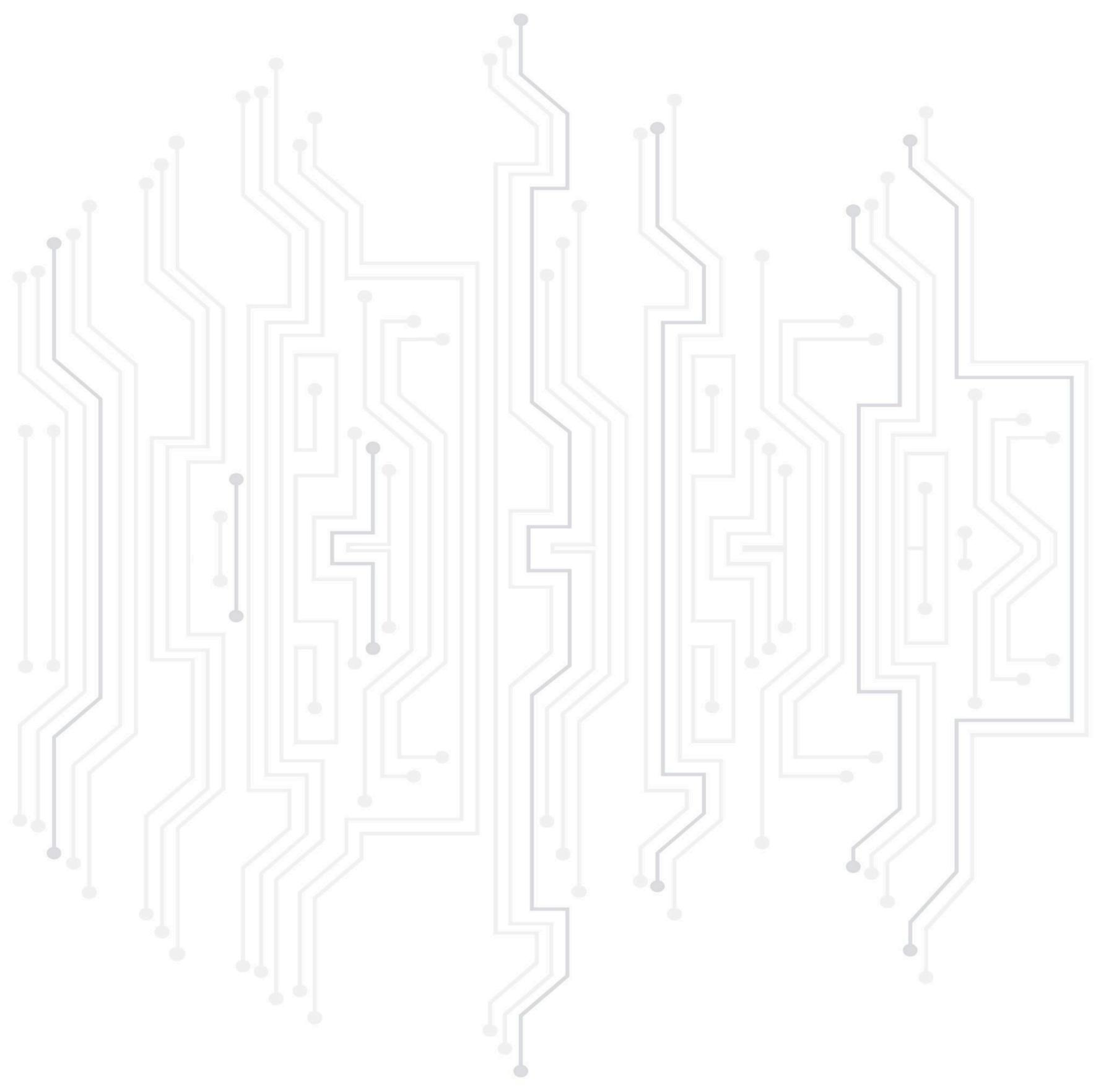




Axons: Driving Connected Mobility With Intelligence

Seamlessly integrate and manage your devices with Axons — a plug-and-play IoT platform delivering key-less access, live tracking, geofencing, predictive maintenance, and data-driven control at scale with many other useful features.

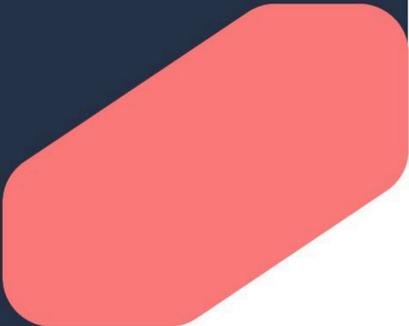


Welcome to **Axons**

Axons is an IoT solutions provider,
delivering smart devices and
software solutions.



