Sharing scooter IOT WD-209

WD-209 is an intelligent GPS centralized control system for sharing E-scooters. This product can be remotely controlled by LTE-CATM and GPRS network and has functions of real-time GPS positioning, Bluetooth communication, vibration detection, anti-theft alarm and so on. WD-209 interacts with data from background system and mobile app and can upload real-time status of E-scooters to the server from wireless network and Bluetooth. It also has 3.5-inch IPS screen which can display speed, battery power in real time. It is also equipped with an external camera, which could take photos.

Functions:

--Real time positioning

--Speed display

--Battery status

--Vibration detection

--Remote control

--External camera, which can take scene photos

--Lamp control

--Power off alarm

-- Wireless communication networks

-- External electricity detection

-- Lock motor

-- Serial communication

-- Intelligent voice

Specifications:

Unity machine parameters			
Dimension	Length, width and height:(109.78±0.15)mm ×	**Input voltage range**	12V-72V

	(81±0.15)mm × (31.97± 0.15)mm		
Waterproof level	IP65	**Internal battery**	Rechargeable lithium battery：3.7V, 600mAh
Sheathing material	ABS+PC,V0 fire protection grade	**Working temperature**	-20 ℃ ~ +70 ℃
Working humidity	20 ~ 95%	**SIM Card**	Dimensions: Medium card (Micro-SIM card)
4G module performance			
Frequency range	LTE-CAT M1/CAT NB1; EGPRS 850/900/1800/1900MHz	**Maximum transmit power**	23dBm
sensitivity	-107dBm@Cat M1; -113dBm@Cat NB1	**Current**	Standby:15mA; Sleep:1.2mA; network connection: 223 mA(average)

GPS performance			
Positioning	Support GPS,GLONASS,Beidou	Tracking sensitivity	< -157dBm
Starting time	Cold start 31s, hot start 2.7s	Positioning accuracy	2.5m
Speed accuracy	0.3m/s	AGPS	Support
Bluetooth performance			
Bluetooth version	BLE4.0	Receiving sensitivity	-90dBm
Maximum receiving distance	30 m, open area	Loading receiving distance	10-20m,depending on installation environment

Installation:

The device connects the controller, headlight and horn according to the corresponding interface. When the E-scooter battery has electricity, the device will automatically turn on. After the device turn on,the screen display startup interface.The screen goes out after 5 seconds when no one is using it. Inside the device, there are 3 LED indicator lights to

indicate whether the terminal function is normal. Because the indicator lamp is inside the device, it must be removed to see,

easy to debug and maintain.