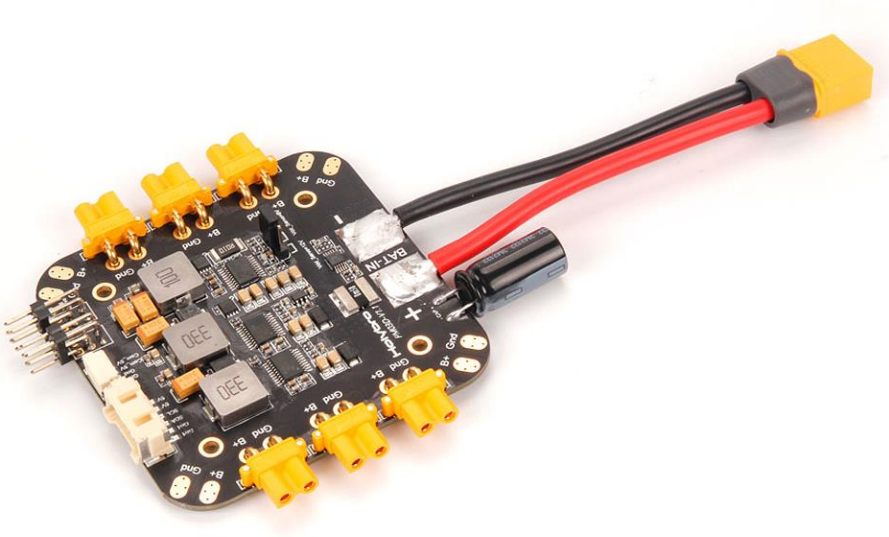
SKU15017

PM03D Power Module



Overview

PM03D provides regulated power supply as well as current consumption and battery voltage measurements via I2C digital protocol all through a 6pin 2.00mm CLIK-Mate cable. Compatible to flight controller that uses I2C power monitor such as the Pixhawk 5X and up.

It is design for multi-rotor like the X500 V2. It has both XT-30 & XT-60 connectors preinstalled for motor ESCs and Battery, as well as two 5V BEC and a selectable 8V/12V output different kinds of peripheral devices.

Note: This PM is not compatible with flight controller that uses analog PM such as the Pixhawk4, Pixhawk4 Mini, pix32 v5, or Durandal flight controllers.

Features

- Plug & play, no additional setup required for QGroundcontrol & Mission Planner
- XT-30 connectors and solder pads for easy motor ESC connection
- Onboard voltage regulators: two 5.2V & one selectable 8V/12V
- 5V/A ports for powering companion computer or peripheral device
- Selectable 8V or 12V triple row pin header for powering peripheral device

