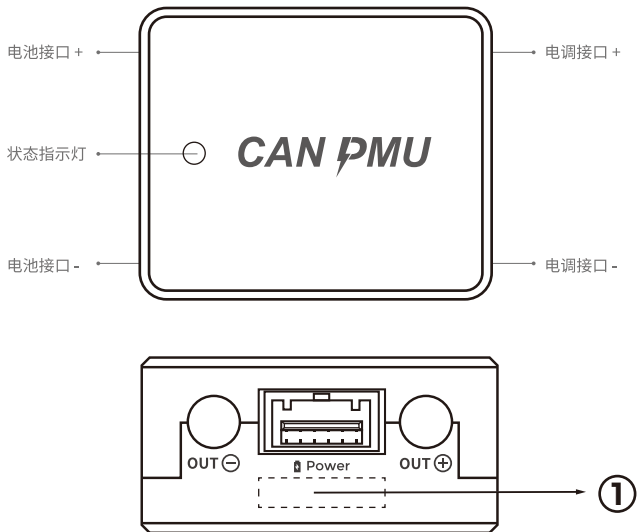# CAN PMU

高精度电压电流检测模块产品说明书
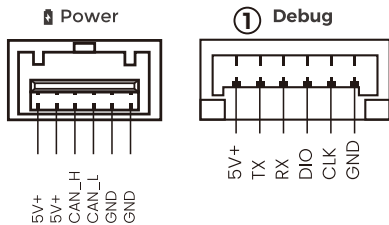
CUAV

欢迎使用CAN PMU产品!

使用前请先阅读本说明!

CAN PMU标识定义

电池接口 + ————

电调接口 +

状态指示灯 ————

CAN PMU

电池接口 - ————

电调接口 -

OUT ⊖　🔋 Power　OUT ⊕

①

Power

5V+
5V+
CAN_H
CAN_L
GND
GND

① Debug

5V+
TX
RX
DIO
CLK
GND

CAN PMU连接示意图

OUT ⊖   **Power**   OUT ⊕

V5+

◀ FRONT

PPM
M1
M2
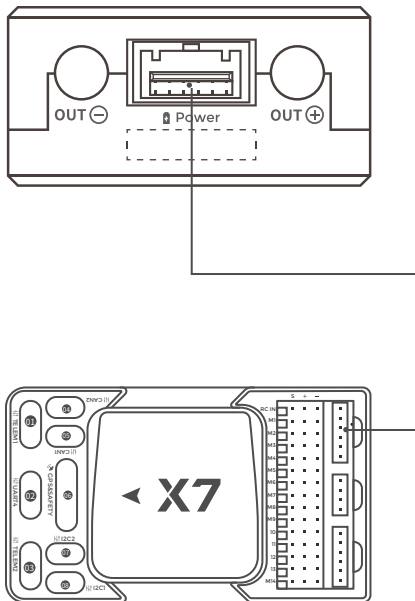M3
M4
M5
M6
M7
M8
A1
A2
A3
A4
A5
A6

Power2

Power1
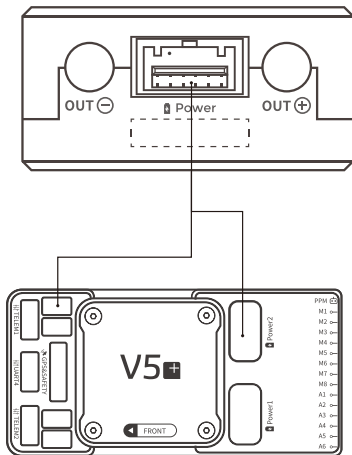
CAN PMU连接示意图

软件设置

ArduPilot固件（飞行控制器的固件）

在**Mission planner**的全部参数表设置以下参数并在写入后重启：

- CAN_P1_DRIVER=1
- CAN_P2_DRIVER=1
- BATT_MONITOR=8（如果使用监视器1）

注意：请使用AC3.6/AP3.9（含）以上版本的固件

PX4固件（飞行控制器的固件）

在**QGroundControl**参数列表中设置以下参数并在写入后重启：

- Uavcan_enble设置为**sensors Automatic config**(自动配置)

