



# EV Management Platform

Maximizing Energy. Minimizing Risk.



EV-Grade Hardware Innovation and Firmware Engineering.

Seamless CAN-Based Vehicle Integration.

Custom automotive OEM solutions and Industrial IoT Gateway Integration.

Tailored OEM Solutions for Scalable EV Platforms.

# EV INTELLIGENCE PLATFORM

Harnessing CAN Data for Predictive Performance and Safety.



| EV SYSTEM MANAGEMENT                  | ANALYTICS & CONTROL   |
|---------------------------------------|---|
| Battery State Monitoring (BMS)        | Real-time tracking of State of Charge (SoC) and State of Health (SoH) using BMS CAN data.   |
| Cell-Level Insights                   | Individual cell voltage and temperature monitoring with voltage imbalance detection and alerts.   |
| Firmware Updates (FOTA)               | Firmware Over The Air (FOTA) capability for multiple ECUs via UDS protocol.   |
| Configuration OTA                     | Supported via GPRS, SMS, and BLE for remote setup, diagnostics, and reconfiguration.  |
| Remote Diagnostics & Fault Management | Fault code detection from CAN/OBD data, ECU monitoring, and alerts for charge/discharge overcurrent, temperature, cell imbalance, motor, and controller faults. |
| Efficiency Tracking                   | Tracks energy consumption, regeneration ratio, and performance efficiency trends.   |
| Sleep Mode / Power Management         | Intelligent sleep with ignition or CAN wake-up to minimize power draw and maintain system readiness.  |
| Scalability                           | Cloud IoT platform architecture scalable for millions of connected devices.   |
| Protocol Support                      | Supports secure communication protocols – TCP/IP, HTTP(S), MQTT(S), and SMS.  |

## HARDWARE SPECIFICATIONS

(EV-Compatible Device – Discovery 4G Advanced for Intelligent Fleet and OEM Applications)

| PARAMETER                | DISCOVERY 4G   |
|--------------------------|--|
| Operating Voltage        | 9V – 90V DC  |
| Cellular Connectivity    | LTE CAT 1 with 4G LTE & 2G fallback                                      |
| GNSS Technology          | LTE CAT 1 Module with internal GNSS                                      |
| CAN Interface            | 1× CAN 2.0B (Supports J1939 / UDS)                                       |
| Communication Interfaces | 1× RS485, 1× 1-Wire  |
| Digital & Analog I/Os    | 3× Digital Inputs (Multiplexed with AI, DO), 3× Digital Outputs          |
| Bluetooth (BLE 4.2)      | Supported  |
| Accelerometer            | 3D Accelerometer (Harsh braking, Harsh acceleration, Rash Turning, Tilt) |
| Ingress Protection       | Available in IP54 and IP67 Enclosures                                    |
| Operating Temperature    | –20°C to +80°C (without battery)<br>–20°C to +60°C (with battery)        |
| SIM Options              | 1× Micro SIM / 1× eSIM (Optional)  |
| Connector Interface      | 12-pin Automotive-grade Sealed   |

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