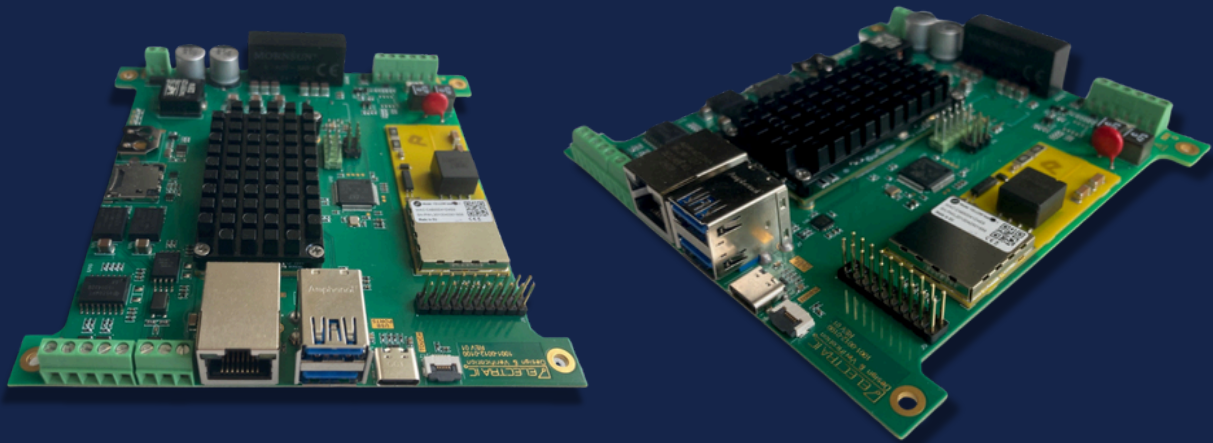


EV/EVSE Charge Controller



Within the electric vehicle charging ecosystem, it performs the functions of charging control and communication over the power line (PLC).

Thanks to its robust hardware design, it easily supports the latest charging standards and adapts to many charging systems with flexible communication options.

APPLICATIONS

- **Charging stations, wallboxes and EVs**
- **Proof of Concept R&D Projects**
- **Other EVSE/EV Charging applications like power electronics, safety**

Features

TECHNICAL FEATURES

- NXP i.MX 8M Plus processor
- 4 GB LPDDR4
- 16 GB eMMC
- Dimension of 120mm x 120mm x 12.5mm
- Wide voltage input range from 10VDC to 32VDC
- Industrial operating temperature from -40°C to +85°C
- EMI filter and surge protection
- Isolated CAN 2.0 serial interface for the vehicle
- Full Duplex isolated RS422/RS485 interface
- Ethernet interface (10/100/1000 Mbps)
- USB 2.0 and USB 3.0 interface
- RTC battery back-up circuit
- uSD card slot (SDR104)
- 1xUART, 1xI2C, 1xSPI and 4xGPIO
- PLC terminal (CP, PP, PE, L and N)
- For connectivity WiFi - Bluetooth options
- Extension board connector for custom applications

FEATURES

- Charging stack (SECC)
- ISO 15118, DIN 70121 communication standards supported
- Compatible with CCS Charging standards (IEC 61851)
- AC and DC charging supported.
- Wide user interface support and extensions (HDMI, HMI, RCD, Interlock)
- Users can use their custom codes on board for development or simulation purposes



BLOCK DIAGRAM

