

# Charge Module AC

## ISO 15118 Communication Module for AC EVSE and wall boxes

### Introduction

**Charge Module AC (CMAC)** adds ISO 15118-2, ISO 15118-20, Plug & Charge, bidirectional charging (BiDi) and smart charging communication to AC wall boxes and public charging stations.

It is a dedicated AC SECC module / charging communication controller and enables high-level communication between the EV and the host charge controller.

The module is equipped with a Qualcomm QCA700x HomePlug Green PHY PLC chipset and a powerful Cortex M4 running a real-time operating system with chargebyte's AC charging communication stack included.

### Key Features

- Dual mode ISO 15118-2 and ISO 15118-20 and PWM basic AC charging with an advanced fallback mechanism
- IEC 61851 and SAE J1772
- Plug & Charge (PnC), Bidirectional AC charging ready
- TLS 1.2 / TLS 1.3 secure communication
- UDS support for diagnostics and configuration
- AFIR-ready communication basis for public AC charging infrastructure

### Availability

Samples available immediately under the order code:

Order Code	Application
CBCMAC-DMNB-02-03-R/T	Full AC EV communication: PLC, CP and PP control/monitoring
CBCMAC-DMBB-02-03-R/T	PLC-only variant for easy retrofit into existing AC charger architectures



### Application

Dedicated AC EVSE Communication Controller / SECC module for all AC wall boxes, public AC charging stations, destination charging, fleet charging and retrofit architectures.

### Interfaces

- CAN
- UART

### Operational

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