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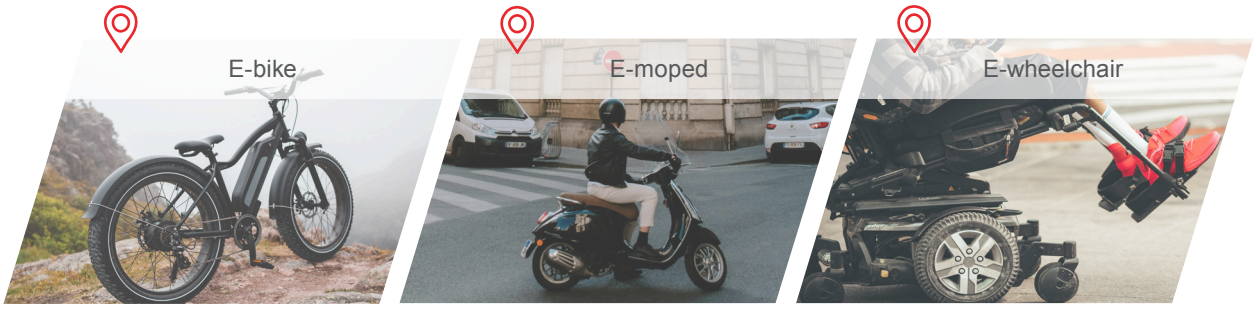
SC350MG

LTE CAT M1/NB2 Compact E-bike GNSS Tracker With BLE 5.2 Supporting

88.5g (3.12oz)	95(L) * 45(W) * 16.2(H) mm 3.74(L) * 1.77(W) * 0.64(H) inch
-20 °C ~ +70 °C -4 °F ~ +158 °F	Operating Voltage: 8 ~ 60V DC Li-Polymer, 3.7V, 500 mAh

- LTE CAT M1/NB2 with 2G fallback
- Water Resistant
- ECU Data Reading
- Wide Voltage DC 8-60V
- Compact Size
- Scheduled Timing Report
- Geo-fences
- Motion Detection
- Low Power Alarm
- OTA Control

The SC350 MG is a water-resistant GNSS tracker designed specifically for E-bikes. The device performs a variety of telematics functions. Its compact size allows for easy, covert installation. SC350MG features a wide voltage range BLE and vibration detection. It also has the ability to collect data or remotely control E-bikes via CAN or UART port, with which it can communicate with vehicle controllers, instruments, and battery management systems, enabling intelligent E-bike management.





SC350MG SPECIFICATIONS

LTE CAT M1/NB2 Compact E-bike GNSS Tracker With BLE 5.2 Supporting

LTE Specifications

Region	Global
Technology	LTE CAT M1/NB2 with 2G fallback
Operating Band	LTE-FDD: Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28 /B66/B85 Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85

GSM Specifications

Frequency	GSM: 850/900/1800/1900

GNSS Specifications

GNSS Type	U-blox All-in-One GNSS Receiver
Sensitivity	Autonomous: -147 dBm Hot Start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m
TTFF (Open Sky)	Cold Start: 30s average Warm Start: 27s average Hot Start: 1s average

General Specifications

Dimensions	95(L) * 45(W) * 16.2(H) mm 3.74(L) * 1.77(W) * 0.64(H) inch
Weight	88.5g (3.12oz)
Backup Battery	Backup Battery: Li-Polymer, 3.7V, 500mAh
Operating Voltage	8 ~ 60V DC
Operating Temperature	-20 °C ~ +70 °C (-4 °F ~ +158 °F)
Water Resistant	IPX5
BLE	Support BLE 5.2 protocol

Interfaces

Digital Input	1 positive trigger for ignition detection
Digital Output	2 x digital outputs
Serial Port	1 x UART Support reading ECU data* ECU type supported: Rhino2 * Need to be customized based on the ECU type
CAN Interface	1 x CAN high & CAN low Support reading ECU data* ECU type supported: Bosch, Bafang * Need to be customized based on the ECU type

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status based on preset time intervals, distance, mileage or a combination of these settings
Geo-fences	Geo-fence alarm and parking alarm, support up to 20 internal geo-fence regions
Low Power Alarm	Alarm when backup battery is low
Special Alarm	Special alarm based on digital/analog inputs
Motion Detection	Motion alarm based on internal 3-axisaccelerometer
Remote Control	OTA control of digital outputs

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