We specialize in creating
innovative IoT products to
enhance operational efficiency
and connectivity.



About US

Connecting devices for smarter solutions.



Plug - N - Play

Simple installation with no complex setup needed.



L1/L5 GPS Bands

Advanced GPS for precise location tracking.



AI - Powered

Intelligent features for enhanced performance.



Global Supported

Reliable connectivity worldwide.



Compact and Rugged Design

Durable, space-saving and built to last.



Aerial Vehicles

Transforming aviation with IoT-enabled drones for real-time tracking, enhanced safety, and optimized operations.



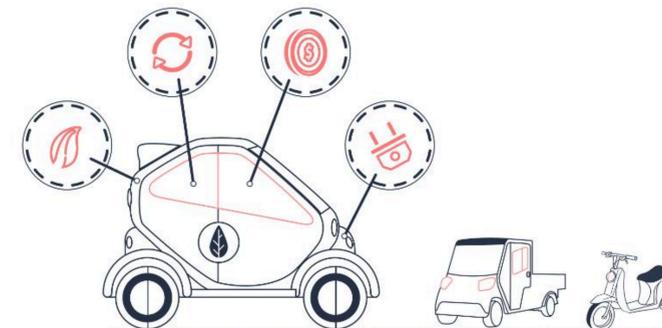
Micro Mobility

Revolutionizing transportation with smart IoT solutions for electric scooters, bikes, and other micro-mobility vehicles, improving efficiency and user experience.



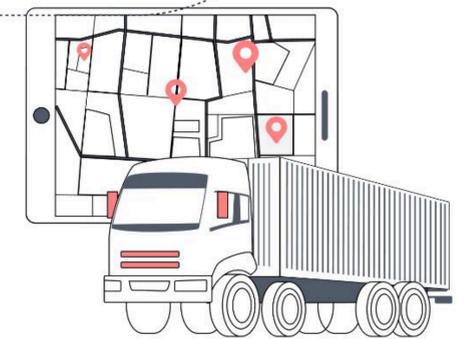
Light Electric Vehicle

Transforming transportation with IoT for Light Electric Vehicles: smart connectivity, energy efficiency, and sustainable urban mobility for a greener future.



Heavy Machinery

Improving heavy machinery performance with IoT for real-time monitoring, predictive maintenance, and operational safety. Enhances asset utilization and reduces downtime for cost-effective industrial operations.



Axons Overview



Micro-Controller

Low-power microcontroller for efficient operation.



Memory

16MB onboard memory for data processing.



Battery Backup

4000mAh (3.7V Li-Po), up to 15 hours.



Operating Temperature

-20°C to +80°C for all-weather performance.



Voltage Input Range

12V-80V wide voltage support.



Current Draw

120 mA (nominal), up to 2 A peak.

