chargebyte GmbH

Charge Control P

Introduction

Charge Control P is designed for the prototyping and development of electric vehicle CSS compliant charging controllers. Our Linux-based software allows to build your own code top-layer. It includes PWM generation on Control Pilot line, and also a HomePlug Green PHY integration and thus Powerline communication via Control Pilot for High-Level charging communication. The Charge Control P firmware is powered by an embedded Linux operating system. Customers can use a CAN interface to interact with the firmware. The open system offers customers the possibility to extend the Charge Control P firmware and even run customer's own software component in parallel to the charging stack.

Key Features

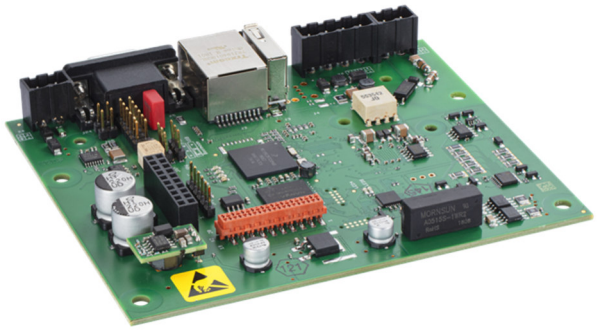
- Dual mode ISO 15118/ DIN 70121 SW Stack (DC)
- Ready for Plug and Charge
- CAN Interface
- Supported Standards: ISO 15118, DIN 70121, IEC 61851, Ethernet (IEEE 802.3), EIA-485 (RS-485), ARP, ICMP, IGMPv2, IPv4, IPv6, DHCPv4, TCP, TLS 1.2, UDP, HTTP

Application

Charge controller in plug-in electric vehicle prototypes (EV) and EV simulator for testing purposes

Operational

Parameter	Value
Temperature range	-40 °C - +85 °C
RoHS / REACH	Compliant
Power supply	12 V
Power consumption	max. 4 W (2.6 W in idle mode) - plus power for attached USB devices
Outline dimension	100 x 120 x 20 mm
Weight	92 g
Air humidity	95% rel. humidity (non condensing)



Interfaces

- Ethernet
- CAN/RS-232
- USB
- Daughter Board Connector