PiPower

sunfounder

Aug 07, 2023

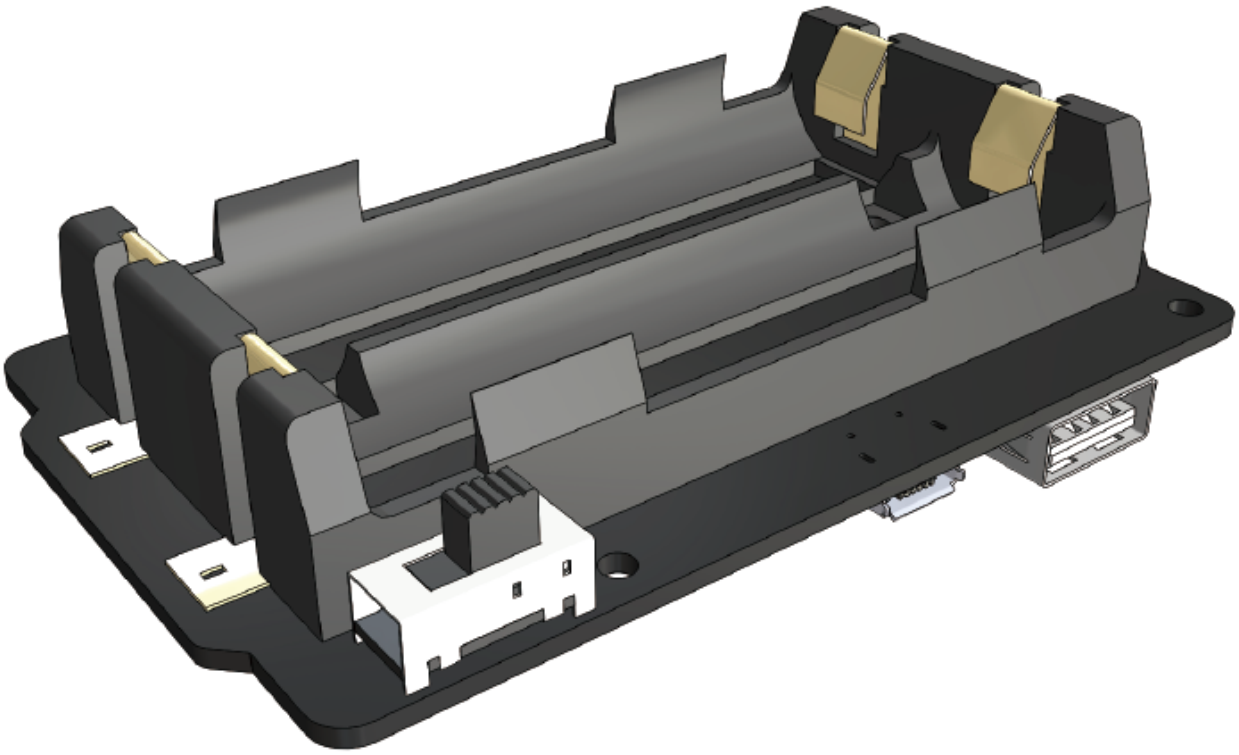
CONTENTS

1 A Power Supply Module for Raspberry Pi **1**
1.1 Introduction 2
1.2 Component 4
1.3 Building the PiPower 5

CHAPTER

ONE

A POWER SUPPLY MODULE FOR RASPBERRY PI



1. Pass through Charging
2. Output: 5V/3A
3. Input: 5V/0.5A-2A
4. Power Switch
5. Battery Indicators
6. Dimension: 90mm x 56mm x 24mm

1.1 Introduction

PiPower is a power supply module for Raspberry Pi with recharging function.

It can output 5V/3A power supply to meet various Raspberry Pi usage situation.