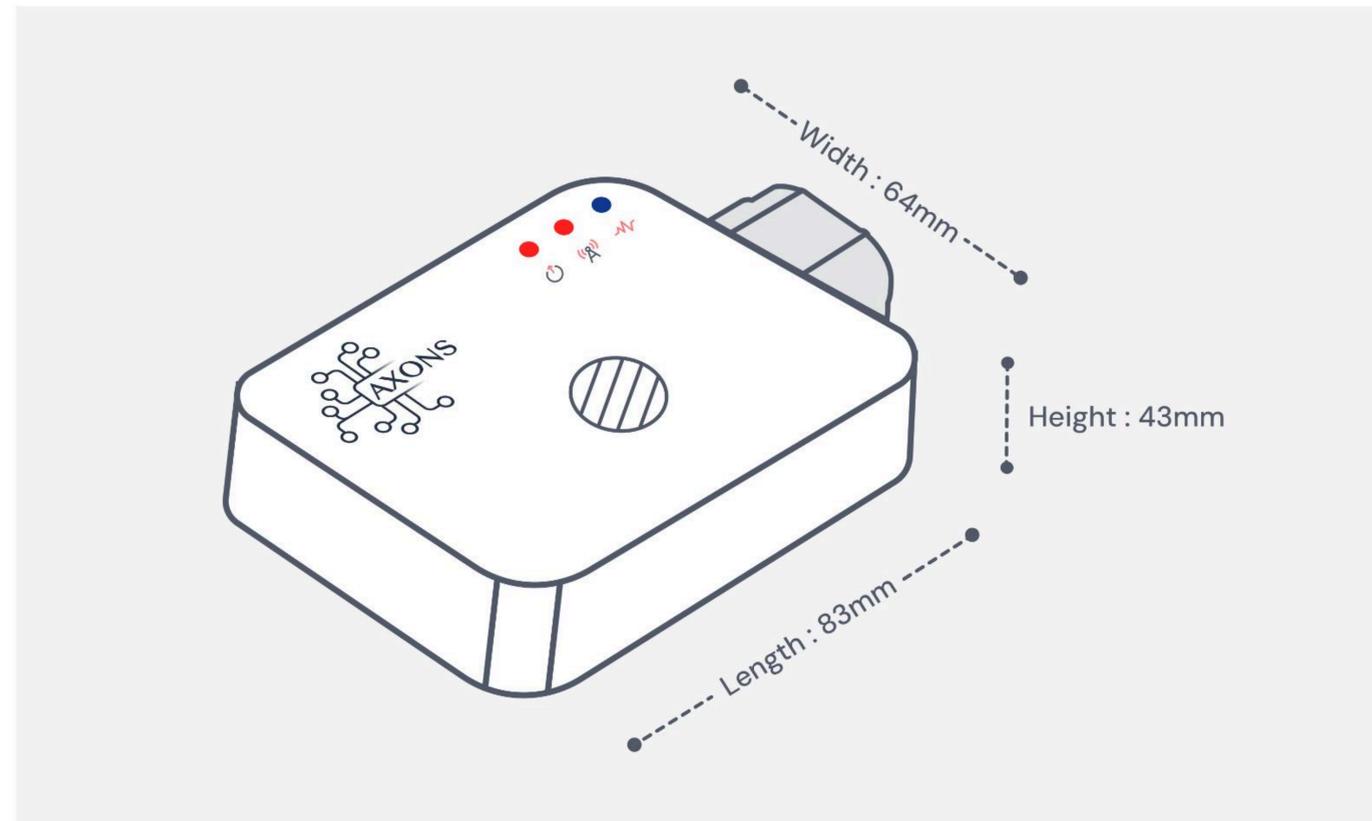


Wi-Fi

IEEE 802.11 b/g/n @ 2.4GHz, up to 150 Mbps.

Axons Mini

Axons Mini combines precision tracking with robust connectivity—featuring CAN, dual-band GPS, GSM, BLE, WiFi, and AI control. It enables real-time diagnostics, keyless access, and battery analytics for smarter, scalable fleet operations.



SIM Type

Micro SIM support.



GPS Technology

L1/L5, supports BeiDou, GPS, GLONASS, Galileo, QZSS. Position Accuracy: 5 meters.



Connectivity Modes

HTTP, HTTPS, MQTT, TCP/IP, UDP.



GSM/Cellular Support

2G/3G/4G LTE (Cat 1), FDD/TDD, GSM, EDGE.



Communication Interfaces

UART, CAN Bus configurable.



Bluetooth (BLE 5.0)

20 dBm TX Power, Mesh support.



Multifunctional I/O pins

Supports various I/O functions for flexible integration.

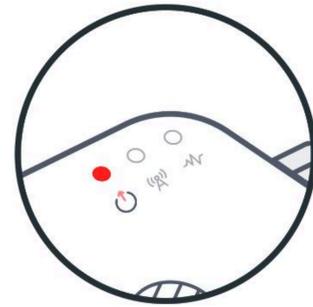
LED Indicator Guide



Step 01

Power Indicator: Red

Displays the device's power status. Illuminates when the device is successfully connected to the vehicle's power supply.

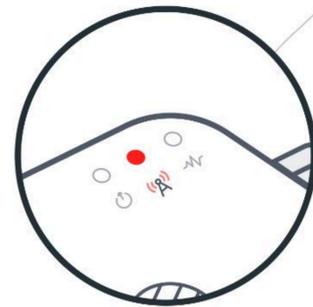


Step 02

Network Indicator: Red

Continuous Blinking: Indicates an active internet connection.

Slow Blinking: Signals that the device is searching for a network.



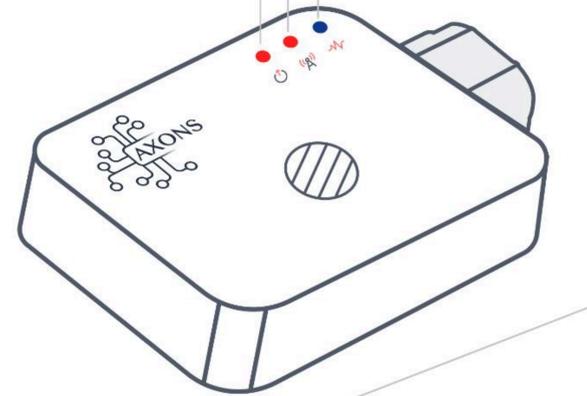
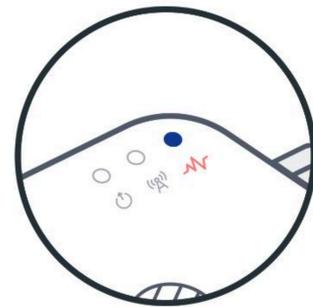
Step 03

