

Parking Sensor

Features



- Parking space occupied notification
- High sensitivity down to -148 dBm
- Optional support a wide frequency range from 862MHz to 928MHz in different SKU *see specification below for more details
- Low battery alert
- Abnormal disassembly alert by G-sensor
- Periodically update (keep-alive)
- IP67 waterproof

Browan has been instrumental in the development of LPWAN system solutions and is an early provider of LoRaWAN protocol-based, end-to-end LPWAN solutions. The LoRaWAN technology is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. Because of its long range, high penetration and high sensitivity capabilities, it is a much more cost-effective way for service providers to deploy LoRaWAN network for tracking applications than to use GPRS network

This Smart Parking Sensor is designed to detect empty or occupied parking space based on magnetic field sensing. It communicates with the LoRa Gateway using the standard LoRaWAN protocol for long range connection. It is deployed for public to find a parking space or for government/company to collect parking fee.

Specification

Model Name	WMDS-208
Frequency Band	EU 863~870 MHz / US 902~928 MHz / India 865~867 MHz / AS 923 MHz
Number of Channels	Configurable up to 16 channels / Nodes will select available channel to send data
WAN Protocol	LoRaWAN
Modulation	Based on LoRaWAN
RF Transceiver	SX1276
Transmit RF Power	19 dBm
Receive Sensitivity	Down to -140 dBm
Operating Temperature	-20°C ~ 70°C
Storage Temperature	-40°C ~ 70°C
Sensor	Magnet field detection
Power supply	2.2V ~ 3.3V
Battery	Two (2) Non rechargeable Li-on battery 2400mAh
Antenna Type	Integrated
Ingress Protection	IP67

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Specification (continues)

Dimensions	Dia:93.9 x H:49.9 mm
Weight	184 g
Security	AES 128

SKU Detail

SKU	Country	Channels	Frequency Band (MHz)
WMDS-208	China	16	920~925
WMDS-208X321EU	Europe	8	EU868 (862~870)
WMDS-208X321IS	Israel	8	915~917
WMDS-208X321IN	India	8	865~867
WMDS-208X321JP	Japan	16	920~928
WMDS-208X321TW	Taiwan	16	920~925

