

# 3DR Power Module Users Manual

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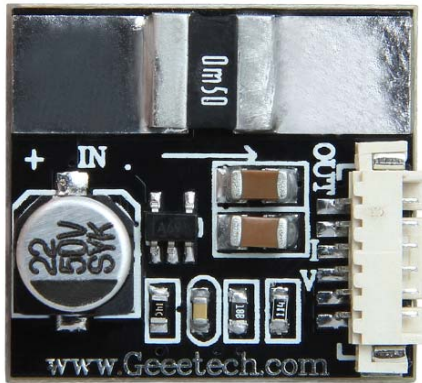
## 1 Introduction

The 3DR Power Module is a simple way of providing your control board with data of the current consumption and voltage measurements of a LiPo battery so that the control board can estimate the remaining flight durations according to the remaining and power capacity and the real time current consumption calculated by the received data. This 3DR Power Module has the function of BES which can provide stable power supply to the control board.

Specifications:

- Max input voltage: 18V
- Min input voltage: 4.5 V
- Voltage and current measurement configured for 5V ADC
- 6-pos DF13 cable plugs directly to APM 2.5's 'PM' connector

### 1.1 Overview and Hardware Resources



Front



rear

1-1

Dimension: 23mm\*22mm\*10mm

Net weight: 19.2g