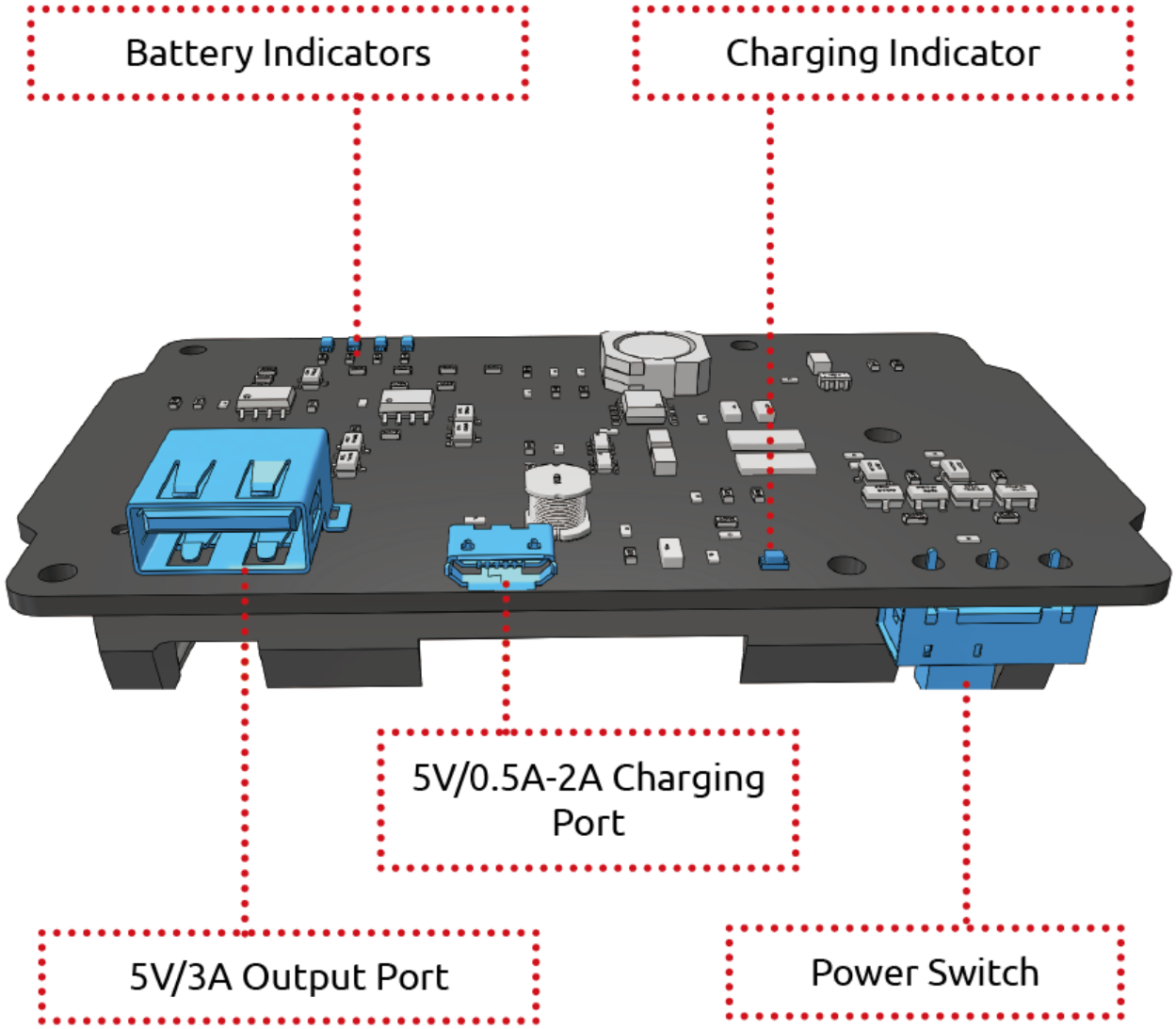
It has 4 power indicators; each indicator represents 25% of the power, and is equipped with a power switch to turn on/off the power of the Raspberry Pi without plugging or unplugging the power cord.

When the battery power is low, you can insert a 5V/0.5A ~ 2A Micro USB cable to charge the batteries, and the charging indicator will light up and turn off when fully charged.

You need to use two 18650 flat top rechargeable batteries. The larger the battery capacity, the longer you use. You can choose according to your needs.

Warning:

1. Please purchase qualified batteries.
2. Pay attention to the poles of the battery, and DO NOT connect to the positive and negative poles inversely.
3. Do not use batteries that are damaged in appearance.


