

holybro-digital-pm-setup.md

> For the complete documentation index, see llms.txt (<https://docs.holybro.com/llms.txt>). Markdown versions of documentation pages are available by appending `.md` to page URLs; this page is available as Markdown (<https://docs.holybro.com/power-module-and-pdb/power-module/digital-power-module-pm-setup.md>).

Digital Power Module (PM) Setup

```
{% hint style="danger" %}
Pixhawk 5X & 6X uses I2C digital protocol power sensing, so you will need to a digital power module. Dig
{% endhint %}
```

PX4 Setup

```
{% hint style="info" %}
In master FW or 1.15 Stable, PX4 will auto detect the version below so you would not need to manually set th
{% endhint %}
```

Low voltage (6S) Digital Power Module

* Enable Parameter `SENS\_EN\_INA226` (this is enabled by default)

High Voltage (12S/14S) Digital Power Module:

* Enable Parameter `SENS\_EN\_INA228`

Ardupilot Setup

```
{% hint style="info" %}
High voltage version (12/14S) are only support in Ardupilot 4.4 & later. These parameter below should be
{% endhint %}

* `BATT_MONITOR` = 21
* `BATT_I2C_BUS` = 1
* `BATT_I2C_ADDR`
  * \= 0 Auto detect (Default in Ardupilot 4.4 & later)
  * \= 65 (For Low voltage (6S) Digital Power Module)
  * \= 69 (For High Voltage (12S/14S) Digital Power Module)
```

Set BATT2_I2C_BUS to 2 when using Power2 connector

```
{% hint style="info" %}
In Ardupilot 4.4 and later, the BATT_I2C_ADDR for Pixhawk 6X is default to be 0. This will perform a auto
{% endhint %}
```

PM02D (<https://holybro.com/collections/power-modules-pdbs/products/pm02d-power-module>)

This is the standard power module for Pixhawk 5X & 6X. It has XT60 pre-soldered and a low profile design, available in High Voltage (HV) and Low Voltage version (LV).

<div align="center"></div>

PM03D (<https://holybro.com/collections/power-modules-pdbs/products/pm03d-power-module>)

This PM is designed 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, compatible for Pixhawk 5X and 6X.

PM06D (<https://holybro.com/collections/power-modules-pdbs/products/pm06d-power-module>)

PM06D provides regulated power supply for your Pixhawk® 5X & 6X from the battery, as well as current consumption and battery voltage measurements, all through a 6pin cable. It has built-in power distribution, allowing you power your ESC and FC with the same board.

<figure><figcaption></figcaption></figure>

PM08

This Power Module has two 5.2V power output port with independent circuits, BEC IC and circuitry that can provide redundant power to the flight controller.

- * Support 2S - 14S Battery
- * 200A Cont. Current Rating
- * Aluminum Case for Heat dissipation

<figure><figcaption></figcaption></figure>

Using Pixhawk 5X/6X with Analog Power Module

```
{% content-ref url="/pages/mC4IYenqSy0Zn7gbfKJi" %}  
Using Analog PM with Pixhawk 5X/6X (/power-module-and-pdb/power-module/using-analog-pm-with-pixhawk-5x-6x.md)  
{% endcontent-ref %}
```

```
# Agent Instructions  
This documentation is published with GitBook. GitBook is the documentation platform designed so that both hu  
## Querying This Documentation  
If you need additional information that is not directly available in this page, you can query the documentat
```

Perform an HTTP GET request on the current page URL with the `ask` query parameter, and the optional `goal` query parameter:

```
```\nGET https://docs.holybro.com/power-module-and-pdb/power-module/digital-power-module-pm-setup.md?ask=&lt;ques\n```\n\n`ask` is the immediate question: it should be specific, self-contained, and written in natural language.  
`goal` is optional and describes the broader end goal you are ultimately trying to accomplish on behalf of t
```

The response will contain a direct answer to the question and relevant excerpts and sources from the documentation.

Use this mechanism when the answer is not explicitly present in the current page, you need clarification or additional context, or you want to retrieve related documentation sections.