## **1.2 Software Resources**

Firmware upload: MissionPlanner

PC software: MissionPlanner

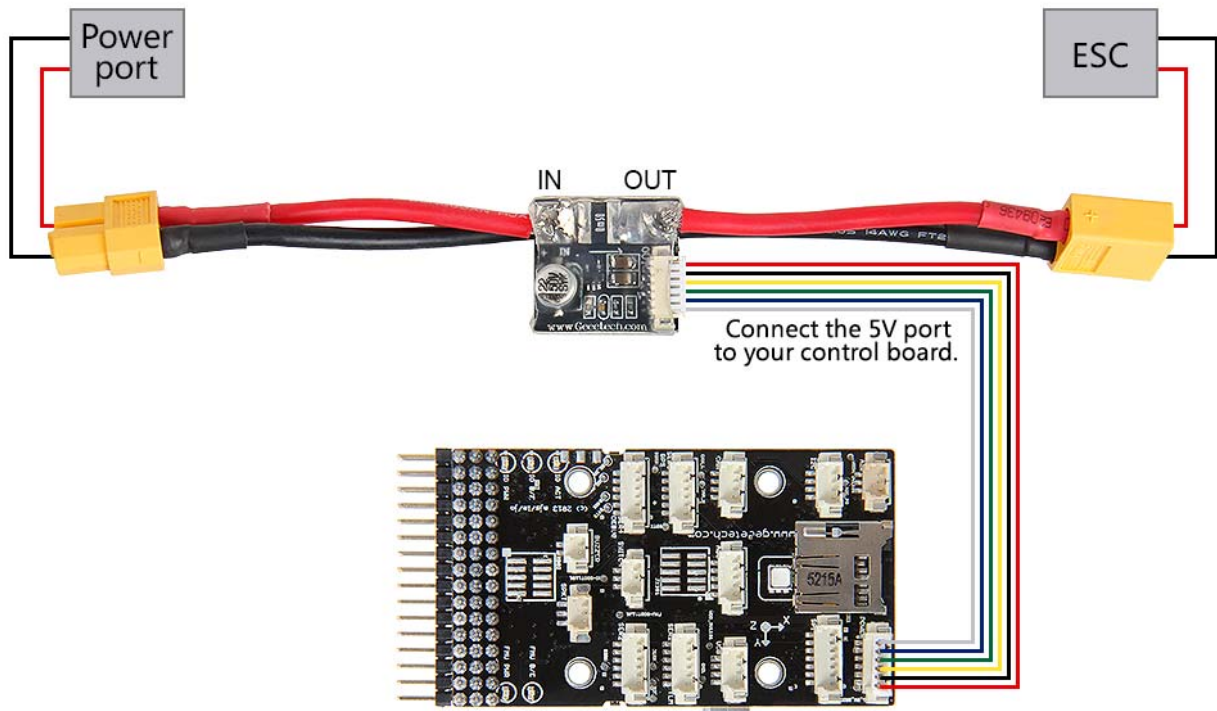
## **1.3 Source**

### **Mission Planner:**

<http://www.geeetech.com/wiki/images/8/85/MissionPlanner-1.2.59.rar>

## 2 Interfaces

### 2.1 Interface connection



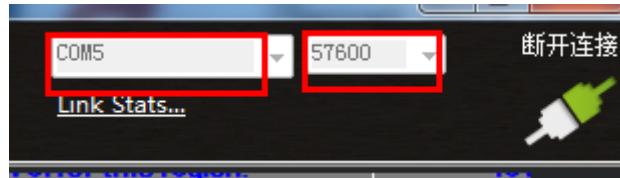
2-1

### 2.2 Interface specifications

1. Connect the IN end of the 3DR Power Module to the Power port;
2. Connect the OUT end to ESC;
3. Connect the 5V port to your control board.

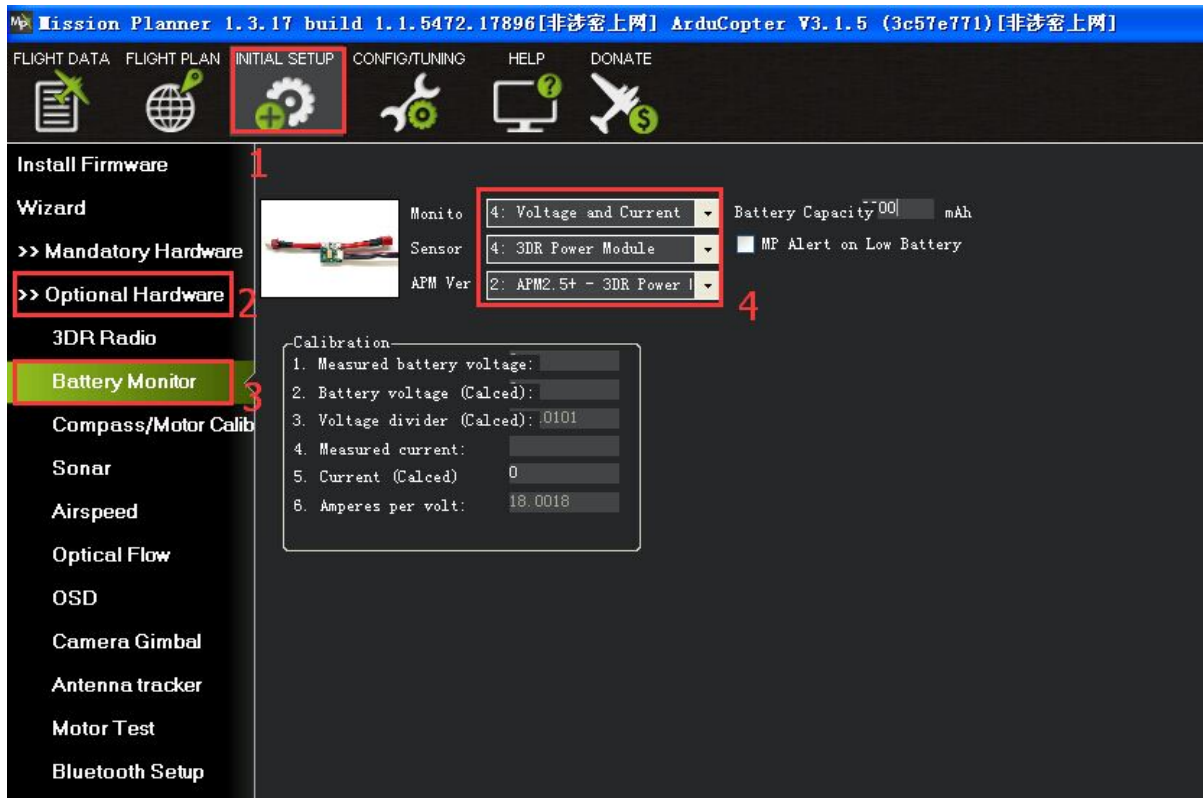
### 3 Development Environment setting

1. Open your Mission Planner; select the correct COM port and baud rate. Then click connect icon.



3-1

2. Set configuration of the battery Monitor



3-2

Monitor: voltage and current

Sensor: 3DR power module

APM version: Pixhawk\*

\*Choose the main control board you are using.