

TST100

SOPHISTICATED SOLUTION FOR ELECTRIC KICK SCOOTER SHARING PLATFORMS

Teltonika is one of the leading IoT companies which covers full product lifecycle, from design to mass production and to further support. More than 8 million trackers were deployed all over the world. E-scooter sharing boom is the next big thing in fleet management. We are always eager to help our clients to achieve the best performance and increase added value for end customers. Our newly designed GNSS/GSM tracker for scooters will allow you to enter and conquer e-scooter sharing market. Our 20-year experience in GPS trackers development will ensure that!



Data reading from the scooters ECU



Firmware and configuration update via FOTA



IP65

Classifies the degree of protection against solid objects and water

9-50V

Wide range of power supply voltage for simpler integration

MANAGEMENT

- Remote lock/unlock
- Set speed limit
- Change configuration

WELL-BUILT

- Waterproof case
- Temperature range -25 +55
- Backup battery

TELEMETRY

- Current battery status
- Mileage
- Error codes

Module	
Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/Bluetooth
GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS
Accuracy	< 3 m
Cellular	Quad-band GSM 850 / 900 / 1800 / 1900 MHz GPRS Multi-Slot Class 12 (up to 240 kbps) GPRS Mobile Station Class B
Power	
Input voltage range	9 - 50 V DC
Internal Back-up battery	170 mAh Li-Ion battery
Interface	
Connector	Proprietary Ninebot 5 pin connector
GNSS & GSM antenna	Internal High Gain
USB	2.0 Micro-USB
SIM	Micro-SIM (eSIM)
Memory	128 MB internal flash memory (220'000 records)
Sensors	Accelerometer
Case rating	IP65
Features	
Power saving options	GPS sleep, Deep Sleep, Ultra Deep Sleep, Online Deep Sleep
Data reading	Current speed, Average speed, Total mileage, Scooter temperature, Built-in battery temperature, Predicted remaining range, Battery percentage, Current operation mode, Error codes, Riding time
Scooter control	Power on/off the engine, Lock/unlock, Lights on/off/blink, Siren on/off/beep, Set speed limit (per mode), Set acceleration speed
Configuration and firmware update	FOTA Web (Cloud based solution), Teltonika Configurator (USB, Bluetooth)
Scenarios	Fall down detection, Jamming Detection, Unplug detection, Auto Geofence, Manual Geofence, Trip start and stop detection
Easy find and theft prevention	Alarm played through a buzzer
Protocols	UDP/TCP/SMS
Data sending	Main, Duplicate and Backup servers
Security	Configuration password, SMS login and password, Authorized GSM numbers list
Certification	
CE (RED), e-Mark, IP65	Pending
Operating environment	
Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months
Bluetooth	
Specification	4.0 + LE