注意：PX4固件在1.10或更高版本中支持UAVCAN电源检测模块
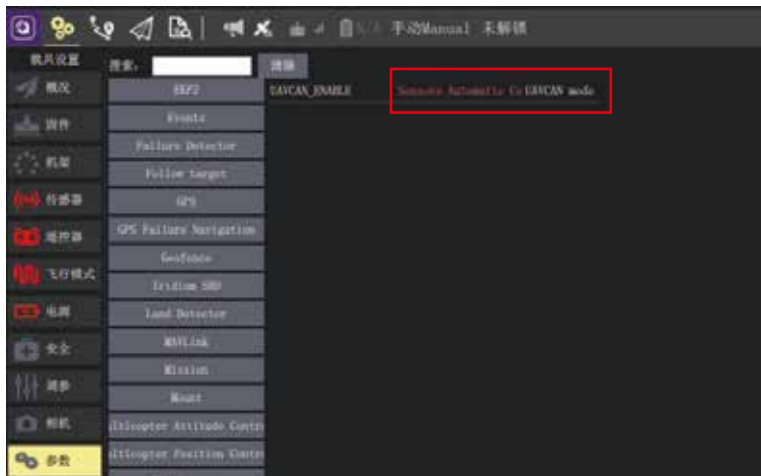
规格参数

基本参数

处理器	STM32F412 100Mhz 512K Flash 256K RAM
输入电压	6-62V(2-15S)
最大电流	110A
电压准确度*	±0.05V
电流准确度	±0.1A
分辨率	0.01A/V

最大输出功率	6000W/90S
最大稳定输出功率	5000W
稳压输出(Power)	5.4V/5A
通信协议	UAVCAN
工作温度	-20℃ ~ +100℃
固件升级	支持
校准设置	工厂校准, 用户无需校准

接口类型

IN/OUT	XT90(线材端)/Amass 8.0(模块端)
Power	5025850670

产品外观

尺寸	46.5mm×38.5mm×22.5mm
重量	76g

配件清单

CAN PMU电调连接线	X1
X7系列飞控电源线	X1
v5系列飞控电源线	X1
Pixhawk飞控连接线	X1

注意事项

- 请仔细阅读产品的使用说明书
- 连接电池前，请仔细检查连线
- 请在额定的电压、电流、功率下使用
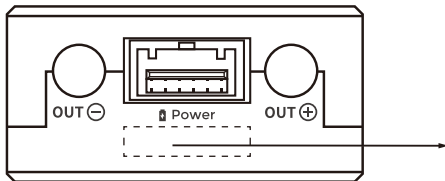- 请阅读文档中心进行配置和使用
- 严禁自行拆装

固件升级

固件升级教程请访问CUAV文档中心:http://doc.cuav.net

更多资料

关于产品的更多信息，请访问CUAV官方文档中心：http://doc.cuav.net
及官方网站：http://www.cuav.net

Thank you for choosing CAN PMU !

Please read this guide before using!

