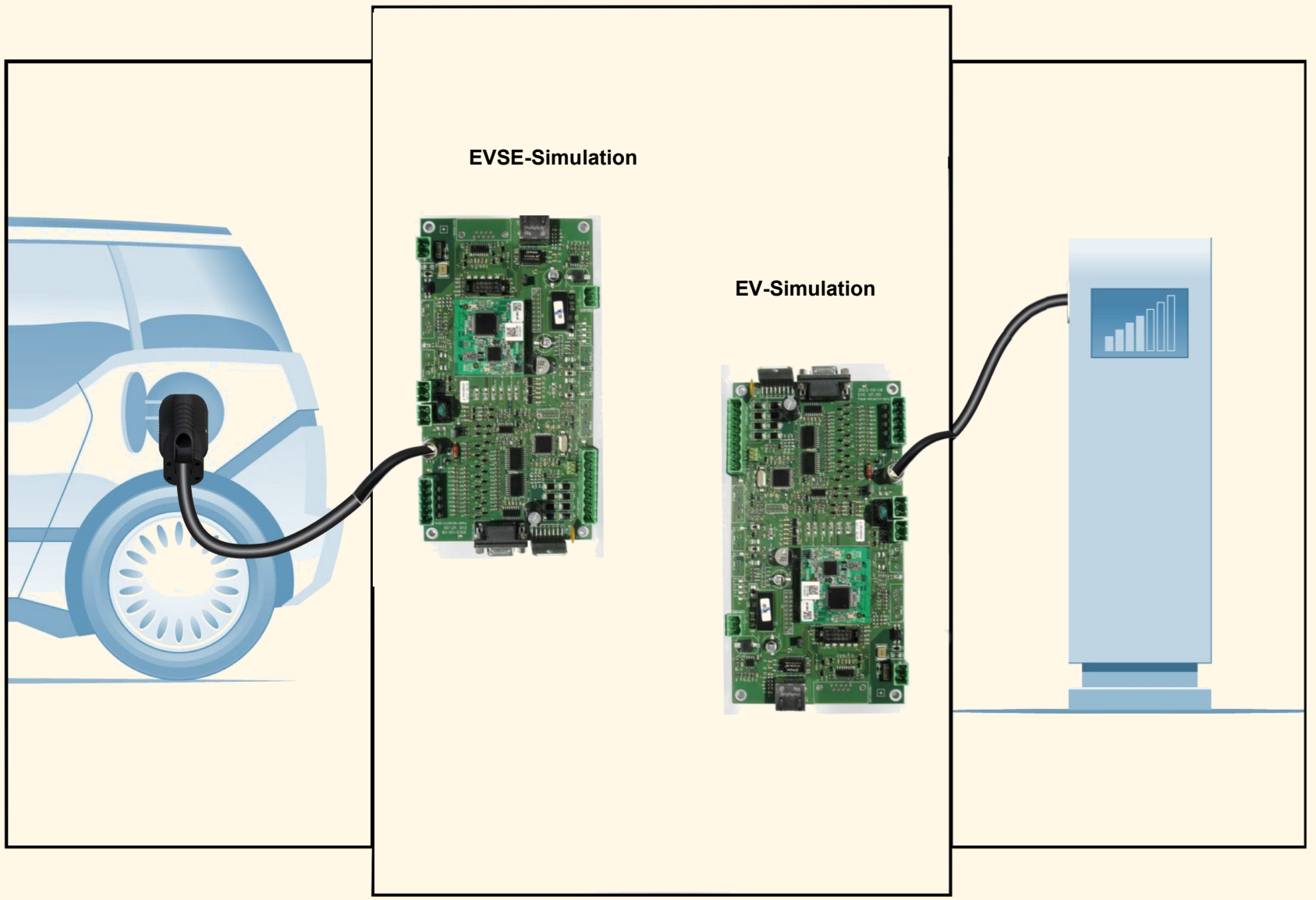
EVAcharge LE,

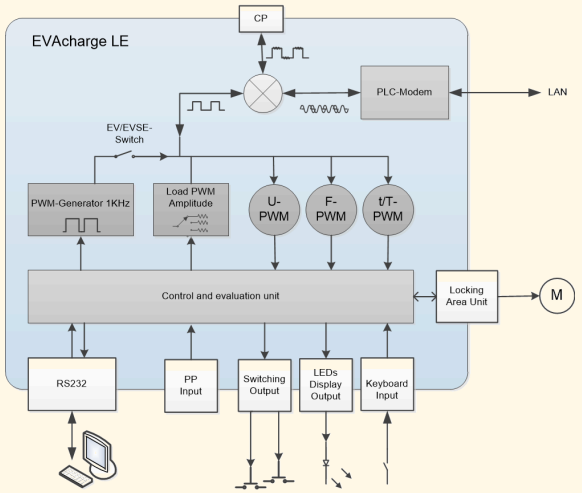
The universal tool for simulating and checking ISO15118 communication protocols and for development of AC charging stations (EVSE) according to established standards.



The EVAcharge LE is a simulation environment for communication protocols for verification of electric vehicles (EV) and charging stations (EVSE).

In EVAcharge LE, the current versions of the communication protocols are implemented.

Upcoming changes are to follow through regular software updates.



Fields of application:

EVAcharge LE represents an ideal environment for the development of system know-how in relation to the current state of standardization in accordance with ISO15118.

Automobile manufacturers can use the system to simulate typical EVSE behavior and check early protocol implementations on EV. By simulating typical EV charging stations systems manufacturers can verify EVSE application.

Entire charging systems can be built with EVAcharge LE

Well-known manufacturers of charging stations installed the EVAcharge LE into their systems.

FEATURES

- Emulation of communication protocols between EV and EVSE systems via a real PLC / PWM Link
- PLC communication HomePlug GreenPhy (QCA 7000 in accordance with ISO15118, IEC 61851, DIN 70121)
- PWM generation: frequency / pulse width adjustable (+- 10% in accordance with SAE J1772 1kHz / ISO 61851-1)
- Measurement of PWM: Frequency and pulse width
- Generation of the CP-voltage + /-12V
- Measurement of the CP-voltage + U and-U
- Setting the CP-resistance between 3 - 12V
- Measurement of PP-resistance
- Controling of two motors via an H-bridge (per 12V 1.8A fused)
- Reading out of connected limit switches
- Vehicle Interface TCP / IP ISO 15118-2 (optional for a Windows OS)
- Software stack according to ISO 15118 standard (optional for a Windows OS)
- Operation of the system in accordance to SAE J1772, IEC 61851-1 via RS232

Technical Data	
Device Power Supply	9-15 V DC 200mA
Power consumption	approx. 3 W
Operating temperature	0 to 50 °C
Operating temperature	-10 to 60 °C
Relative Humidity	15% - 70% (non condensing)
Cooling	Passiv
Standardize	ISO/IEC 15118, ISO/IEC 61851, IEC 62196, DIN 70121
boards connections	Sub-D 9—RS232 5 pol Stiftwanne — LED-Display BNC-Socket — CP 2 pol Socket — CP 2 pol Socket — PP RJ45 — LAN 2 pol Socket — UBatt 10 pol Socket — Modem-LEDs 8 pol Socket — Interlock engine
Dimension	b: 19 cm; h: 2 cm; t: 10 cm
Weight	approx. 140g