DigitalBroadcastingDevice(iBeacon/Eddystone)

Model: E7

Datasheet V1.0

Part #	Description
E7	204760001, Tag beacon with accelerometer, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon, Eddystone and sensor data simultaneously

The BeaconPlus E7 is a new generation beacon that loaded Bluetooth 5.0 hardware platform and MiniBeacon Plus intelligence software.

E7 has a smart rotatable housing that makes the coin battery replaceable; it is designed to IP67 waterproof device that can work under the water.

Moreover, E7 can advertise standard iBeacon, Eddystone (UID,URL,TLM) and sensor data simultaneously or programmed by end user themselves via configuration app.

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
- Hidden 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

- **Open the rotatable housing;**
- **Pressing "push button" and keeping on 3 seconds;**
- **The LED lights on 5 seconds, then E7 starts broadcasting;**

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	1.8-3.6V	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 (10 bytes)
	Namespace ID @UID	random (6 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	E7 BeaconPlus Datasheet	5th February, 2018
Instruction	V1.0	E7 BeaconPlus Configuration Instruction	5th March, 2018
SDK	V1.0	Both iOS and Android	28th 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>

FCC Caution：

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.