chargebyte

Charge Module S

Introduction

Charge Module S add DIN 70121 and ISO 15118 functionality to the EV side. It provides all core functionalities to enable Onboard-Chargers or Battery Packs the High-Level Communication with a CCS Charging Station.

The Module is equipped with a QCA7005 and a powerful Cortex M4 running a state-of-the-art Real Time Operating System with our complete SW-Stack included.
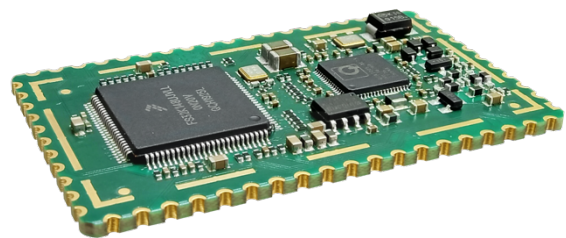
Key Features

- Dual mode ISO 15118/DIN 70121 SW-Stack (DC)
- IEC61851 and ISO 15118 (AC)
- Ready for Plug and Charge
- Ready for bidirectional charging
- Automotive ready
- UDS support for diagnostics and configuration

Interfaces

- CAN
- UART (not implemented yet)
- SPI (not implemented yet)
- Ethernet (not implemented yet)

Operational

Parameter	Value
Weight	< 10 g
Temperature range	-40 °C - 85 °C
RoHS / REACH	This product is manufactured RoHS / reach compliant.
Power supply	3.3 V
Power consumption	max. 350 mA
Outline dimension	50.8 x 30.48 mm

Application

- Generic Charge Communication Controller for Electric Vehicles
- Integration into an AC Onboard-Charger to enable Fast DC charging
- Integration into an AC Onboard-Charger to enable smart ISO 15118 AC charging
- Integration into a BMS, to enable "native" DC charging