CCS2CON 1.0

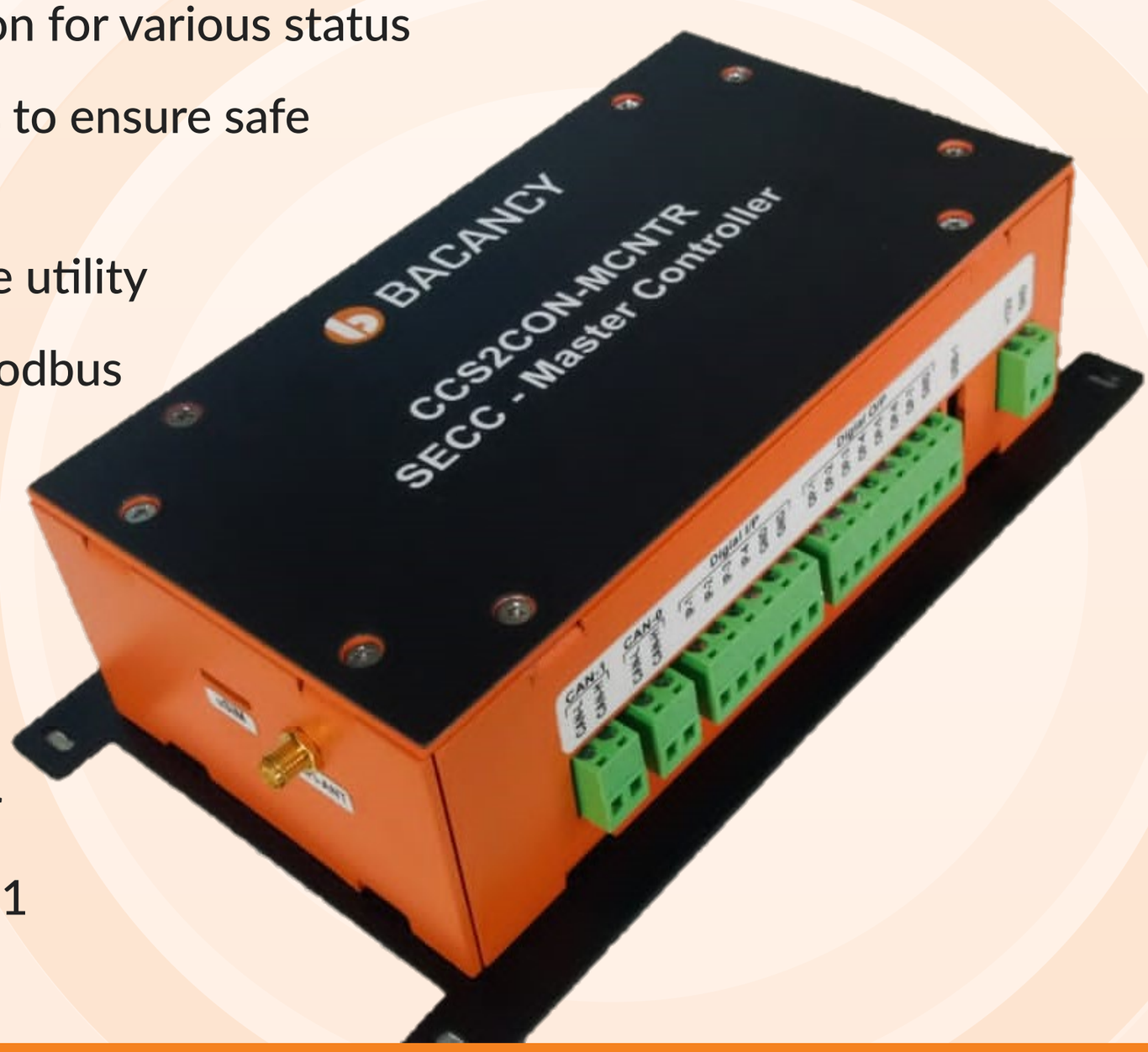
Brochure

Introduction

Bacancy's CCS2 Controller provides a communication medium between Electric Vehicles (EV)and Electric Vehicle Supply Equipment (EVSE) for DC charging stations. It works as Supply Equipment Communication Controller (SECC). Controller manages all the charging processes by DIN 70121 and ISO-15118 (PnC) for fast DC chargers. The controller comes with built-in features to integrate the DC charging components like a Power Module, Insulation Monitoring Device, Display, Energy Meter, RFID-based authentication, and OCPP which make a smoother experience in the development of DC fast charger.

Key Features

- RFID for authentication and LED indication for various status
- Support for insulation Monitoring devices to ensure safe charge operation
- Easy to configure charger using a software utility
- Interface to Display charging data over Modbus
- Supports Dual CCS2 Interface
- Support OCPP1.6J and scalable to OCPP2.0
- Support Single AC Type-2 Interface
- Suitable for 30kW, 60kW,120kW Charger
- Compliant with ISO 15118 and DIN 70121



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Key Technical Specifications

Parameters	Specifications
Input Supply	12V DC@2A
Type of Connector support	CCS2 Single GUN | CCS2 Dual GUN + AC Type 2
Standard	ISO 15118 | DIN SPEC 70121 | Plug & Charge | V2G (Vehicle to Grid) | IEC61851-1
Vehicle Communication	Basic Signaling (BS) and High-Level Signaling (HLC)
HMI	RS-485 (Modbus RTU Slave)
Connector Type	IEC 60309 Industrial Socket
Power Module Interface	CAN2.0
Insulation Monitoring Device	Digital Input
DC Power Measurement / MID Energy Meter	RS-485 (Modbus RTU Master)
RFID	MF RC522, 13.52 MHZ
Network Connection	Support OCPP1.6J, Upgradable to OCPP 2.0
Digital Input	4 Nos. (12V Logic)
Digital Output	6 Nos. (Open Collector)
Gun Temperature Measurement	PT1000 to Monitor DC Pins & prevent Overheating
LED	Status Indication LED strips for Charging Indicators
Load Balancing	Dynamic load sharing based on EV Demand
FOTA Support	Available
Storage	In-built SD card up to 32 GB for Data Storage
Operating Temperature	-20°C ~ +70°C
Dimension	210x120x59 mm

Waiting for Block Diagram

Product Applications

Helps to build a compact and rugged AC Charger ecosystem

Commercial EV charging stations

Residential Charging

Public Parking Charging