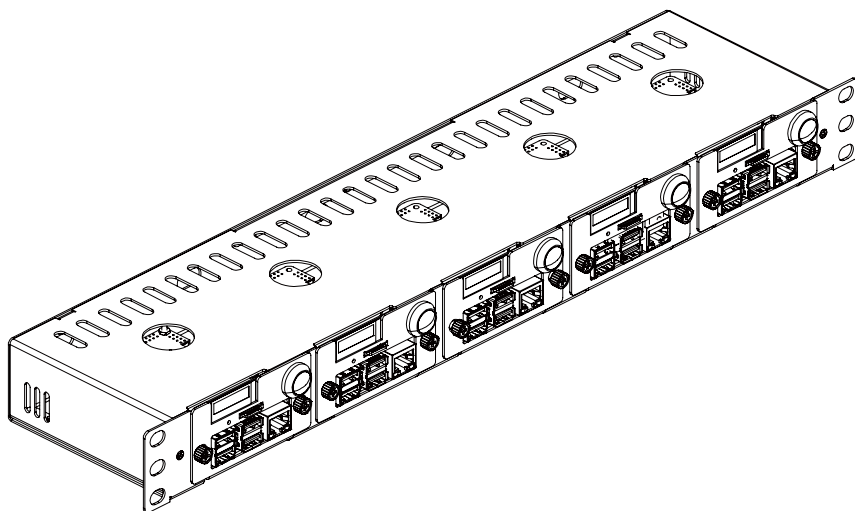


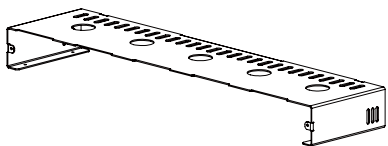
# ASSEMBLY GUIDE

**SKU:** U6187

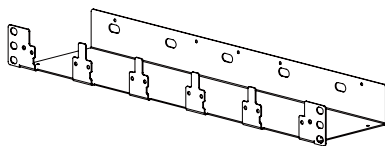




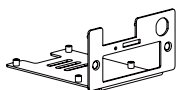
# Package Contents



Top panel×1



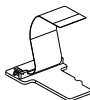
Bottom panel ×1



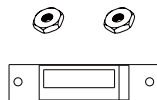
Raspberry Pi mounting bracket×5



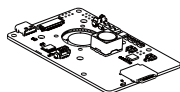
Power button×5



SD card adapter×5



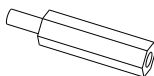
0.91 inch OLED×5  
(Pre-assembled)



PoE HAT ×5



M2.5 nut×20



M2.5\*18 Hex standoff ×20



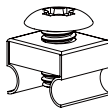
M4 thumbscrew×10



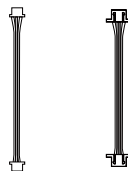
M2.5\*12 countersunk screw×20



M2.5\*4 countersunk screw×11



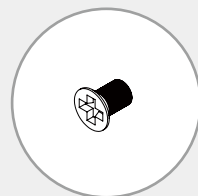
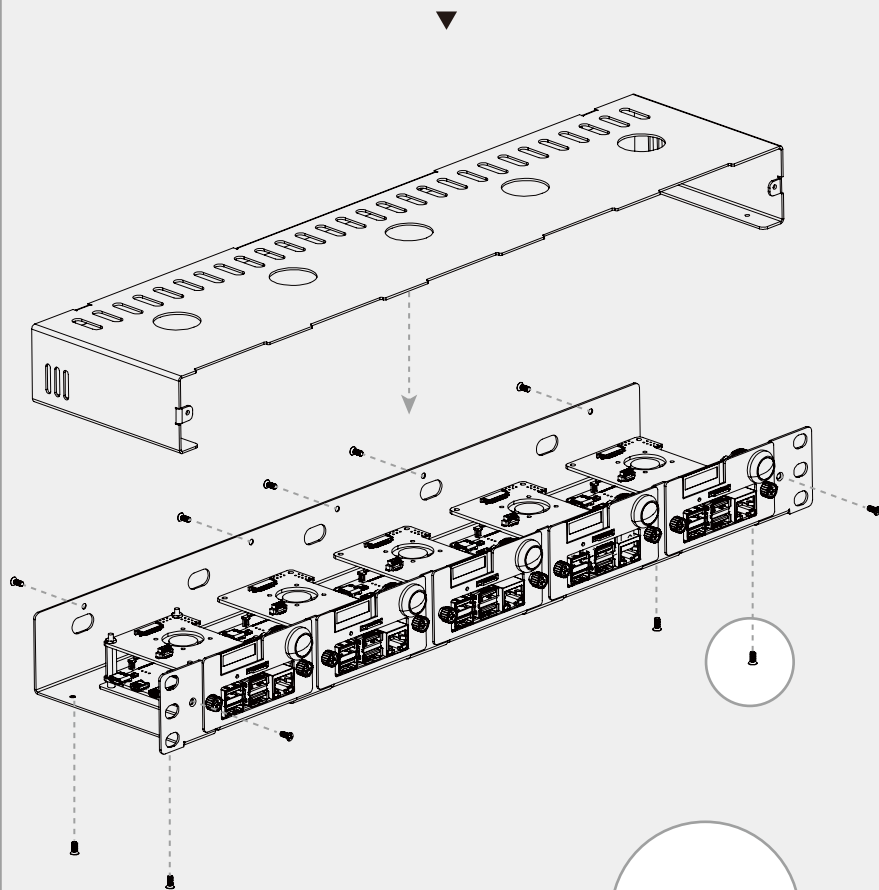
M6\*16 rack screw×4



