm	39mm diameter, 15.5mm height

PARAMETER SETTING

Each E7 BeaconPlus 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(Usually will be the beacon’s MAC ID).
	Beacon Name	PLUS

	Connectable	Yes (it is configuration mode)
	Password	minew123 (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	E7 BeaconPlus Datasheet	8 th May, 2018
Instruction	V1.1	E7 BeaconPlus Configuration Instruction	8 th May, 2018
SDK	V1.0	Both iOS and Android	28 th December, 2017

PACKING INFORMATION

Details	Box	Carton
Quantity (E7)	20pcs	200pcs
Net Weight	0.4Kg	4.0Kg
Gross Weight	0.5Kg	5.7Kg
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>