https://www.annren.com
e-Mail：sales@annren.com
TEL：+886-6-313-0155 FAX：+886-6-313-0225
No.196-19, Zhonghua Rd., Yongkang Dist., Tainan City 71069, Taiwan

Electric Vehicle Communication Controller
MODEL NO. AT-EVCC-300

1. Product Features

1.1 Basic Design

9V~32V wide voltage power input, -40~85℃ industrial-grade wide temperature design, suitable for application sites with different requirements. It comes with CAN communication interface and power line carrier communication interface, which conforms to industrial standards. It also has the following protection features:

1) Anti-vibration;
2) Anti-aging;
3) Triple protection level reaches IP67;

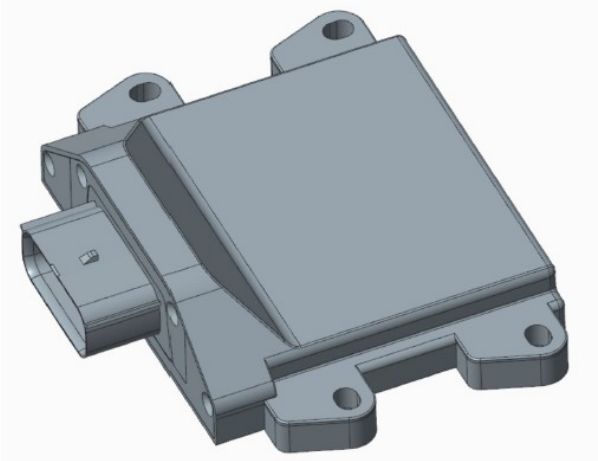


Figure 1: Image of AT-EVCC-300

1.2 Hardware Design

Independently developed, and all use automotive-grade chips.

1.3 Software Design

Independently developed, and fully compliant with European standard DIN 70121 and American standard ISO-15118 communication protocols; equipped with a complete V2G protocol stack, meeting the PLC communication requirements of HomePlug Green PHY 1.1 standard, with high stability.

1.4 BMS Communication Design

The communication protocol of BMS can be adopted in the following ways:
1) GB/T 27930-2015 communication protocol.

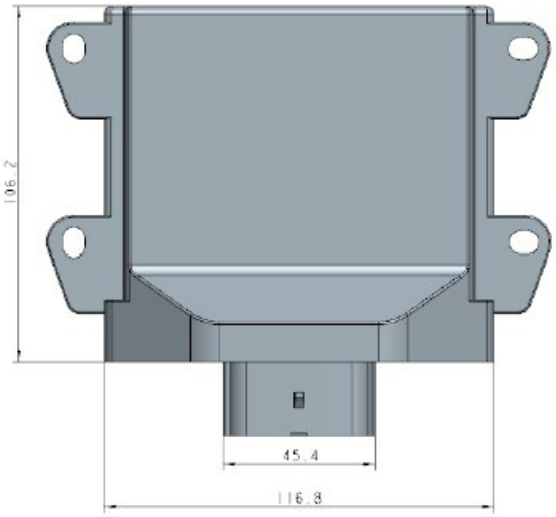
https://www.annren.com
e-Mail：sales@annren.com
TEL：+886-6-313-0155 FAX：+886-6-313-0225
No.196-19, Zhonghua Rd., Yongkang Dist., Tainan City 71069, Taiwan

Electric Vehicle Communication Controller
MODEL NO. AT-EVCC-300

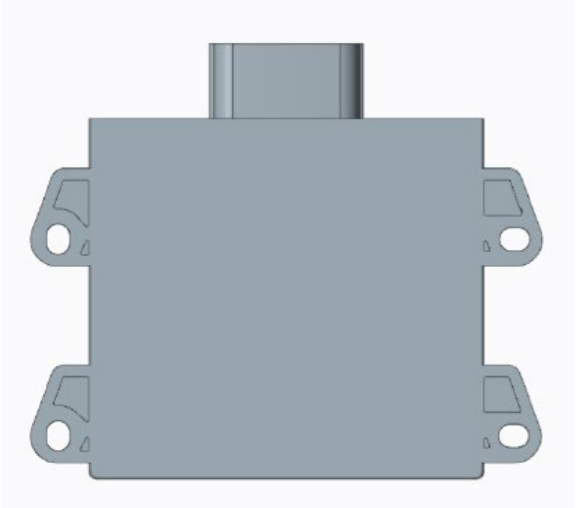
2. Product Parameters

Item	Parameter type	Description
1	Power supply mode	VIN9V-32V
2	Communication mode	CAN*2,PLC Power Line Carrier
3	Communication rate	250K
4	Protocol standard	DIN70121,ISO15118,GBT27930, etc.
5	Gun plug detection	PP wake-up
6	BMS wake-up	12V/24V power supply wake-up
7	Upgrade mode	OTA air upgrade
8	Operating temperature	-40~85 degrees Celsius
9	Storage temperature	-55~105 degrees Celsius
10	Operating power consumption	About 2W
11	Sleep current	Less than 60 microamperes