Pulse Indicator

Blue: Pulse sent to server (normal)

Red: Disconnecting, reconnecting

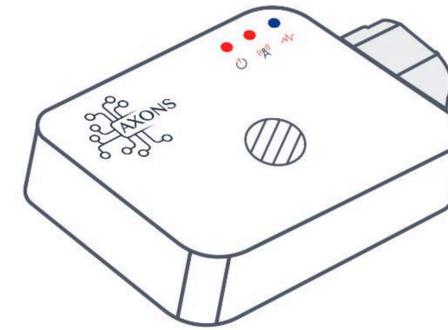
Green: Connected, GPS not accessible



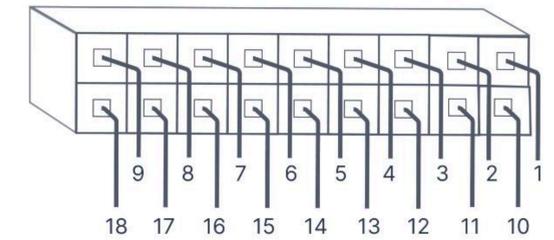
Pin Diagram

Axons Mini

The Mini pin diagram displays the configuration and role of each connector pin, enabling power, data transfer, and seamless integration for reliable operation.



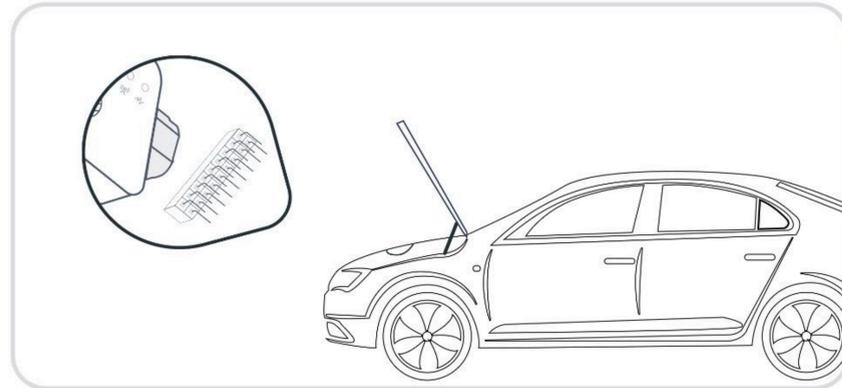
+



Connector PIN Representation

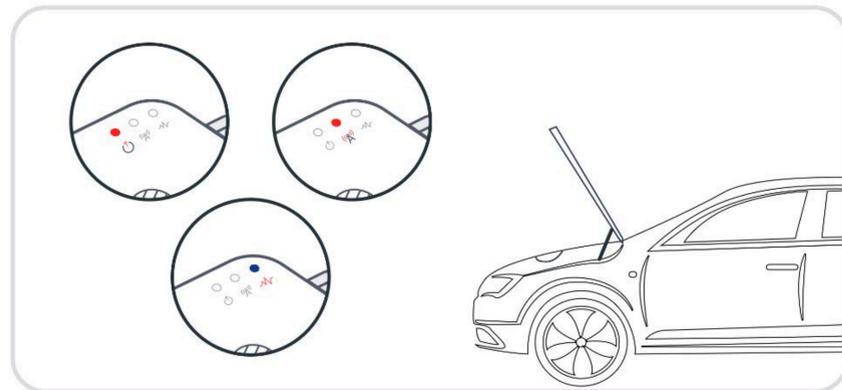
1. I2C_SCL	10. I2C_SDA
2. 5V	11. IGN_IN2
3. GND	12. IGN_OUT2
4. USB D-	13. RESET
5. USB D+	14. SERIAL_RX
6. GND	15. GND
7. VCC	16. SERIAL_TX
8. CAN_LOW	17. IGN_OUT1
9. CAN_HIGH	18. IGN_IN1

Axons Four Wheeler Installation



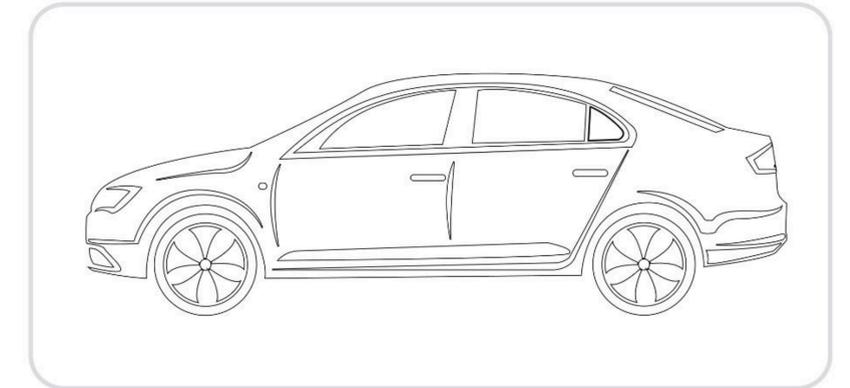
Connector Attached

Once the vehicle connector is attached to the IoT device connector, the device will start functioning, initiating the connection process.