Battery Indicators
Charging Indicator
5V/0.5A-2A Charging Port
5V/3A Output Port
Power Switch

1.2 Component

M2.5x6 Screw (6)

M2.5x11 Nylon Standoff (6)

M2.5x8+6 Nylon Standoff (6)

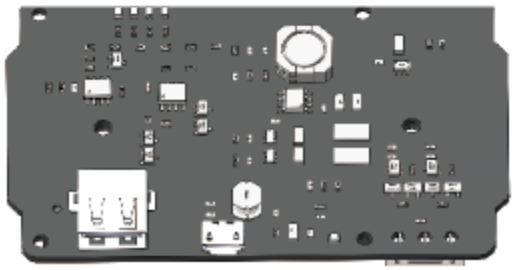
M2.5x20+6 Nylon Standoff (6)

Screwdriver (1)

Type-C USB Cable (1)

Micro USB Cable (1)

Back Cover (1)

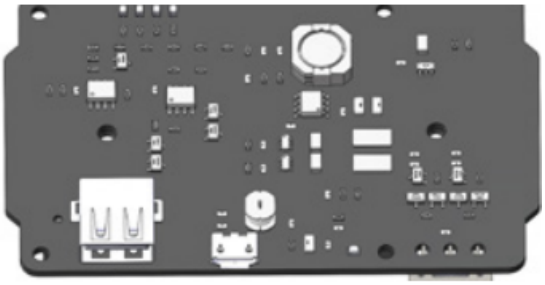


PiPower Module (1)

Type-C USB Cable (1)

Micro USB Cable (1)

Back Cover (1)



PiPower Module (1)