Wire for Power Switch×1    Wire for Screen×1

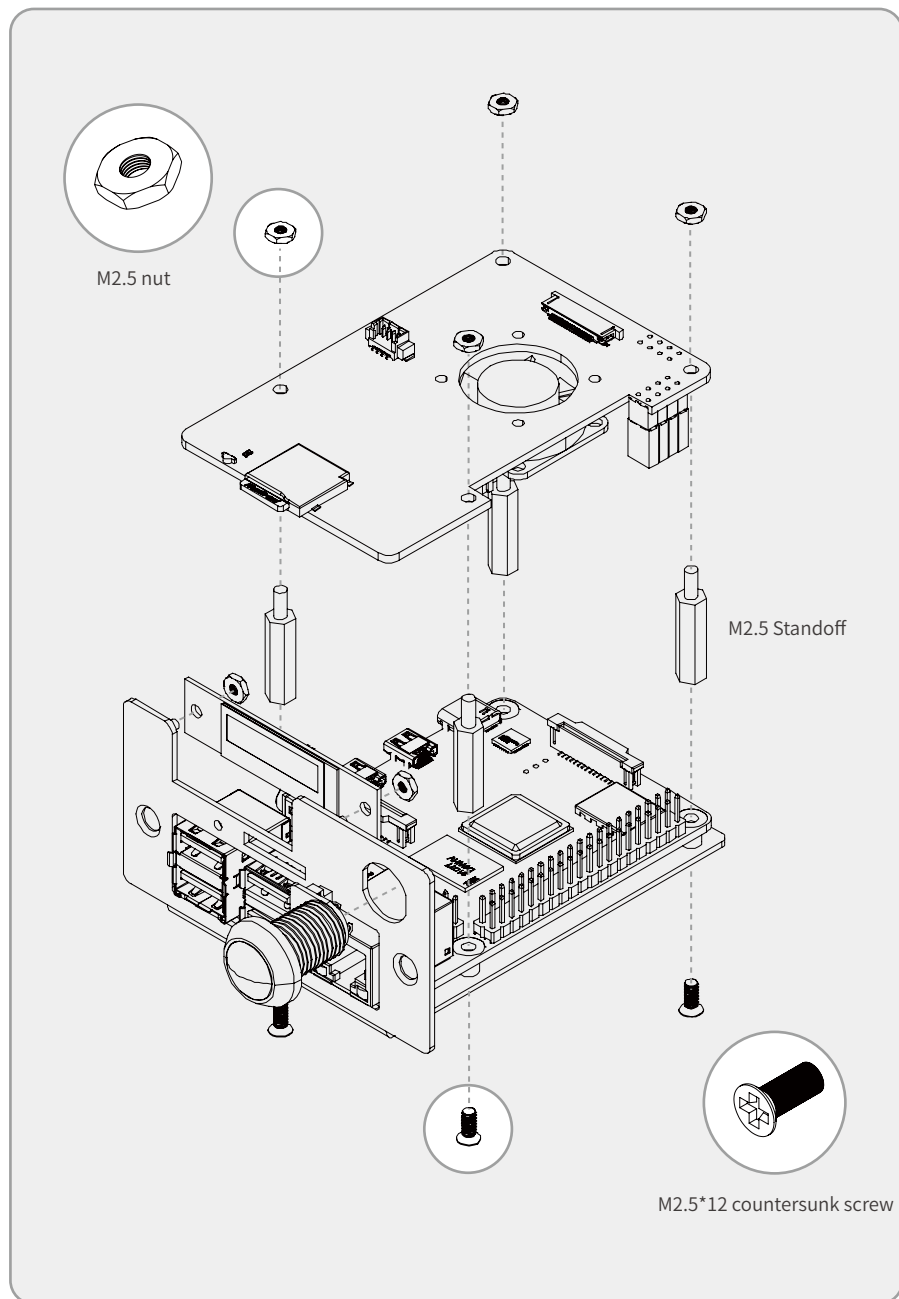
## Exploded View

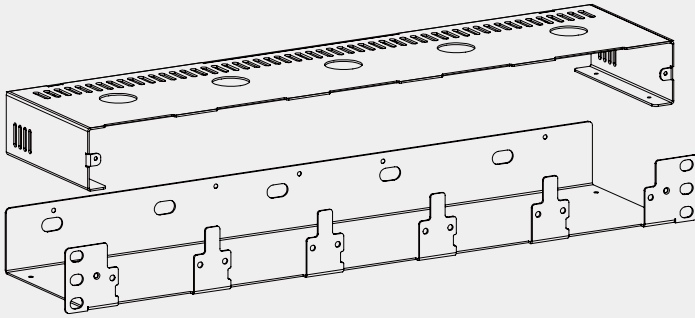
Overall Exploded View



M2.5\*4 countersunk screw

## Exploded View

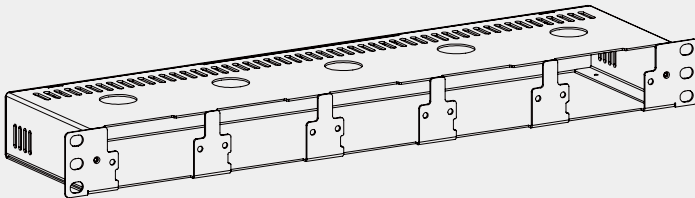




1. Assemble the top and bottom panels.