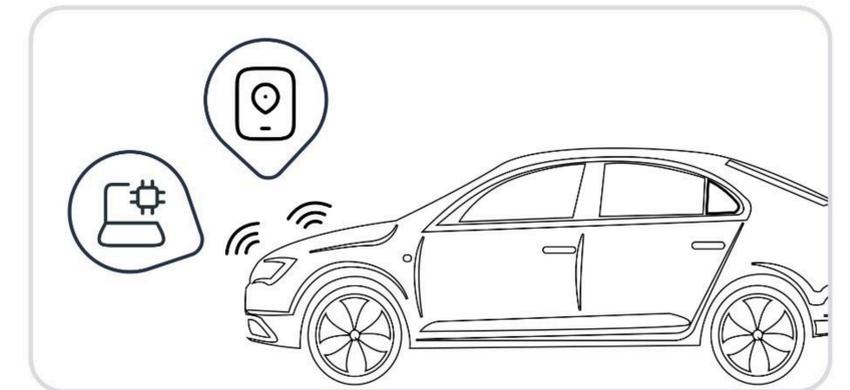
LED Indications

Check the LED indicators to confirm that power, internet, and pulse signals are working, ensuring the device is properly connected.



Ready to Use

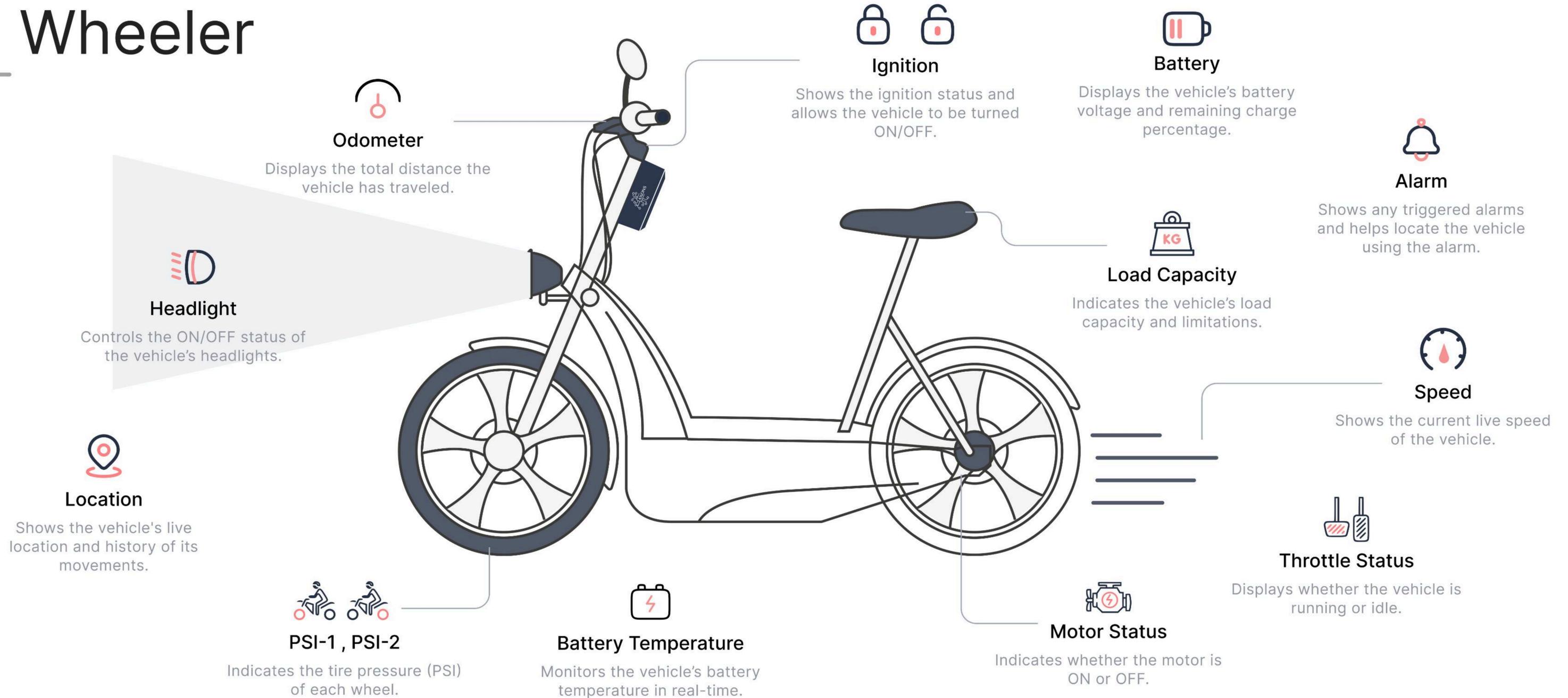
Once the device is properly installed, confirm it's ready for use with the vehicle's system, ensuring smooth integration and operation.