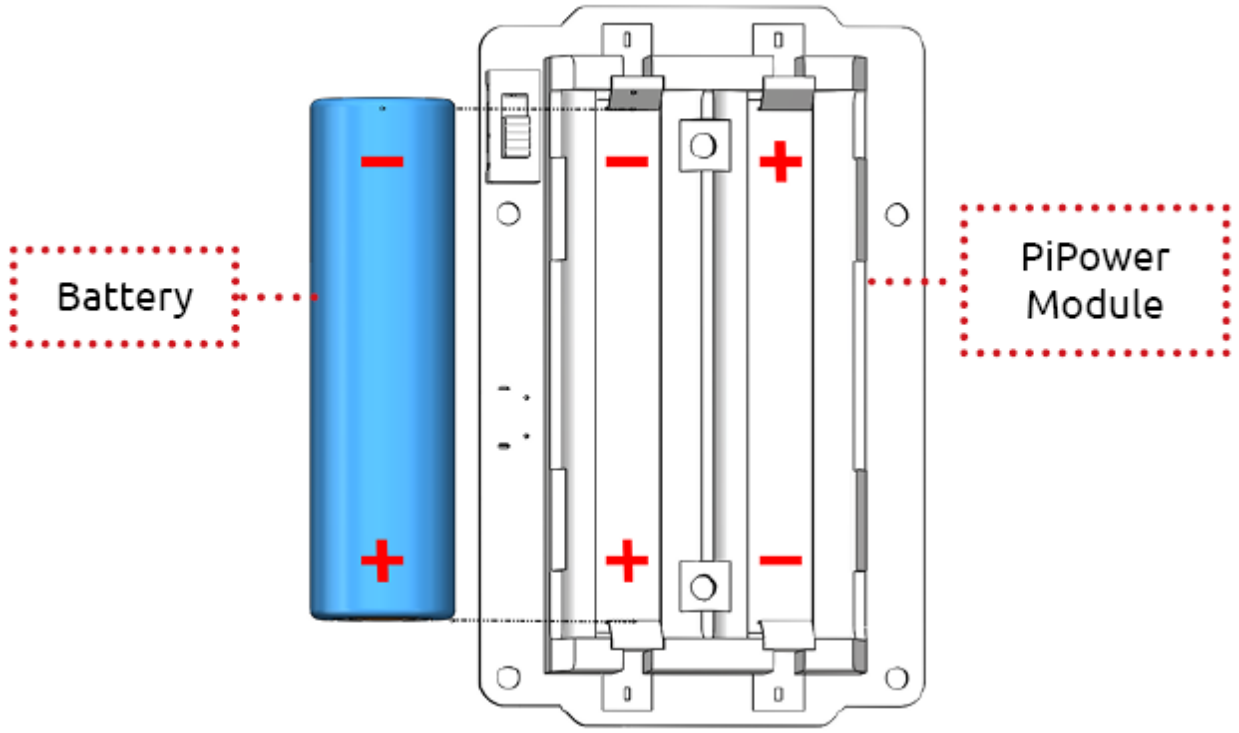
1.3 Building the PiPower

After getting familiar with the components in the package, we start to assemble PiPower.

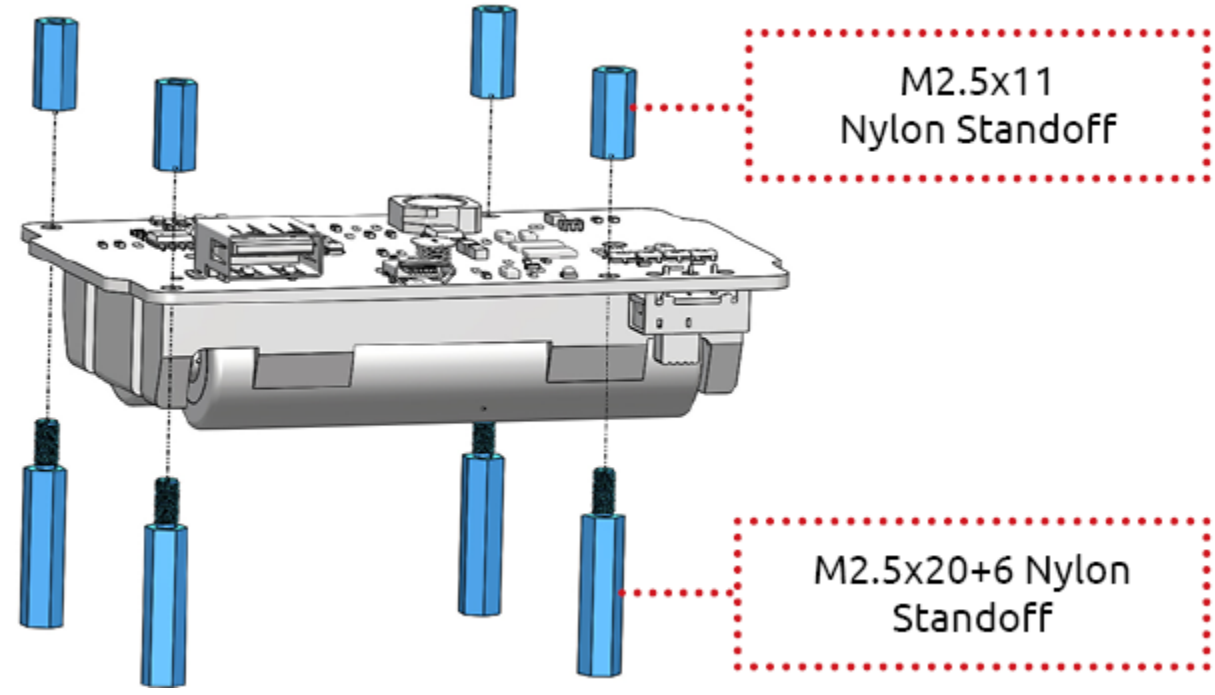
In the next steps, there are a lot of details you need to notice, especially the assembly position of the battery and the clear acrylic back cover.

