Product Description

Astra 1.0 is a low-cost, high performance and customizable vehicle control unit for Electric and Hybrid vehicles. This unit can also be used for Telematic applications.

It monitors and controls the I/O's of the vehicle like Head lamp, Indicators, Engine modes, Battery, Display, Brake status and sensors.

This provides the most efficient vehicle IoT that can monitor the live location, Battery SoC, Alert Notification for theft and accidents, Etc.

VCU also provides Incoming Call notification to the User, Vehicle positioning details.

The VCU has robust protection for Over voltage, short circuit, over current, reverse voltage, Over temperature and optional tamper proof.

This device is compliant to Automotive standards.

ASTRA 1.0
Vehicle Control Unit

- LTE Cat 1 Module
  - Supports TCP/IP, FTP, MQTT, HTTP protocols
  - Supports Embedded eSIM / Micro SIM
- Supports GPS-SBAS, GLONASS, BeiDou
  - Optional External antenna for Navigation
- Supports BLE 5.0
- Operating system: FreeRTOS
- Firmware upgrade through CAN and OTA
- Supports Cloud and android application for vehicle information monitoring.

Features

- 32-bit Arm Cortex-M4 Core
- 12 Digital inputs and 13 Digital outputs
- Supports CAN 2.0 Interface
- Supports Display interface using CAN or UART
- In-Built Inertial measurement unit
- Operating range of 5V to 15V (expandable up to 90V)
- IP67 enclosure
- Weight-350gms

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