

# Features of Smart Parking Sensor



- Parking space occupied notification
- Low battery alert
- Abnormal disassembly alert
- Periodically update (keep-alive)
- High sensitivity : down to -142dbm
- IP68 waterproofed

This Smart Parking Sensor is designed to detect empty or occupied parking space based on magnetic field sensing. It communicates with the IoT AP/Gateway using the IEEE 802.15.4g protocol standard for long range wide area deployments. Typical deployment is using star network configuration similar to mobile network base station. Because of its long range, high penetration and high sensitivity capabilities, it is a much more cost effective way for service providers to deploy for public to find a parking space or for government/company to collect parking fee.

## Specification

**Wireless Frequency Band** 902 ~ 928MHz ISM configurable (Option support for European band 868 MHz)

**Chipset solution** STM32L151C8U6TR

**LoRa solution** Semtech SX-1276

**Transmit Power** Up to 0.1W

**Receive Sensitivity** -142dBm

**Operation Temperature** -10°C ~ 75°C

**Antenna Type** TBD

**Protection Requirements** IP68

**Modulation** Based on IEEE 802.15.4g