

Automatic Operations Cost-saving Electric Scooter Charging Station

mni IOT



Wireless Charging Stations for Smart Mobility

WIRELESS CHARGING STATION



Smart Charging Detection

More Efficient, More Secure



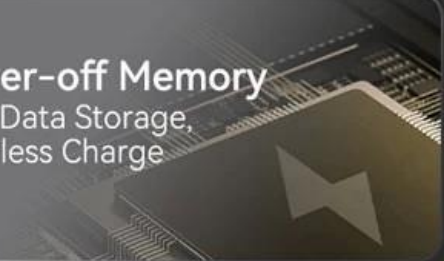
Auto Power Cut-off When Full

Prevent Overcharging,
Extend Life



Power-off Memory

Auto Data Storage,
Seamless Charge



One Device, Dual Control

Two Cars, Simultaneous Charging



Audio Broadcast

Real-time Charging Status



OTA Remote Upgrade

App Remote Fix/Upgrade



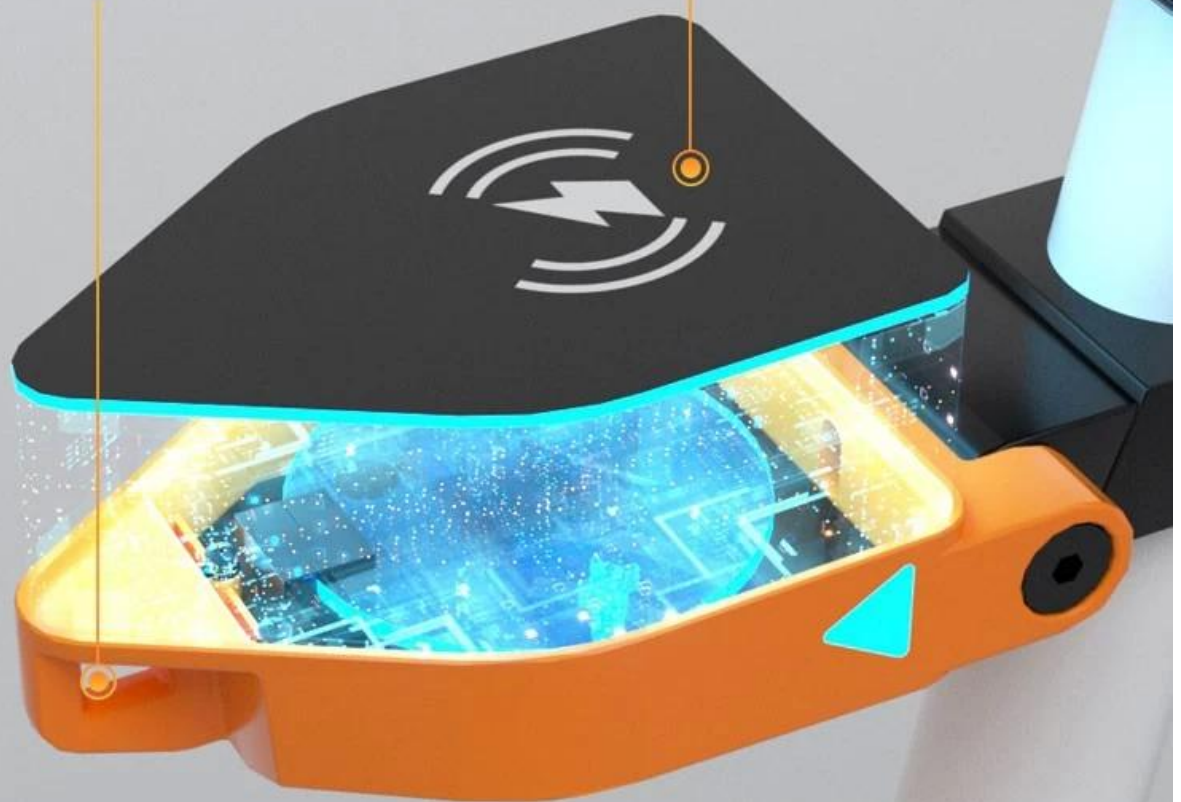
Wireless charging RX-Module



Protection: Overcurrent, Overvoltage, Overtemperature
RX Output Voltage: $42V \pm 0.2V$
RX Output Current: 2.5A

Bottom shell hardware
Face shell plastic

Lock hole



Workflows



1. Users scan the vehicle's IoT QR code for the server to send an unlock command.



2. The vehicle's IoT wirelessly unlocks the vehicle via the charging station's RX upon receiving the command.



3. Upon IoT unlock command, station releases dock, disables charging, reports status to server.



4. User retrieves vehicle, begins riding.



5. After riding, user returns vehicle to station. Upon successful ID, vehicle locks and charging starts.