pixhawk® 4

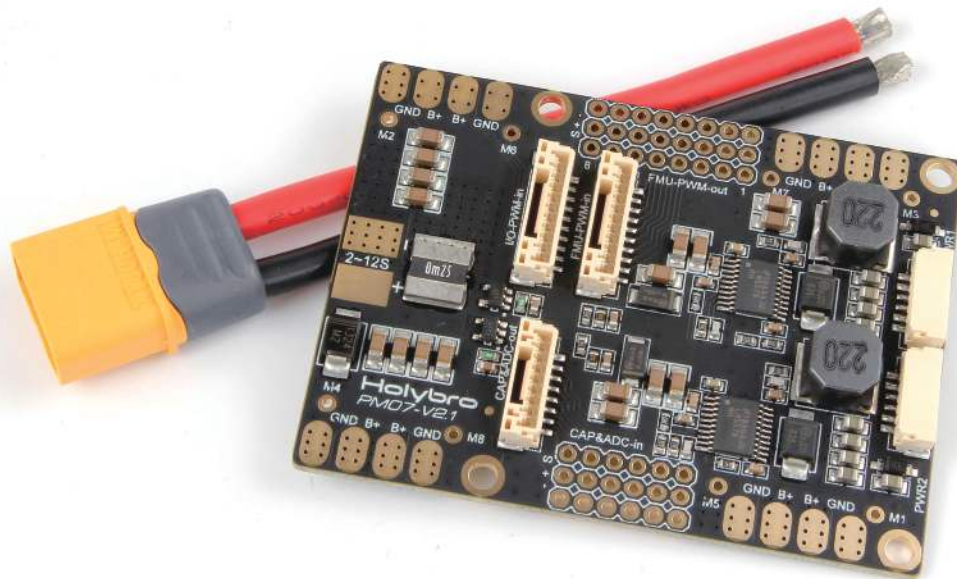## Power Management Board

Holybro

Connect the output of a Power Management Board (PM board) that comes with the kit to one of the **POWER** bricks of Pixhawk 4 using a 6-wire cable as shown. The PM input **2~12S** will be connected to your LiPo battery. The connections of Power Management Board, including power supply and signal connections to the ESCs and servos, are explained in the table below. Note that the PM board don't supply power to the servos via + and - pins of **FMU PWM-OUT**. The image below shows the power management board provided with Pixhawk 4.
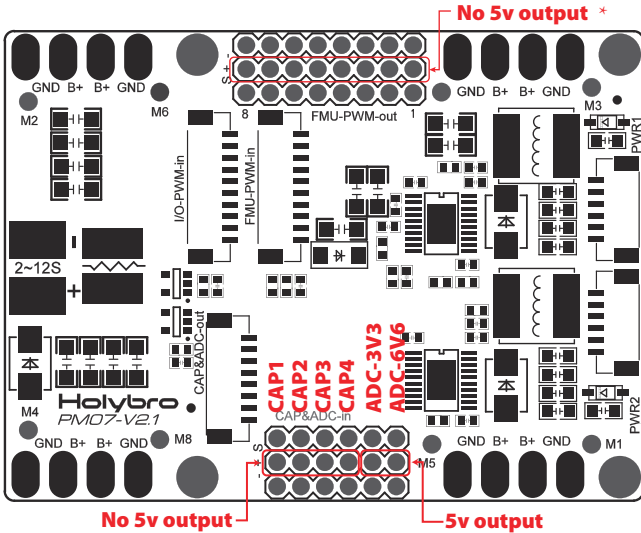
✳ Note: If using a plane or rover, the 8 pins power rails of **FMU PWM-OUT** along with a BEC equipped ESC or a standalone 5V BEC or a 2S LiPo battery must be used to supply power to servos. Be careful with the voltage of servo you are going to use here.

PIN & Connector	Function
I/O PWM-IN	If using COPTER connect to I/O PWM OUT port of Pixhawk4
M1	I/O PWM OUT 1: connect signal wire to ESC of motor 1 here
M2	I/O PWM OUT 2: connect signal wire to ESC of motor 2 here
M3	I/O PWM OUT 3: connect signal wire to ESC of motor 3 here
M4	I/O PWM OUT 4: connect signal wire to ESC of motor 4 here
M5	I/O PWM OUT 5: connect signal wire to ESC of motor 5 here
M6	I/O PWM OUT 6: connect signal wire to ESC of motor 6 here
M7	I/O PWM OUT 7: connect signal wire to ESC of motor 7 here
M8	I/O PWM OUT 8: connect signal wire to ESC of motor 8 here
FMU PWM-IN	If using COPTER connect to FMU PWM OUT port of Pixhawk4 If using PLANE or ROVER connect to I/O PWM OUT port of Pixhawk4
FMU PWM-OUT	If using COPTER, AUX output: connect signal wires to ESC or signal,+,- wires to servos here If using PLANE or ROVER, I/O PWM output: connect singnal wires to ESC or signal,+,- wires to servo here
CAP&ADC-OUT	connect to CAP & ADC IN port of Pixhawk4
CAP&ADC-IN	CAP&ADC input
B+	connect to ESC B+ to power the ESC
GND	connect to ESC Ground
PWR1	5V output 3A,connect to Pixhawk4 Power 1
PWR2	5V output 3A,connect to Pixhawk4 Power 2
2~12S	Power Input, connect to 2-12S LiPo Battery

The pinout of Pixhawk4's power ports is shown below. The CURRENT signal should carry an analog voltage from 0-3.3V for 0-120A as default. The VOLTAGE signal should carry an analog voltage from 0-3.3V for 0-60A as default.

The VCC lines have to offer at least 3A continuous and should default to 5.1V. A lower voltage of 5V is still acceptable, but discouraged.

Power 1, Power 2 ports		
Pin	**Signal**	**Volt**
1(red)	VCC	+5V
2(blk)	VCC	+5V
3(blk)	CURRENT	+3.3V
4(blk)	VOLTAGE	+3.3V
5(blk)	GND	GND
6(blk)	GND	GND

Specifications :
PCB Current: total 120A outputs (MAX)
UBEC 5v output current :3A
UBEC input voltage : 7~51v (2~12s LiPo)
Dimensions:68*50*8 mm
Mounting Holes:45*45mm
Weight: 36g

Package Include :
PM07 board*1
80mm XT60 connector wire*1