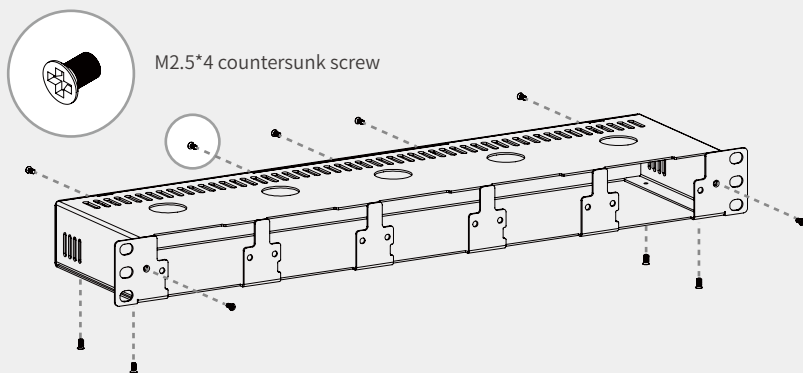


The mounting holes should be aligned one by one.

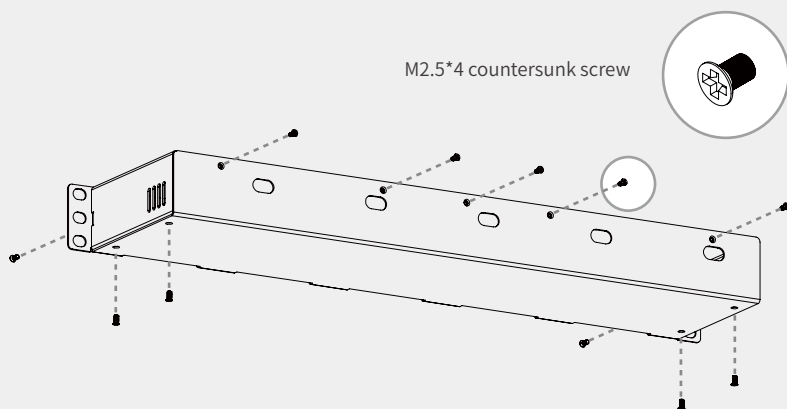


2. Installed schematic

# Installation



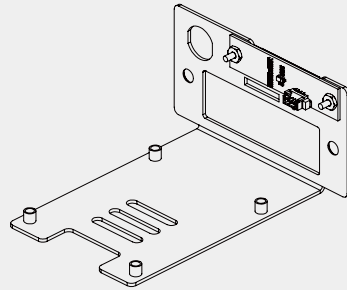
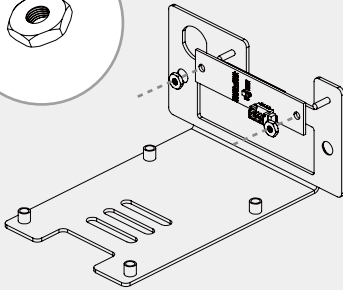
3. Please use M2.5\*4 screws to fix the enclosure.



