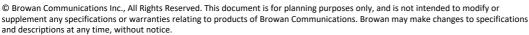# Scooter Tracker

⚠ Features

- Scooter tracker with long range data link and Beidou/GPS tracking
- 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
- Geo Fencing notifications from data center
- Displacement detection alert
- Battery disconnection alert
- Motion/movement detection
- Low battery alert
- Sensors: GPS, 3 axis accelerometer, and temperature sensor
- IP65 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.

This Scooter Tracker is designed for scooter theft prevention. The tracker is equipped with BDS/GPS, 3-axis accelerometer, and temperature sensor. Installation is easy; just connect the scooter tracker to battery (positive and negative) and ACC inside scooter. When scooter is turned on, the tracker starts to scan GPS and send location information to LoRa network periodically.

Specification

Model Name	WSMS-122
Frequency Band	EU 862~870 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	-10ºC ~ 50ºC
Storage Temperature	-20ºC ~ 60ºC
Sensors	GPS, 3 axis accelerometer
Power Supply	12 ~ 36V via scooter battery
Built-in Battery	Rechargeable Li-on 250mAh
Antenna Type	Integrated
Ingress Protection	IP65

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Scooter Tracker

Specification (continues)

Interfaces	3 LED indicators
Dimensions	L:75 x W:40 x 15 mm
Weight	43 g
Security	AES 128

SKU Detail

SKU	Country	Channels	Frequency Band (MHz)
WSMS-122_EU	Europe	8	EU868 (862~870)
WSMS-122_US	USA	16	US915 (902~928)
WSMS-122	China	16	920~925

* Samples are also available for India 865~867 MHz

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