

Easy-BLE-Scanner V1.1 Datasheet

Bluetooth Beacon Scanner & Asset Tracking Module

Product Overview

The device is primarily used in asset monitoring. The device scans BLE beacons at a regular interval and sends information about the name of the beacon, RSSI, MAC ID, Advertisement payload etc.

Product is used in industries to monitor assets, forklifts, human, etc.

The Easy-BLE-Scanner, scans for different types of beacons

iBeacon

Developed by Apple, considered a standard for BLE beacon technology, but can be proprietary due to its Apple-centric nature.

Eddystone

Google's open-source alternative to iBeacon, offering more flexibility with different frame types like Eddystone-UID (unique identifier), Eddystone-URL (broadcasting a URL), and Eddystone-TLM (telemetry data).

Custom

Proprietary beacon developed with custom payload

AltBeacon

An open-source beacon standard created by Radius Networks, aiming to provide similar functionality as iBeacon but with wider device compatibility.

It connects to the 4G Gateway using WiFi to connect with the cloud.

Power Requirements

Device is powered using 5V Power adapter that comes with the device.

Data Packet Structure

```
{
```

```
  "ts": 1733987712,
```

```

"ver": 1.1,
"cid": 0,
"stored": 0,
"mac": "XX:XX:84:7E:2F:6C",
"btc": [ {
  "mac": "XXXXXX93a86",
  "rssi": -94,
  "name": "A-PC",
  "ts": 1733987722
} ],
"ble": [ {
  "mac": "XXXXXXe53096",
  "rssi": -82,
  "ts": 1733987722,
  "manufacturerData": "0x060001092002ba2e80d82e45d541344bb219bdcfc88b524868db383f65"
} ]
}

```

Technical Specifications

Parameter	Value
Bluetooth Version	BLE 5.3
Operating Voltage	5V
Package Type	ABS Enclosure
Communication Range	40+ meters line of site
Dimensions	25 mm x 25 mm x 10 mm
Weight	10 gm
Supports	iBeacon, Eddystone, Classic, Custom, AltBeacon

Typical Applications

- Monitor Forklifts inside factory premise
- Monitor assets in factory – identify missing assets