CAN PMU interface definition

Battery + — ESC +

Status light — CAN PMU

Battery - — ESC -

OUT ⊖   Power   OUT ⊕

Power

5V+
5V+
CAN_H
CAN_L
GND
GND

Debug

5V+
TX
RX
DIO
CLK
GND

CAN PMU connection schematic diagram

OUT ⊖   Power   OUT ⊕

V5+

FRONT

PPM
M1
M2
M3
M4
M5
M6
M7
M8
A1
A2
A3
A4
A5
A6

Power2

Power1
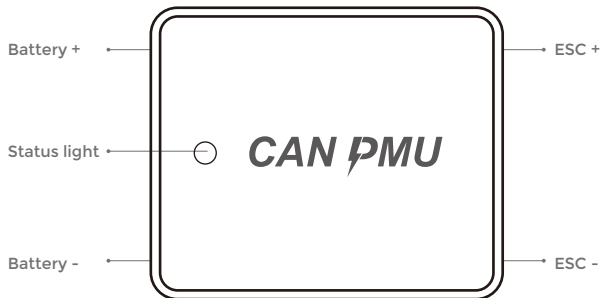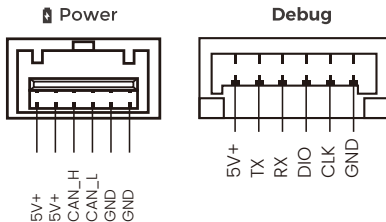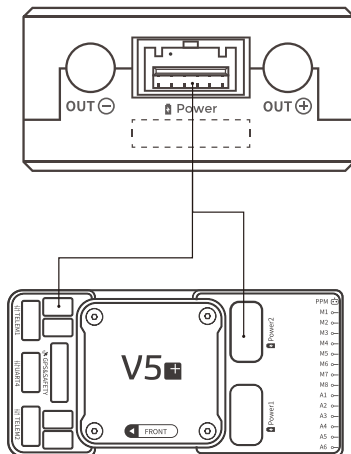
CAN PMU connection schematic diagram
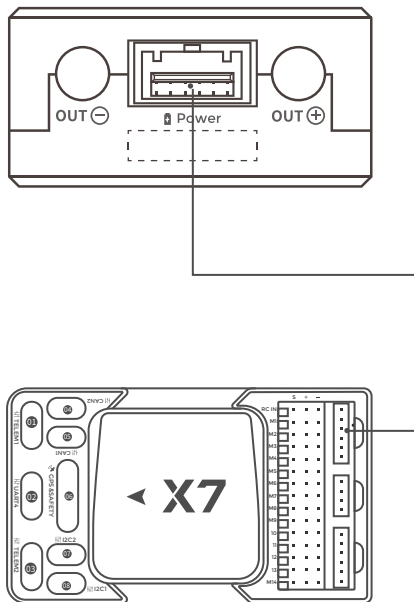
Software settings

ArduPilot firmware (flight controller firmware)

Set the following parameters in the Mission planner's full parameter list and restart after writing:

- CAN_P1_DRIVER=1
- CAN_P2_DRIVER=1
- BATT_MONITOR=8 (If using monitor 1)

Note: Please use the firmware of AC3.6/AP3.9 (included) or higher.

PX4 firmware (flight controller firmware)

Set the following parameters in the QGroundControl parameter list and restart after writing:

- Uavcan_enble set to sensors Automatic config

Note: PX4 firmware supports UAVCAN power detection module in 1.10 or higher.
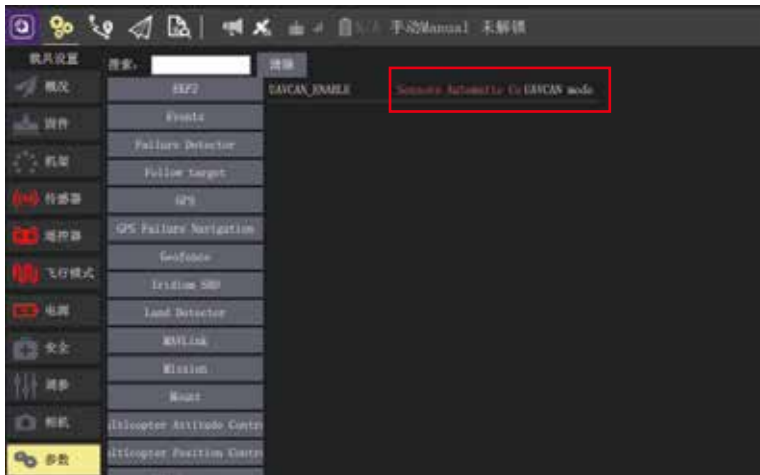
Specifications

Basic parameters

Processor	STM32F412 100Mhz 512K Flash 256K RAM
Voltage input	6-62V(2-15S)
Max current	110A
Voltage accuracy	±0.05V
Current accuracy	±0.1A
Resolution	0.01A/V

Max output power	6000W/90S
Max stable power	5000W
Power port output	5.4V/5A
protocol	UAVCAN
Operating temp	-20℃ ~ +100℃
Firmware upgrade	Support
Calibration	No need

Interface Type

IN/OUT	XT90(Cable end)/Amass 8.0(Module end)
Power	5025850670

Appearance

Size	46.5mm×38.5mm×22.5mm
Weight	76g

Packing List

CAN PMU	X1
X7 series power cable	X1
V5 Series Power Cable	X1

Notes

- Please read the product manual carefully.
- Please check the connection carefully before connecting the battery
- Please use at rated voltage, current and power
- Please read the documentation center for configuration and use
- Do not disassemble

Firmware upgrade

Please visit the CUAV Documentation Center for a firmware upgrade tutorial:
http://doc.cuav.net

More info

For more information on the product, please visit the CUAV Official
Documentation Center:http://doc.cuav.net
And official website:http://www.cuav.net

CUAV

雷迅创新