

Charge Module S

Preliminary Datasheet

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.

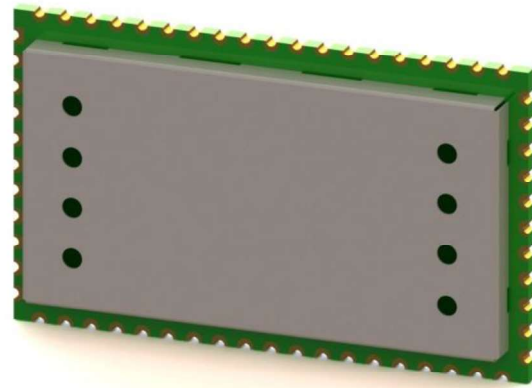
The Module is equipped with a QCA7005 and a powerful Cortex M4 running a state-of-the-art Real Time Operating System with our complete SW-Stack included.

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
- TLS 1.2
- SPI-Interface
- CAN-Interface
- Automotive ready
- UDS support for diagnostics and configuration

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 mm x 30.48 mm



Applications

- 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

Interfaces

Charge Module S has a CAN-Interface for the customers application.

- **CAN bus**
CAN is implemented in Charge Module S with baud rate running at default 500 Kbit/s. Messages are supporting extended IDs. A DBC-File is available on request.
- **SPI**
It is not yet implemented. If you are interested, please get in touch with us.
- **Ethernet**
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