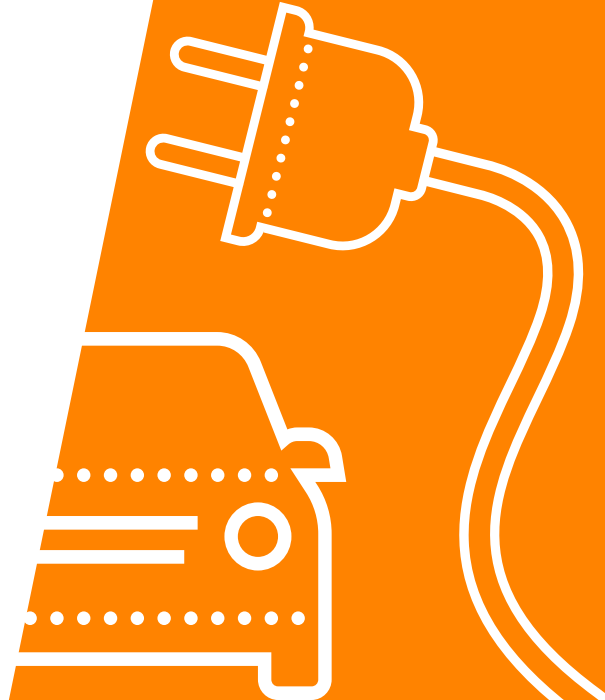


Smart Charging

Solutions for Electric Vehicle Communication
and Charging Infrastructure

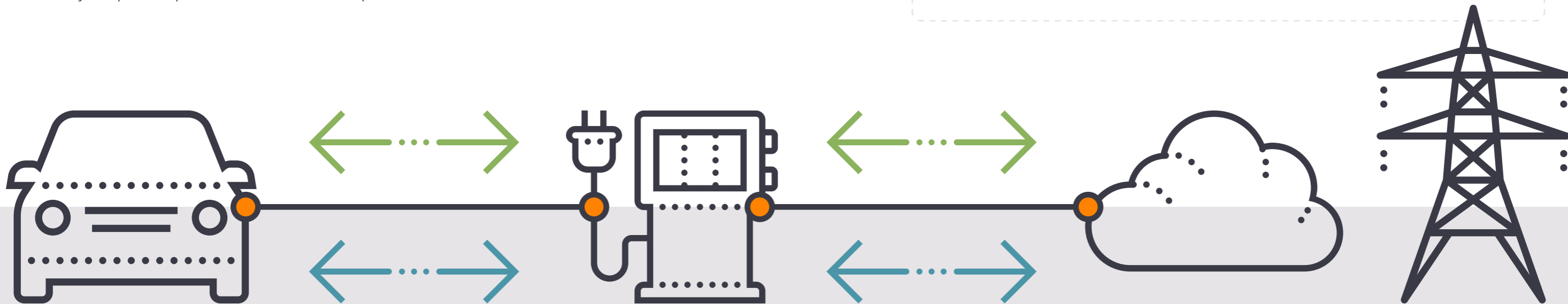


Smart Charging

We develop and produce hardware and software for communication between vehicle, charging station and backend. Our product portfolio ranges from communication modules for charging stations to complete functional safety controllers for automotive applications.

In addition, we advise you on the integration of our products, support you in the adaptation of software and interfaces and realize your special requirements as contract development.

- ✓ **Charging Infrastructure**
- ✓ **Automotive**
- ✓ **Plug and Charge**
- ✓ **Bidirectional Charging**
- ✓ **Vehicle to Grid**
- ✓ **Smart Grid**



Our Products

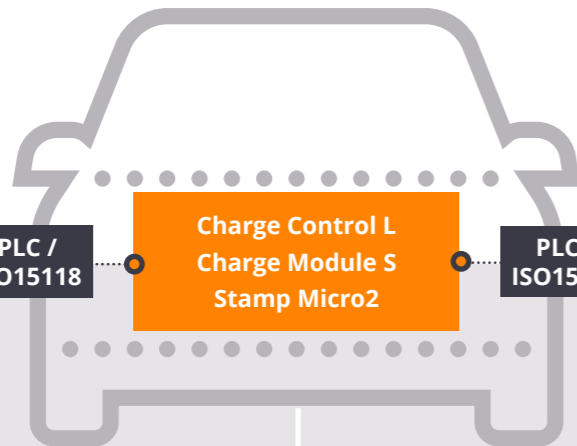
AC Charging



Charge Control C
Charge Module E
Stamp Micro2

PLC /
ISO15118

Vehicle



Charge Control L
Charge Module S
Stamp Micro2

PLC /
ISO15118

DC Charging



Charge Control O
Charge Control D
Charge Control M
Charge Module E
Stamp Micro2

Products in the Vehicle



Charge Control L

Standalone Charge Controller

- > Functional safety according to ISO 26262
- > Inlet temperature and lock monitoring
- > Contactor control
- > Complete CCS stack according to DIN 70121 / ISO 15118
- > PP and CP monitoring
- > Diagnostics via UDS

Charge Module S

Charge Communication Module

- > Complete CCS stack according to DIN 70121 / ISO 15118
- > Ready for PnC
- > PP and CP monitoring
- > Incl. Qualcomm QCA7005
- > Easy to use CAN interface
- > Update via CAN or UART
- > Up to 7 additional GPIOs

PLC Stamp Micro2 / Mini2

PLC Communication Module

- > PLC according to ISO 15118-3 via SPI
- > Based on Qualcomm QCA7005

Products in the Charging Station



AC Charging Station Charge Control C

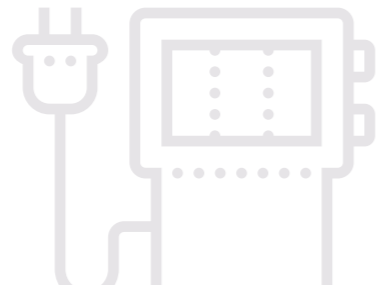
Standalone AC Charge Controller

- › Complete ISO 15118 SW Stack
- › Contactor and inlet control
- › Plug and Charge (PnC)
- › OCPP 1.6j
- › Customized applications can be implemented
- › Embedded Linux with full access for customer

AC & DC Charging Station Charge Module E

Charge Communication Module

- › Integrates with your own hardware
- › Complete CCS stack according to DIN 70121 / ISO 15118
- › Ready for PnC
- › PP and CP monitoring
- › Incl. Qualcomm QCA7005
- › Easy to use CAN interface
- › Update via CAN or UART
- › Up to 6 additional GPIOs



DC Charging Station Charge Control D

Compact and cost-efficient DC Charge Controller

- › Optimized for DC wall boxes
- › Functional safety for temperature measurement and CP Signal
- › DIN 70121 / ISO 15118 compliant
- › PP and CP monitoring
- › OCPP
- › Ready for Bidirectional charging acc. -20

DC Charging Station Charge Control M

Powerline Communication Controller

- › Complete CCS Stack according to DIN 70121 / ISO 15118
- › Plug and Charge (PnC)
- › Customized applications can be implemented
- › Embedded Linux with full access for customer

Vehicle & Charging Station PLC Micro2 / Mini2

PLC Communication Module

- › PLC according to ISO 15118-3 via SPI
- › Based on Qualcomm QCA7005

DC Charging Station Charge Control O

WiFi Communication Controller

- › OppCharge compliant SW stack
- › Customized applications can be implemented
- › Embedded Linux with full access for customer



**Welcome to the
#nextlevel**

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