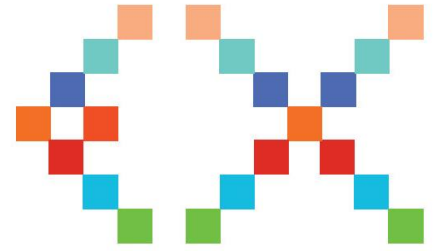


**Evoxyz Technologies**



**evoxyz**

# Evoxyz Hardware Technical Specification

**For end product user**

**Nov 11, 2019**

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## 1. Evotag

Evotags (C7 beacons) are Bluetooth low energy iBeacons which are used as smart identity cards used to track children within school. Evotags are used as identity cards in schools where a mesh of Bluetooth Low Energy Gateways gets signals from each one of them and then triangulate the location of an Evotag using algorithms proprietary to Evoxyz. The Evotags (C7 beacons) start working when they are turned ON. The Evotags have an inbuilt battery which may last for anywhere between 12 months to 24 months based on the BLE environment in indoor premises and to some extent interference generated due to reflections by concrete and metal within the building.



### Technical Specification

Color	White
Size	86*54*4mm
Weight	18gms
Battery	Li-Poly, 1 PC, Non Replaceable,

	Current: 800mAh Approx. Life: 12months – 24 months subject to environment
Chipset	BLE 5.0, nRF52 chip
Protocol	iBeacon + Eddystone
Range	70m-100m (in open space)
Waterproof	IP66
TX Power	-40dBm to 4 dBm (0dBm by default)
Transmission interval	100ms to 10s (900ms by default)
Certification	CE, FCC

### Warranty

The warranty for Evotag is 1 year from date of delivery at customer location (in case of Evoxyz it the school and enterprises). The customer needs to maintain their own warranty cycle with the end user. In case the hardware stops working due to malfunction or finishing up of battery the customer needs to buy a new Evotag

## 2. Evoreader

Evoreaders are Raspberry Pi Board based Bluetooth Low Energy IoT Gateways assembled inhouse by Evoxyz. A mesh of these IoT Gateways is deployed in indoor premises. This mesh continuously scans the Evotags present in the premises and sends the signalling information through a Wi-Fi/LAN based internet interface to the Evoxyz Cloud Servers. The Evoxyz

proprietary algorithms executing on the Cloud servers than triangulate to compute the location of an Evotag using algorithms proprietary to Evoxyz.



### Technical Specification

Color	White + Red
Size	96*71*26mm
Weight	151gms
Power	5V/2.5A DC via micro USB connector
Chipset	Raspberry Pi 3 Model B+
Operating Temperature	Operating temperature, 0-50c
Memory	1GB LPDDR2 SDRAM

	Micro SD format 8GB for system software
Network	Wi-Fi, LAN

### Warranty

The warranty for Evoreader is 1 year from date of delivery at customer location (in case of Evoxyz it the school and enterprises). The customer needs to maintain their own warranty cycle with the end user. In case the hardware stops working due to malfunction beyond the warranty period a new Evoreader needs to be procured.