1.3.1 Place the Battery

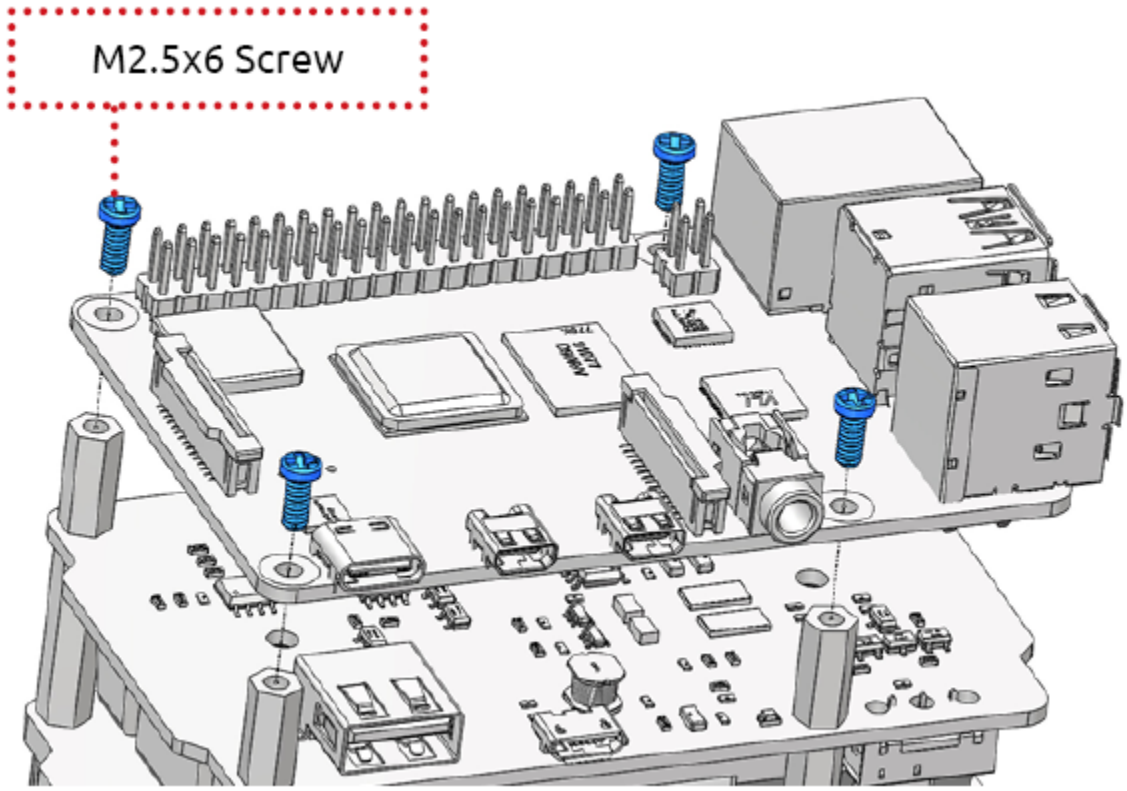
You can place the battery according to it: anode to anode; cathode to cathode.