Connection Verification

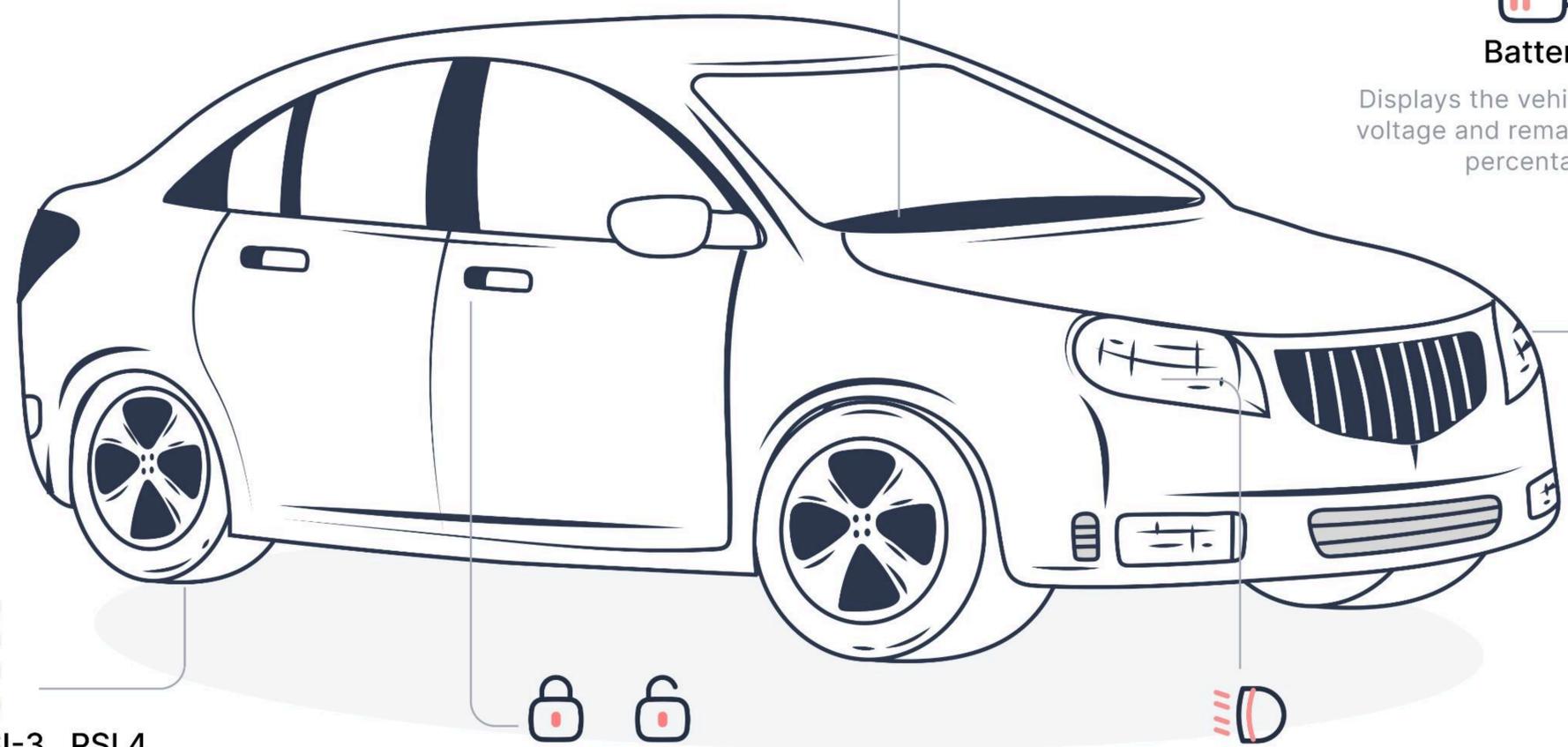
Connect the IoT device with the mobile app and dashboard to verify successful integration and ensure data synchronization is functioning properly.

Vehicle Status Overview - Two Wheeler



Note : These are the minimum things we can show if vehicle provides.

Vehicle Status Overview - Four Wheeler



Odometer

Displays the total distance the vehicle has traveled.



Location

Shows the vehicle's live location and history of its movements.



