

# iBKS Card Beacon Datasheet



## ABSTRACT

iBKS Card Beacon Technical Data

## AUDIENCE

This document is primarily focused for engineers or other users with a technical profile

## FEATURES

- 🌀 Advertising **Beacon** Device
- 🌀 Replaceable batteries
- 🌀 **BLE + NFC + RFID**
- 🌀 Full **Eddystone & iBeacon** compatible
- 🌀 100% Configurable Parameters via app (Android & iOS)
- 🌀 Firmware update **Over The Air** (OTA)
- 🌀 External button to enable/disable and alarm function
- 🌀 Logo and color customizable (MOQ)
- 🌀 Provided with your own configuration (MOQ 50 units)
- 🌀 Movement sensor

**Revision 2 | May 2019**

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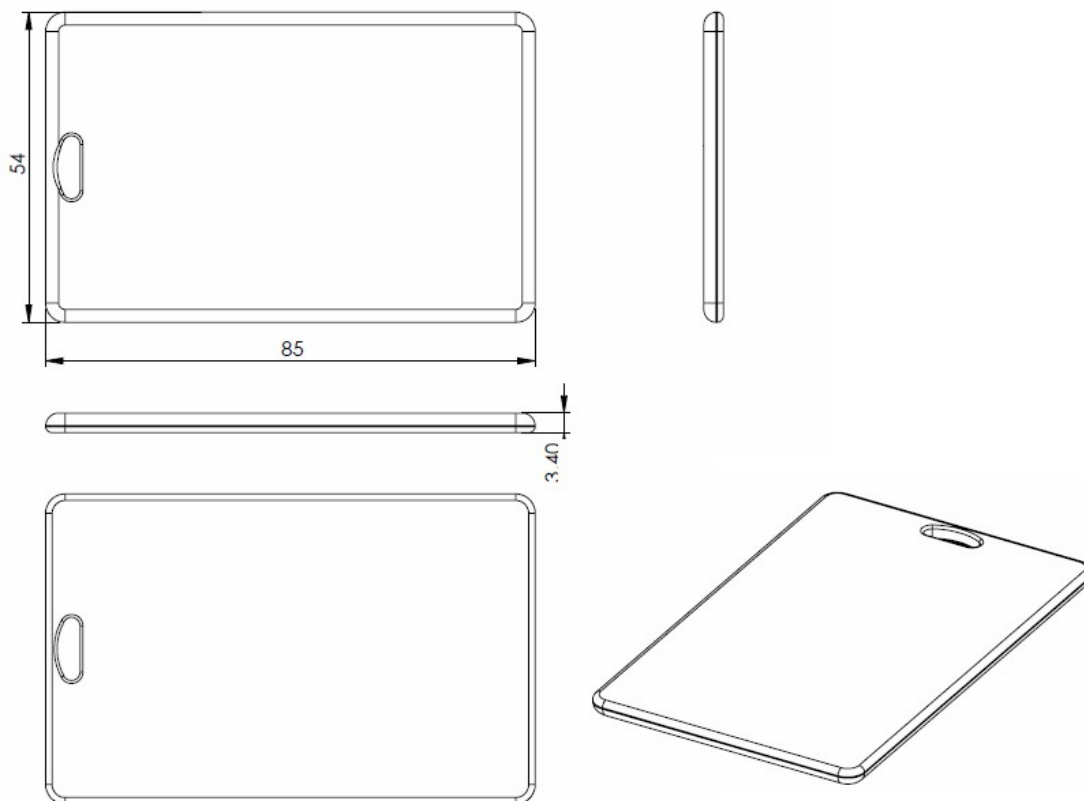
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## 1. Specifications

This section contains electrical, mechanical and software specifications for iBKS Card Beacon

<b>Dimensions (mm)</b>	54 x 85 x 3.4	<b>Sensors</b>	Accelerometer
<b>Weight</b>	22g	<b>Idle Current Consumption</b>	3.4µA
<b>Core</b>	Nordic nRF52832	<b>Case material</b>	Polycarbonate
<b>Radio Protocol</b>	Bluetooth® Low Energy	<b>Case finish</b>	Matte white
<b>BLE Distance Range</b>	Up to 100m	<b>Operating Temperature</b>	-30 to +60°C
<b>RFID</b>	Read Only Frequency 125kHz	<b>Storage Temperature</b>	0 to +35°C
<b>NFC</b>	Read Only Type - 2	<b>Beacon Protocols</b>	iBeacon Eddystone: UID, URL, TLM & EID
<b>Battery</b>	4 x Coin Cell CR2016 3V - 360mAh	<b>Firmware Update</b>	OTA (Over The Air)

