

## Smart Electric Vehicle Product WD-280



WD-280 is a 4G smart device for the e-bikes with GPS positioning function, it supports UART and Bluetooth communication. Through it, the users can control their e-bike by 4G LTE-CAT1 or 433M remote controller. Besides, the device supports GPS real time positioning, vibration detection, anti-theft alarm and so on. Through LTE and Bluetooth, WD-280 interacts with the platform and APP to control the e-bike, and upload the real-time status of the e-bike to the server.

### **Functions:**

Multiple positioning

Unlock the e-bike without keys

Control the e-bike via Bluetooth

Real-time transmission

Vibration detection

Wheel rotation detection

OTA

Start the e-bike by button

Over-speed alarm

Detect the temperature

Detect the external power

Alarm/disarm

Detect the ACC

Lock the motor

Buzzer

Saddle lock

433M remote controller

Communicate with controller

**Advantages:**

V0 fire-proof

IP65 waterproof

Independent research and development and production

Quality certification system

Stable performance

OTA

**Parameters:**

Size	(78.7±0.50)mm × (59.6±0.50)mm × (28.0±0.50)mm
Waterproof	IP65

Material of the shell	PC
Fire-proof	V0
Working temperature	-20 °C ~ +70 °C
Working humidity	20 ~ 95%

### Electrical performance

Range of input voltage	Wide voltage input is supported:30V-72V(Battery voltage)
Inner battery	180mAh@3.7V
SIM card	Micro-SIM card

### 4G-LTE performance

Frequency	LTE FDD B1/3/5/8; LTE TDD B34/38/39/40/41
Maximum Power	1W
LBS	Support, positioning accuracy of 200 meters (related to base station density)

### GPS performance

Positioning	Support GPS positioning and Beidou positioning
Tracking	< -162dBm

sensitivity	
Start time	Cold start:35S,Hot start: 2S
Accuracy of positioning	10 meters
Accuracy of speed	0.3 meters/second
AGPS	Support

### **Bluetooth performance**

Bluetooth version	BLE5.0
Receiving sensitivity	-90dBm
Maximum receiving distance	20 meters,open area
Receiving distance inside the e-bike	10-20 meters,depending on the installation environment

### **433M performance**

Center	433.92MHz
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frequency point	
Receiving sensitivity	-110dBm
Maximum receiving distance	30meters,open area