

# TEKZIPARK RADAR SPECIFICATIONS

#### **Abstract**

This document details the specifications related to the TEKZIPARK RADAR NODE.



## **TEKZIPARK RADAR Terms of Usage**

The device is designed to be used for detecting parking space occupancy states. This product is not intended for incorporation into finished appliances that are made commercially available as single functional units to end users.

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Exposure to absolute maximum rating conditions for extended periods may affect device reliability.





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### 1. DEVICE SPECIFICATION

LPWAN	Sigfox
Operating Zones	RCZ1 (868Mhz) - Europe, Oman, Iran, South Africa, Tunisia, UAE RCZ2 (902Mhz) - USA/Mexico/Brazil RCZ3 (923Mhz) - Japan RCZ4 (920Mhz) - Australia/New Zealand/South East Asia/Rest of South America
Power	Built-in Lithium batteries (3.6V)
Antenna	Internal included
Detection	RADAR and Magnetometer
RADAR	60 GHz low power Pulsed Coherent Radar (PCR)
MAGNETOMETER	Ultra-low-power high- performance three-axis magnetic sensor
Mounting	Surface/Flush
<b>Dust &amp; Water Protection</b>	IP68
Operating temperature	-40 to +85 °C
Body Material	Polycarbonate. Makrolon FR7087 from Bayer. Flame retardant and UV stabilized that enhances impact strength and retains mechanical properties even under prolonged UV exposure. Suitable for high temperature conditions.
Firmware Update	Over the air upgrade of firmware. No need to unmount and remount.
CPU	ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz
Battery Life	See section 2
Dimensions (Surface version)	Version 1 - 219mm diameter, 30mm height, Version 2 - 209mm diameter, 30mm height
Dimensions (Flush version)	150mm diameter, 33mm height

#### SURFACE VERSION 1



#### SURFACE VERSION 2



#### **FLUSH VERSION**



Model # TEKZR-SIG-X1-PKSUF1

Model # TEKZR-SIG-X1-PKSUF2

Model # TEKZR-SIG-X1-PKFLS

<sup>(1)</sup>X is the operating zone

X=1-> RCZ1 868Mhz

X=2-> RCZ2 902Mhz

X=3-> RCZ3 923Mhz

X=4-> RCZ4 920Mhz





#### 2. BATTERY SPECIFICATION

Applicable for SURFACE VERSION 1 & F	<b>LUSH VERSION</b>
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18
2
14
12.6
6.9
10.5
8.9
4.7
1
9.6
4
8.2
7.1

24 parking events per day(years)

10 parking events per day(years)12 parking events per day(years)

24 parking events per day(years)

(Battery Life RCZ1)

A parking event consists of 2 transmissions, one for Occupied and one for Vacant.

#### IMPORTANT NOTICE - PLEASE READ CAREFULLY

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