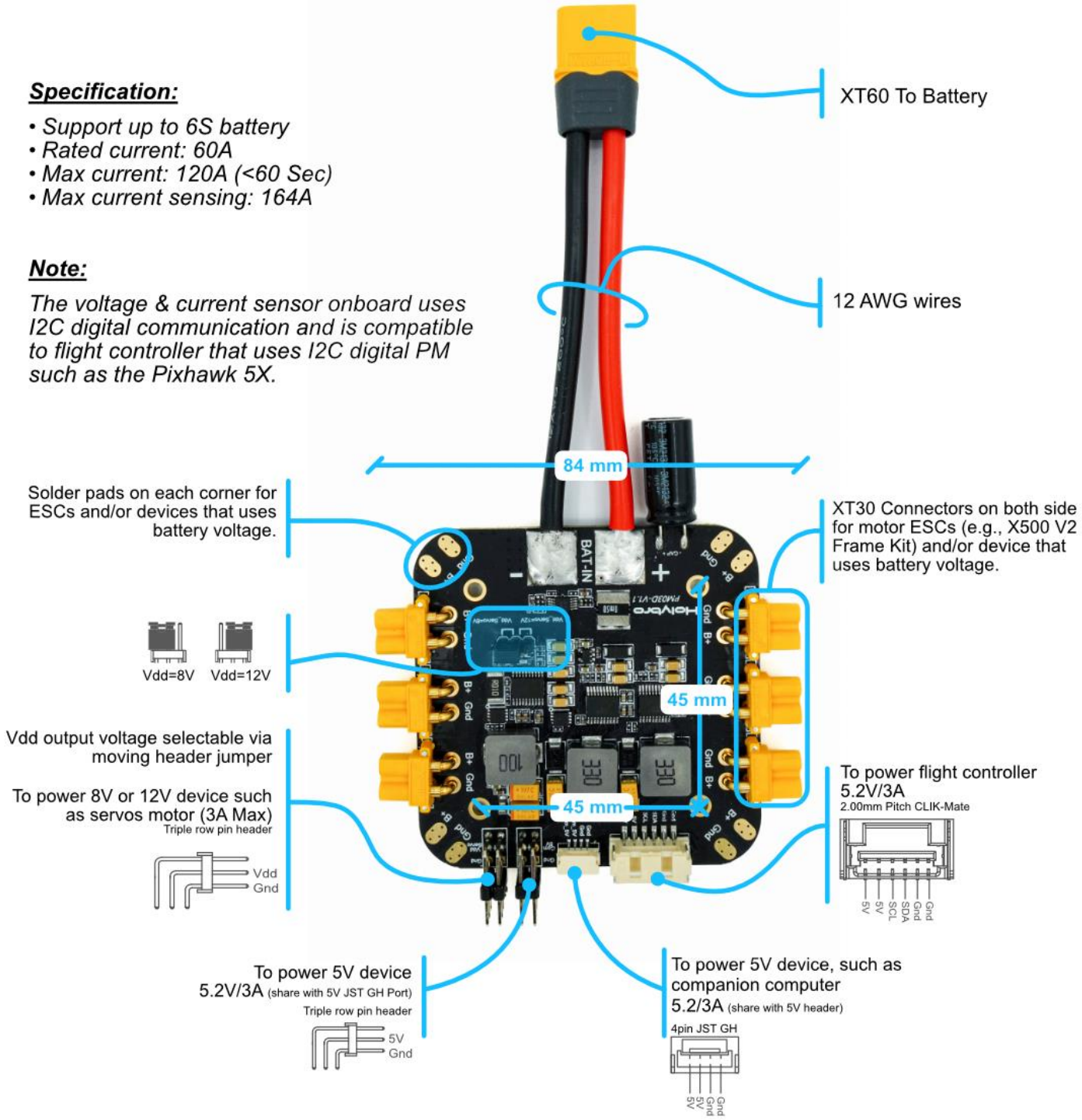
Diagram

Specification:

- *Support up to 6S battery*
- *Rated current: 60A*
- *Max current: 120A (<60 Sec)*
- *Max current sensing: 164A*

Note:

The voltage & current sensor onboard uses I2C digital communication and is compatible to flight controller that uses I2C digital PM such as the Pixhawk 5X.



Technical Specification

- Maximum input voltage: 6S battery
- Rated current: 60A
- Max current: 120A (<60 Sec)
- Max current sensing: 164A
- Connections
    - XT-60 for battery
    - XT-30 for motor & peripheral device (battery voltage)
    - Solder pads in each corner (battery voltage)
    - CLIK-Mate 2.0mm for flight controller (5.2V/3A standalone BEC)
    - JST GH 4pin (5.2V/3A, BEC shared with 5.2V triple row pin header)
    - 2x Triple row pin header (5.2V/3A, BEC shared with JST GH 4pin)
    - 2x Triple row pin header (8V or 12V selectable by moving header jumper, 3A)
- Dimension: 84*78*12mm (excluding wires)
- Mounting: 45*45mm
- Weight: 59g

Package Includes

- PM06 board
- 80mm XT60 connector wire (pre-soldered)
- Electrolytic capacitor: 220uF 63V (pre-soldered)
- 2.0mm pitch CLIK-Mate 6pin cable
- 4pin JST GH to USB Type C
- 4pin JST GH to barrel plug (2.1*5.5mm)
- 4pin JST GH to barrel plug (2.5*5.5mm)
- 4pin Pin Dupont Cable (2pc)
- Nylon standoffs & nuts