

QR Code System Automatic Unlocking with GPS Tracker in E-bikes

Main Features of Ebikes Smart Lock

1. Get the real-time precise position of electric bikes and bikes.
2. Get vehicles status and report all of needed data to ebikes ride share companies, different data can be showed on operators APP and users APP.
3. Smart bike lock integrates with the bike sharing app very well.
4. It's auto billing and mileage tracking at any time.

Through the smart bike locks, fleet manufacturers or ride share companies and operators can real-time monitor and tracker their ebikes fleet via backend. All is clear and beneficial.

Communication Protocol of this Smart Bike Lock

1. Bluetooth: Bluetooth 4.0
2. Wireless: TCP
3. CAN protocol: smart integration with Ebikes controller, for controller switch control and get ebikes battery life information

Unlock and Lock

1. Users can remotely unlock the smart bike lock when they want to rent the ebikes for their journey and riding.
2. After the riding, users would lock it by hand.

We use a manual locking method to ensure bikes and e-bikes are securely and accurately locked for maximum safety.

Built-in IoT smart bike lock

Real-time monitoring bikes E-bikes fleet



QR system with GPS tracker

Bikes Ride Share Service



Zinc alloy shell

Durable, corrosion-resistant, and eco-friendly materials.



8mm steel rim

high strength, anti-pry, and anti-cut.



Large built-in battery

8000mAh large battery, standby time up to 90 days.



App remote unlock

Exclusive app, one-touch unlock.



It uses GPS for location tracking and remote speed control, enforcing parking within geofenced areas. IoT sensors detect and alert on issues, while the backend monitors vehicle status and battery levels in real-time. This electric bike system

aids in vehicle management, reduces labor costs, and ensures vehicle security.

Personal/Shared/Long-term Rental Unlock Process

Personal



1. Turn on
Bluetooth

2. Pairing
horseshoe lock

3. Tap "Unlock"

4. Unlock
successful

Shared



1. Select Vehicle

2. Scan and
unlock

3. Server executes
command

4. Unlock
successful

Long-term Rental



1. Select Vehicle

2. Select rental
plan and pay

3. Server executes
command

4. Unlock
successful

Regulated Parking Urban Management

Smart bike lock works with parking beacon
for standard parking.



For ride share service operators For fleet manufacturers



City cycling



School



Scenic Area



Residential Area

Certified by authoritative institutions, ensuring quality.



Smart Rental Ebike

EBIKE SOLUTION



Cable Lock



Helmet Lock



Battery Lock