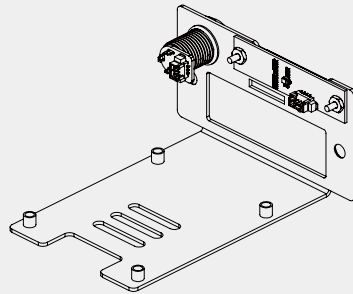
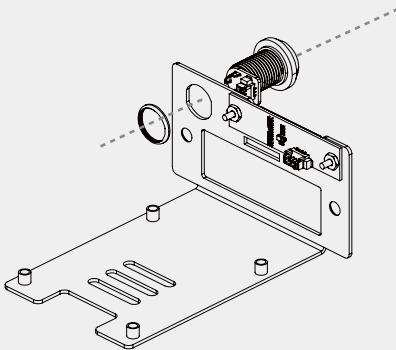
4. Rear schematic



M2.5 nut

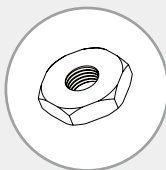
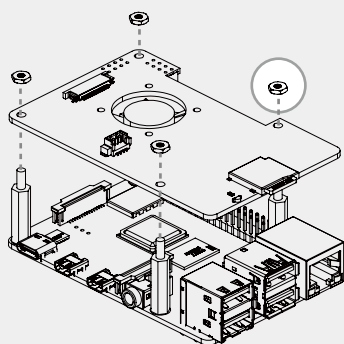


5. Please use M2.5 nuts to fix the OLED display on the mounting bracket. It is pre-installed, so this step can be ignored.

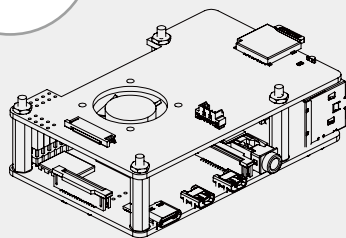


6. Put the rubber washer on the switch, then let the switch go through the hole on the mounting plate and fix it with the silver nut. Please note the orientation of the switch button. Note it come pre-installed, so this step can be ignored.

