

Model: BC-09
Name : Netradyne Bluetooth Beacon BC09
Manual v1.0

Part #	Description
BC-09	204720001, Tag beacon , Bluetooth 5.0, pre-flashed software supports broadcasting Eddystone

The Beacon BC-09 is a new generation beacon that loaded Bluetooth 5.0 hardware platform, and advertises Eddystone data every few seconds

The beacon BC-09 is not meant for configuration by the user and it comes from preconfigured with Eddystone UID broadcasting for driver login feature

FEATURE

- Advertising Eddystone UID data
- Unique MAC address (ITU)
- Bluetooth 5.0 chipset nRF52 series
- Included 1pc CR2032 coin battery replaceable
- The max. 50 meters advertising distance
- Weatherproof housing with key-chain hole



APPLICATION

- Driver Identification & Login
- Activity monitoring

ACCESSORY

- None

ACTIVATE BC-09

- Take out the plastic battery sheet from BC-09 Tag beacon to activate device.

CERTIFICATION

- FCC Regulation (FCC Part 15.)

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
Antenna	50ohm	On board / PCB Antenna
Size	32x23x 3.3 mm	Null

PARAMETER SETTING

Each BC-09 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
Eddystone	Instance ID @UID	random (10 bytes)
	Namespace ID @UID	random (6 bytes)
	URL	
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	custom
Extra Function	Reset factory	available
	Power off	available
	Modify password	available
	Remove password	available
	Update firmware	available

DECLARATION

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

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.