3. Appearance diagram



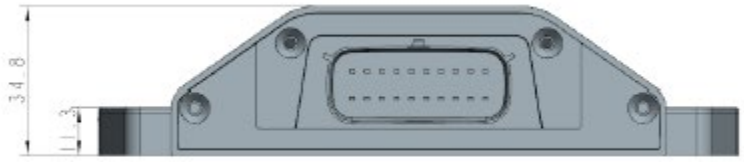
Top view



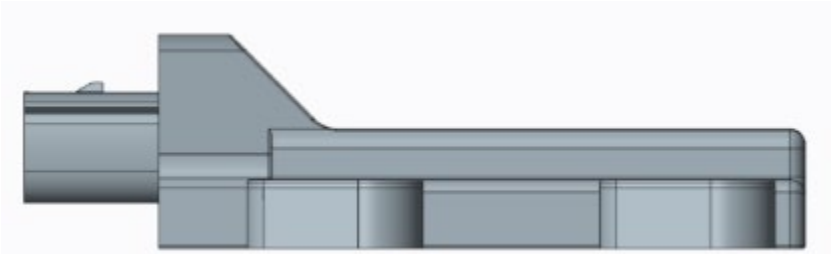
https://www.annren.com
e-Mail：sales@annren.com
TEL：+886-6-313-0155 FAX：+886-6-313-0225
No.196-19, Zhonghua Rd., Yongkang Dist., Tainan City 71069, Taiwan

Electric Vehicle Communication Controller
MODEL NO. AT-EVCC-300

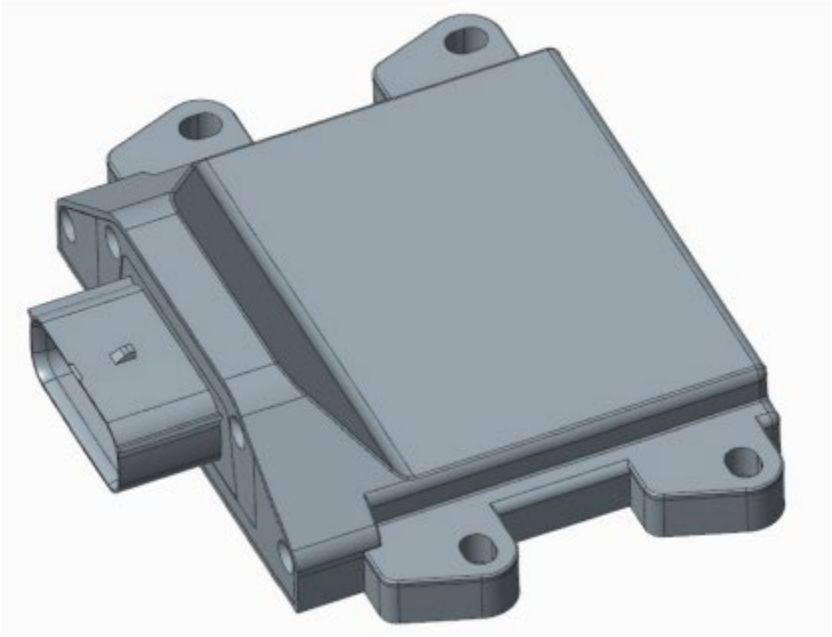
Bottom View



Front View



Side View

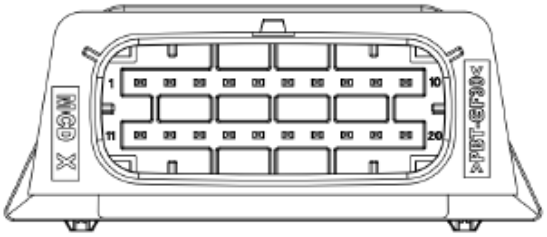


45 degree view

https://www.annren.com
e-Mail：sales@annren.com
TEL：+886-6-313-0155 FAX：+886-6-313-0225
No.196-19, Zhonghua Rd., Yongkang Dist., Tainan City 71069, Taiwan

4. INTERFACE

4.1 Definition: CAN ID; CAN BUS Speed: 250Kbps



Pin	Symbo	Rated current	Maximum current	Rated voltage	Maximum voltage	Description	Type
1	VIN	1A	/	/	32V	Power input	Power supply
2	CAN2_L	/	/	/	/	Reserved CAN	Communication
3	CAN1_L	/	/	/	/	BMS CAN	Communication
4	PP_OUT	/	/	/	/	AC CC signal	Signal
5	LOCK_DC+	/	1.65A	/	/	Electronic lock control	Power supply
6	UART_TX	/	/	/	/	Log reading	Communication
7	A+	/	2A	/	/	BMS wake-up	Power supply
8	GND	/	/	/	/	Protective grounding	Power supply
9	PP	/	/	/	/	Gun insertion detection	Signal
10	CP	/	/	/	/	Control guide	Communication
11	GND	/	/	/	/	Protective grounding	Power supply
12	CAN2_H	/	/	/	/	Reserved CAN	Communication
13	CAN1_H	/	/	/	/	BMS CAN	Communication
14	CP_OUT	/	/	/	/	AC control guide	Communication
15	CC2	/	/	/	/	CC2 wake-up	Signal
16	UART_RX	/	/	/	/	Log reading	Communication
17	5V_OUT	/	2A	/	/	Reserved power supply	Power supply
18	LOCK_S1	/	/	/	/	Electronic lock feedback	Signal
19	LOCK_DC-	/	1.65A	/	/	Electronic lock control	Power supply
20	GND	/	/	/	/	Chassis ground connected to charging socket	Power supply