PSI-1 , PSI-2 , PSI-3 , PSI 4

Indicates the tire pressure (PSI) of each wheel.



Battery Temperature

Monitors the vehicle's battery temperature in real-time.



Speed

Shows the current live speed of the vehicle.



Throttle Status

Displays whether the vehicle is running or idle.



Battery

Displays the vehicle's battery voltage and remaining charge percentage.



Alarm

Shows any triggered alarms and helps locate the vehicle using the alarm.



Ignition

Shows the ignition status and allows the vehicle to be turned ON/OFF.



Headlight

Controls the ON/OFF status of the vehicle's headlights.

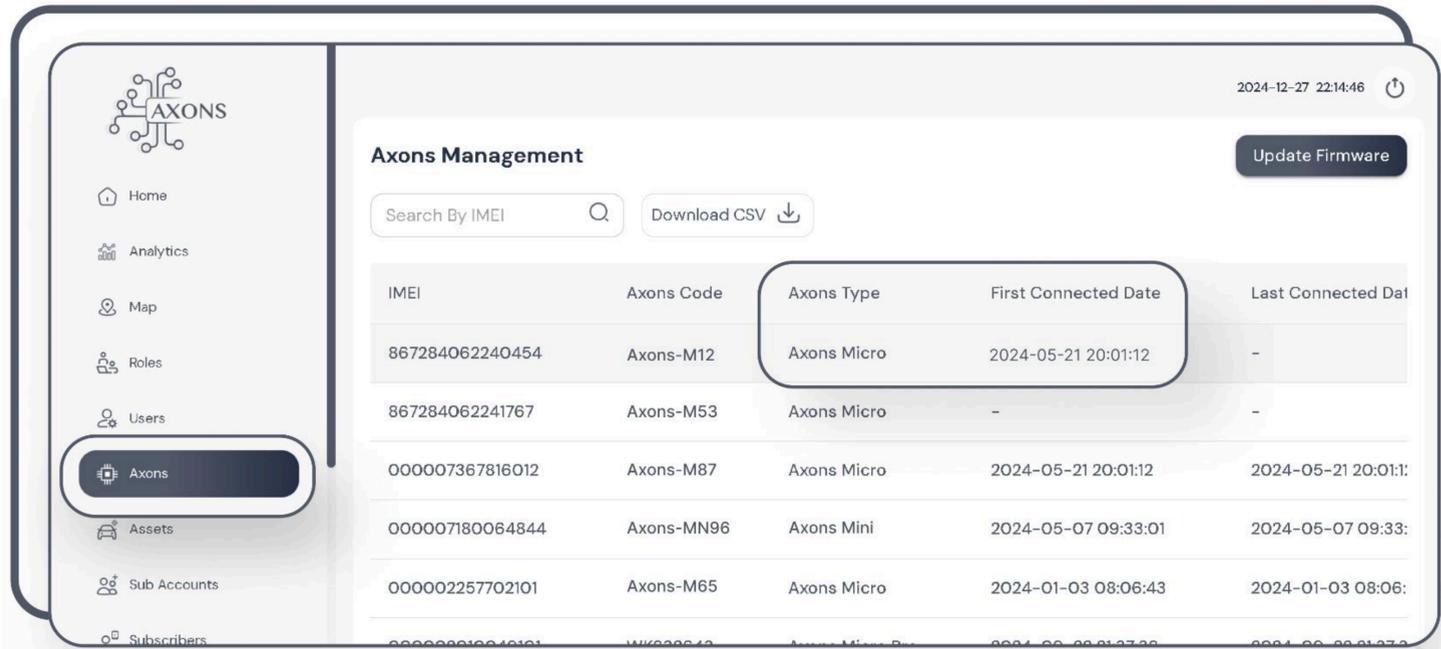


Motor Status

Indicates whether the motor is ON or OFF.

Note : These are the minimum things we can show if vehicle provides.