## 2. iBKS Card Beacon Mechanical Draws

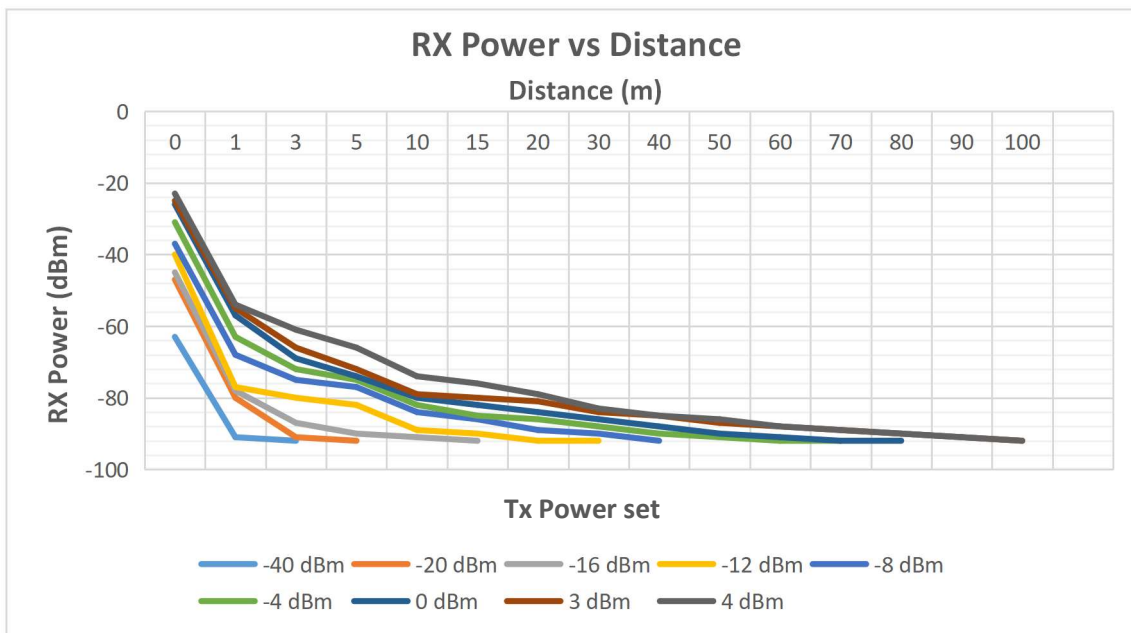


All dimensions in mm

### 3. RX Power (dBm) vs Distance

The following table and graph show the RX power received (dBm) in comparison with distance (m) for all configurable TX powers.

Distance(m)	TX Power (dBm)								
	-40	-20	-16	-12	-8	-4	0	+3	+4
0	-63	-47	-45	-40	-37	-31	-26	-25	-23
1	-91	-80	-78	-77	-68	-63	-57	-55	-54
3	-92	-91	-87	-80	-75	-72	-69	-66	-61
5		-92	-90	-82	-77	-75	-74	-72	-66
10			-91	-89	-84	-82	-80	-79	-74
15			-92	-90	-86	-85	-82	-80	-76
20				-92	-89	-86	-84	-81	-79
30				-92	-90	-88	-86	-84	-83
40					-92	-90	-88	-85	-85
50						-91	-89	-87	-86
60						-92	-90	-88	-88
70						-92	-91	-89	-89
80							-92	-90	-90
90								-91	-91
100								-92	-92






**IMPORTANT:**

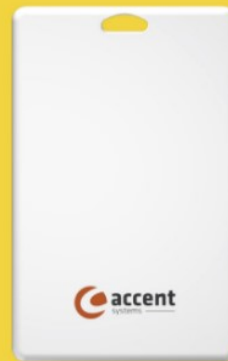
This chapter applies from firmware version EDSTEID52 V2.2018.04.03.0 onwards.

**Notice all values shown in this chapter have been tested in an open field of a city. Depending on the environment where the iBKS Card is placed, these values might differ.**

## Revision History

The following revision history table summarizes changes contained in this document.

Revision Number	Revision Date	Description of Changes
Rev 0	03/2018	Initial Release
Rev 1	09/2018	 Standard version discontinued  Added RX Power vs Distance
<b>Rev 2</b>	05/2019	 Card Beacon weight updated



[www.accent-systems.com](http://www.accent-systems.com)

**WHERE TO FIND US**

**Barcelona**  
Terra Alta, 1-3 (Pol. Ind. Can Carner)  
08211 Castellar del Vallès  
Barcelona - Spain  
Telf: (+34) 93.512.51.38

**New York**  
1460 Broadway  
New York, NY 10036, USA

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