

TST100

ELECTRIC KICK SCOOTER TRACKER^{PLUS}

Millions of users, millions of app downloads and growing engagement – there are number of indicators of booming kick e-scooter sharing worldwide. How to ensure smooth operations and efficiency in this competitive world? We have prepared a perfect solution for you to occupy this niche of micro-Mobility. From Corporate sharing and Free-Floating to Anti-theft applications – we are ready to help our clients to achieve the best performance and increase added value. Our tracker ELECTRIC KICK SCOOTER TRACKER^{PLUS} (TST100) for kick e-scooters will allow you to enter and conquer the market. Our 20-year experience in developing GPS trackers will ensure that!

VARIOUS KICK E-SCOOTER SUPPORT

Applicable to Segway ES2/ES4/Max, Xiaomi M365 and FitRider models

LOCK UNLOCK

Remote lock/unlock feature

CONVENIENT SYSTEM UPDATE

Firmware and configuration update via FOTA

INGRESS PROTECTION

Protection against solid objects and water (IP65)

SMART DATA READING

Data reading from the scooters ECU (UART interface)

SOLID POWER SUPPLY

Wide power supply voltage range for integration variety (8-50 V)



CITY SHARING



CORPORATE SHARING



ANTI-THEFT

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, 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
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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
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