Axons Dashboard Connection



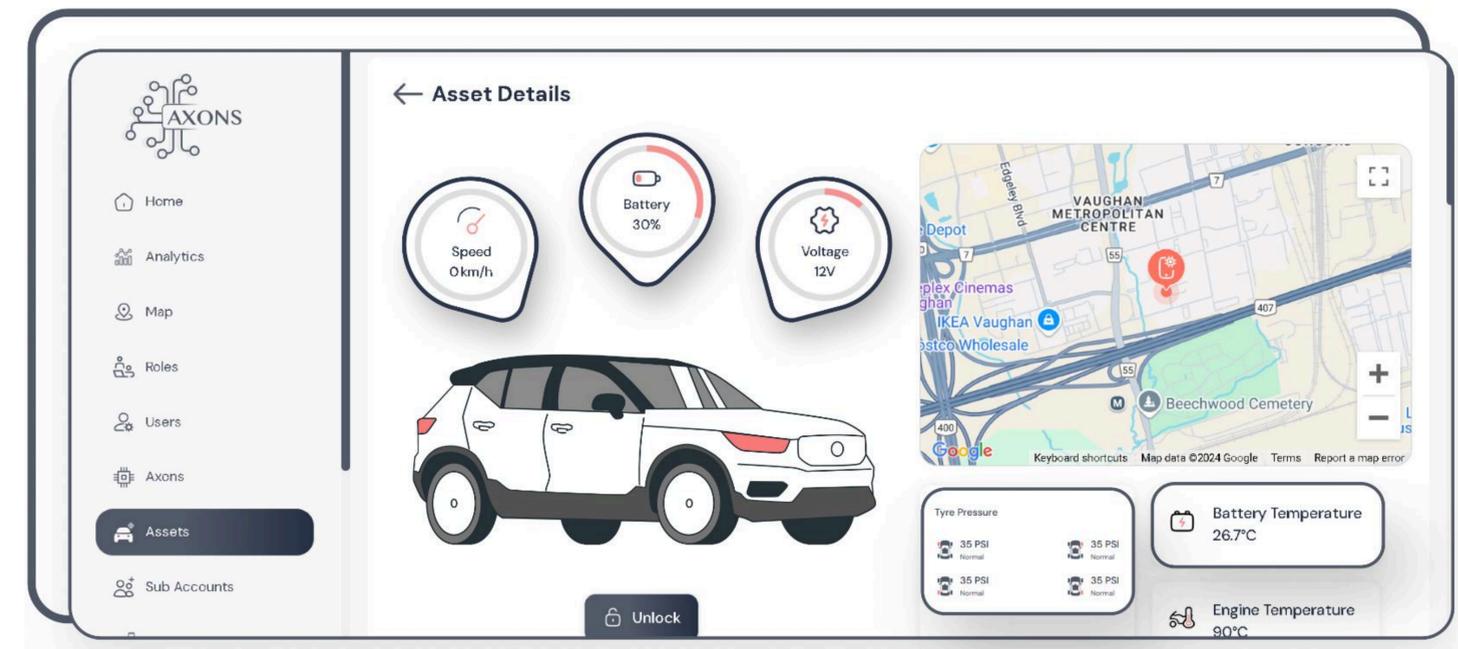
The screenshot shows the Axons Management dashboard. On the left is a navigation menu with options: Home, Analytics, Map, Roles, Users, Axons (highlighted), Assets, Sub Accounts, and Subscribers. The main content area is titled "Axons Management" and includes a search bar for IMEI, a "Download CSV" button, and an "Update Firmware" button. A table displays the following data:

IMEI	Axons Code	Axons Type	First Connected Date	Last Connected Date
867284062240454	Axons-M12	Axons Micro	2024-05-21 20:01:12	-
867284062241767	Axons-M53	Axons Micro	-	-
000007367816012	Axons-M87	Axons Micro	2024-05-21 20:01:12	2024-05-21 20:01:12
000007180064844	Axons-MN96	Axons Mini	2024-05-07 09:33:01	2024-05-07 09:33:01
000002257702101	Axons-M65	Axons Micro	2024-01-03 08:06:43	2024-01-03 08:06:43

Axons Management

The Axons Management page displays the device's connection status. Initially, when the device is visible but not yet connected to a vehicle, it will show the first and last connection timestamp as blank.

Once the device is connected to a vehicle, the **"First Connected Date"** will be updated, indicating successful integration. This page provides a clear overview of whether a vehicle is connected to the IoT device, allowing users to monitor the device's status in real time.



The screenshot shows the Axons Asset Details dashboard. On the left is a navigation menu with options: Home, Analytics, Map, Roles, Users, Axons (highlighted), Assets, and Sub Accounts. The main content area is titled "Asset Details" and includes a car illustration, a "Speed 0 km/h" gauge, a "Battery 30%" gauge, and a "Voltage 12V" gauge. Below the car is an "Unlock" button. To the right is a map showing the vehicle's location near Vaughan Metropolitan Centre. At the bottom right, there are gauges for "Tyre Pressure" (35 PSI Normal) and "Battery Temperature 26.7°C".

Asset Details

The Asset Details page provides comprehensive information about the connected vehicle, including key metrics such as speed, battery status, voltage, tire pressure (PSI), battery temperature, and the vehicle's live location.

Additionally, it includes detailed trip logs and informative analytics, such as graphs, to offer deeper insights into the vehicle's performance and usage. This page serves as a central hub for monitoring and understanding the vehicle's status, helping users optimize its operation.



Revolutionizing IoT by connecting devices, data, and people for effortless communication.

 <https://www.linkedin.com/company/axonsmobility>

 <https://axonsmobility.com/>
