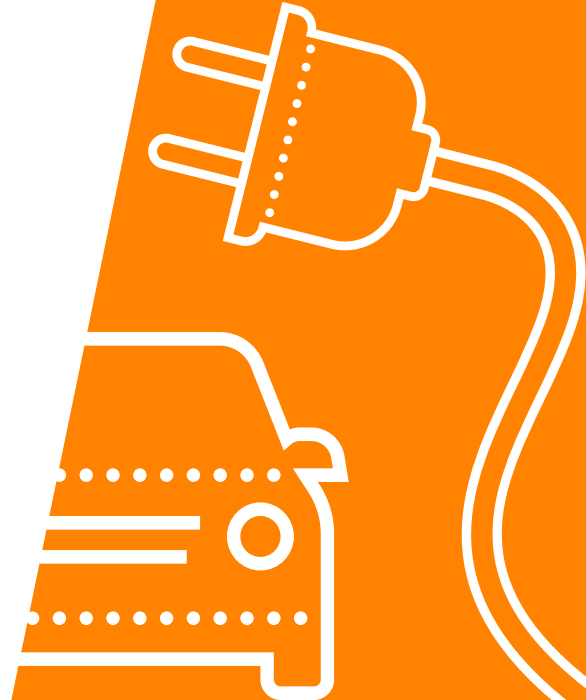


Smart Charging

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**

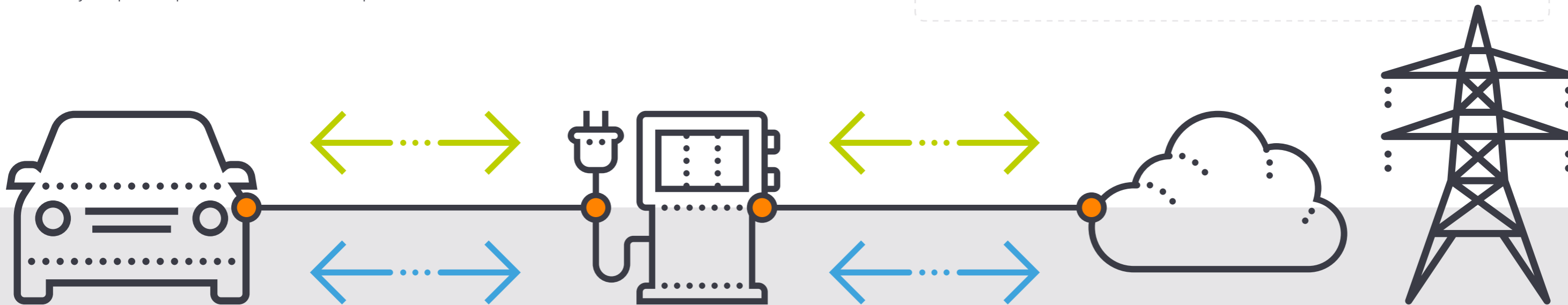
✔ **Automotive**

✔ **Plug and Charge**

✔ **Bidirectional Charging**

✔ **Vehicle to Grid**

✔ **Smart Grid**



Our Products

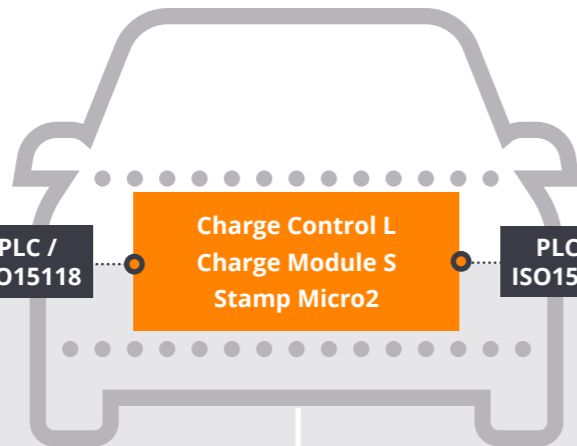
AC Charging



Charge Control C
Charge Module E
Stamp Micro2

PLC /
ISO15118

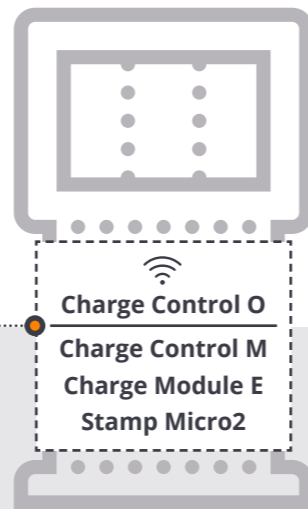
Vehicle



Charge Control L
Charge Module S
Stamp Micro2

PLC /
ISO15118

DC Charging



Charge Control O
Charge Control M
Charge Module E
Stamp Micro2

Products in the Vehicle



Charge Control L

DC Charge Controller for Charging Communication and Charge Control

- ✓ Functional safety according to ISO 26262
- ✓ Inlet temperature and Lock monitoring
- ✓ Contactor control
- ✓ Current and voltage measurement

Charge Module S

Solderable CCS Communication Module

- ✓ Complete CCS stack according to DIN 70121 / ISO 15118
- ✓ Plug and Charge (PnC)
- ✓ PP and CP evaluation



PLC Stamp Micro2 / Mini2

PLC Communication Module

- ✓ PLC according to ISO 15118-3 via SPI

Products in the Charging Station

AC Charging Station Charge Control C

„All in One“ Communication
Controller

- ✓ Complete ISO 15118 SW Stack
- ✓ Contactor and inlet control
- ✓ Plug and Charge (PnC)
- ✓ OCPP 1.6
- ✓ Customized applications can be implemented

DC Charging Station Charge Control M

Standalone Controller

- ✓ Complete CCS Stack according to DIN 70121 / ISO 15118
- ✓ Plug and Charge (PnC)
- ✓ Customized applications can be implemented

AC & DC Charging Station Charge Module E

Solderable CCS Communication
Module

- ✓ Integrates with your own hardware
- ✓ Complete CCS stack according to DIN 70121 / ISO 15118
- ✓ Plug and Charge (PnC)
- ✓ PP and CP control

DC Charging Station Charge Control O

Standalone W-Lan Controller

- ✓ Complete OPPCharge charging stack
- ✓ Customized applications can be implemented

Vehicle & Charging Station PLC Micro2 / Mini2

PLC Communication Module

- ✓ PLC according to ISO 15118-3 via SPI

**Welcome to the
#nextlevel**

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