1.3.2 Assemble the PiPower Module

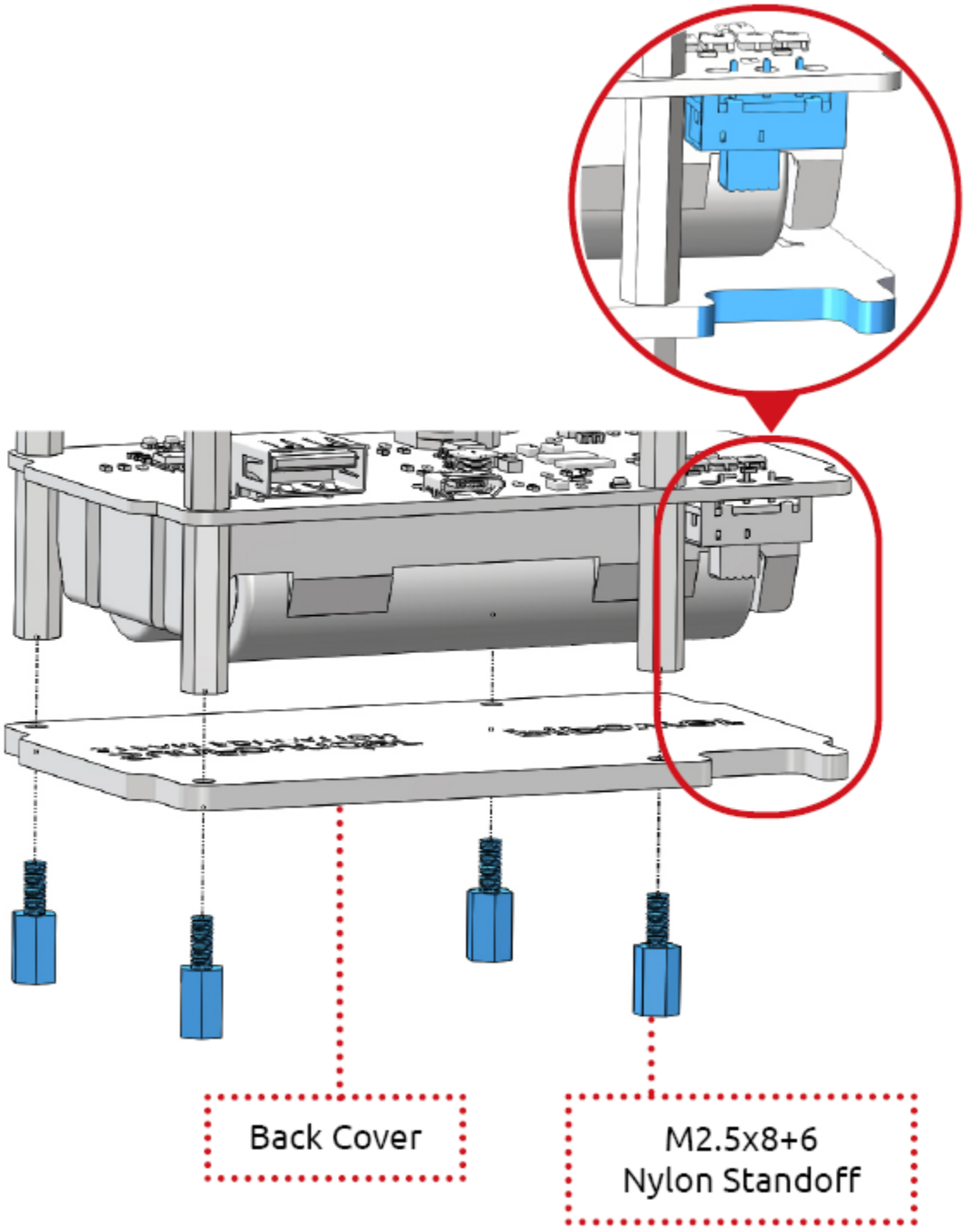


1.3.3 Assemble the Raspberry Pi

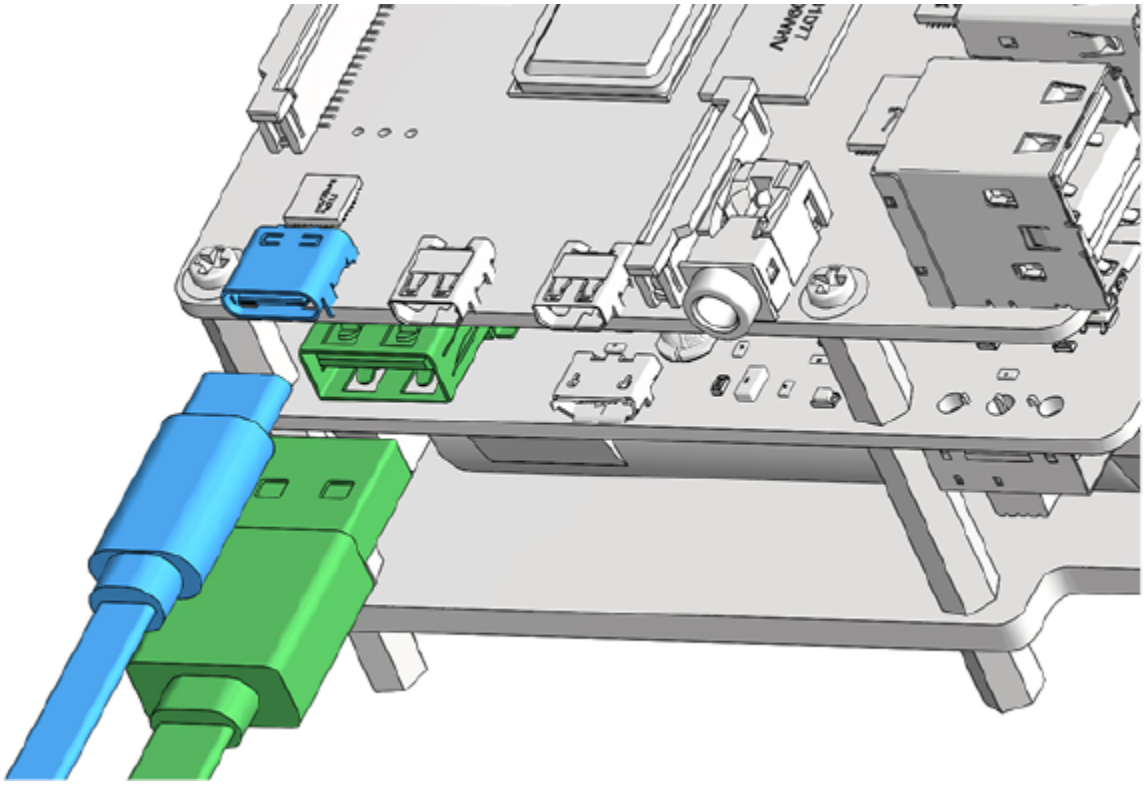
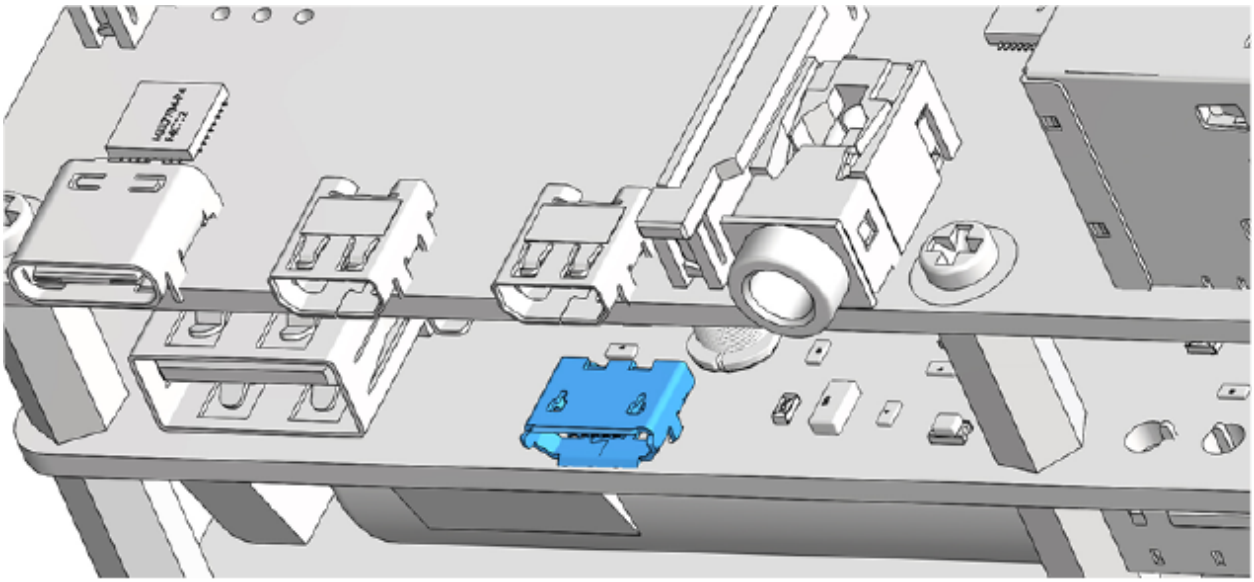


1.3.4 Assemble the Back Cover

Put the gap side of acrylic back cover under the switch of PiPower module so that you can easily power the PiPower on/off.


Back Cover
M2.5x8+6
Nylon Standoff

1.3.5 Plug the USB Cable



When the battery is about to be run out, you can charge the battery through the Micro USB port of the PiPower module.