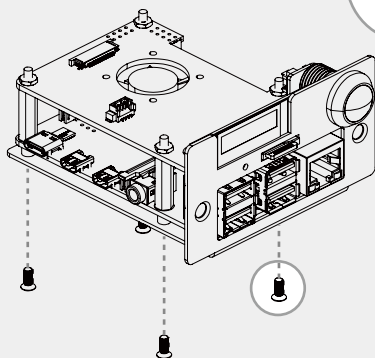
# Installation



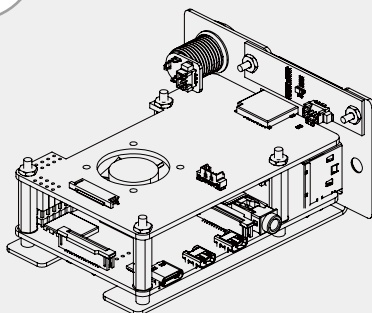
M2.5 nut



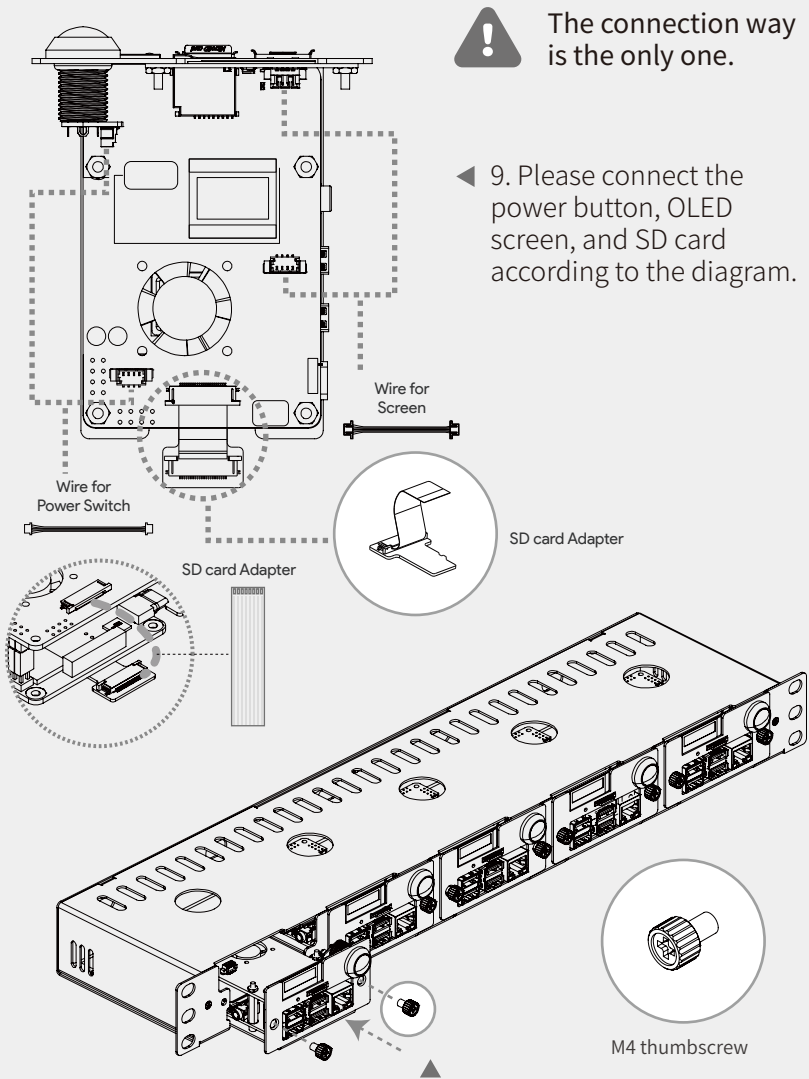
7. Now you just need to fix the Raspberry Pi and PoE HAT with M2.5 nuts and M2.5\*18 standoffs. Please note the Raspberry Pi motherboard is not included.



M2.5\*12 countersunk screw



8. Then, please use M2.5\*12 silver screws to fix the RPi from the bottom of the mounting plate.



10. Finally, insert the 5 installed modules and fix them with M4 thumbscrews. Installation is complete.

# OLED Usage

---

Plug in the OLED and power the Pi back up. Run the following command from the terminal (also known as the shell or command-line interface).

## Step 1 Enable I2C

Choose Interface Options Enable i2c

```
sudo raspi-config
```

Clone U6143\_ssd1306 library

```
git clone https://github.com/UCTRONICS/U6143_ssd1306.git
```

## Step 2 Configure your OLED

### Option 1: Add manual start script

Jump to the C folder:

```
cd U6143_ssd1306/C
```

Compile the program:

```
sudo make clean && sudo make
```

Run:

```
sudo ./display
```

Then save and exit.

Reboot to verify that the screen comes up on boot!

### Option 2: Add automatic start script

If you want it to run whenever you start your Raspberry Pi, you can pretty easily make it so. The fastest/easiest way is to put it in /etc/rc.local.

Run:

```
sudo nano /etc/rc.local
```

Add the following command on a separate line below the **fi**:

```
cd /home/pi/U6143_ssd1306/C
```

```
sudo make clean
```

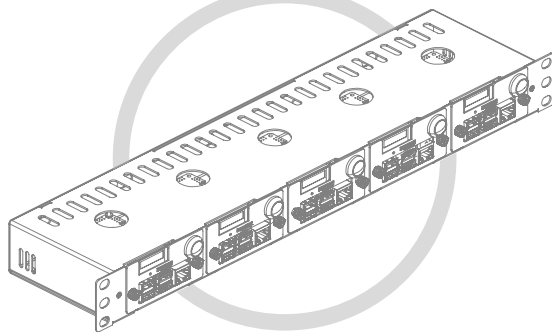
```
sudo make
```

```
sudo ./display &
```

Then save and exit.

Reboot to verify that the screen comes up on boot!

**NOTE:** This script is only available for Raspbian. For more scripts, check out our GitHub page: [https://github.com/UCTRONICS/U6143\\_ssd1306](https://github.com/UCTRONICS/U6143_ssd1306), and we will keep online up-to-date continuously for other OSs.



## CONTACT US

If any problem, feel free to contact us.

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Email: [support@uctronics.com](mailto:support@uctronics.com)

