

UCTRONICS U6187 Complete Ultimate Raspberry Pi Rack Mount Enclosure with PoE Functionality User Guide

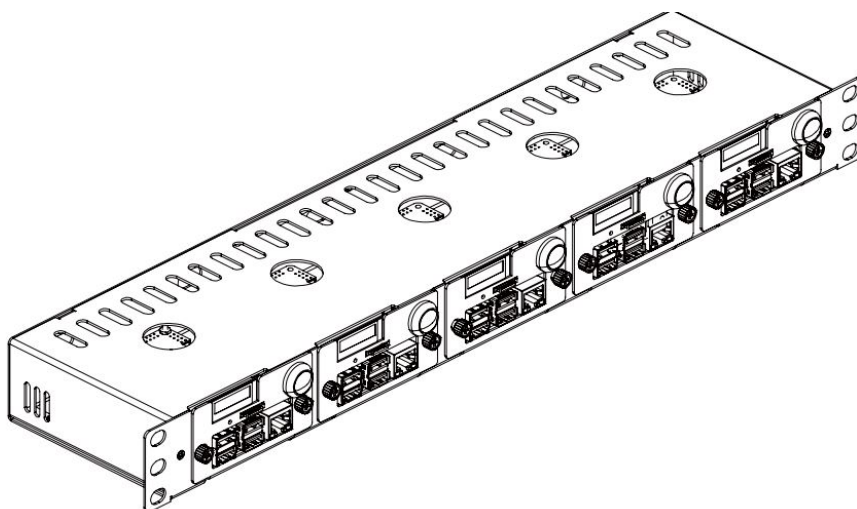
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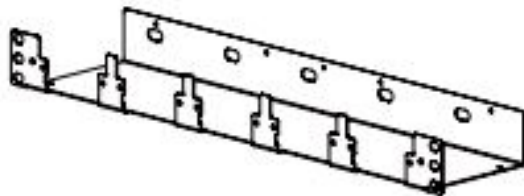




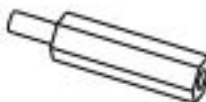


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UCTRONICS U6187 Complete Ultimate Raspberry Pi Rack Mount Enclosure with PoE Functionality



Package Contents

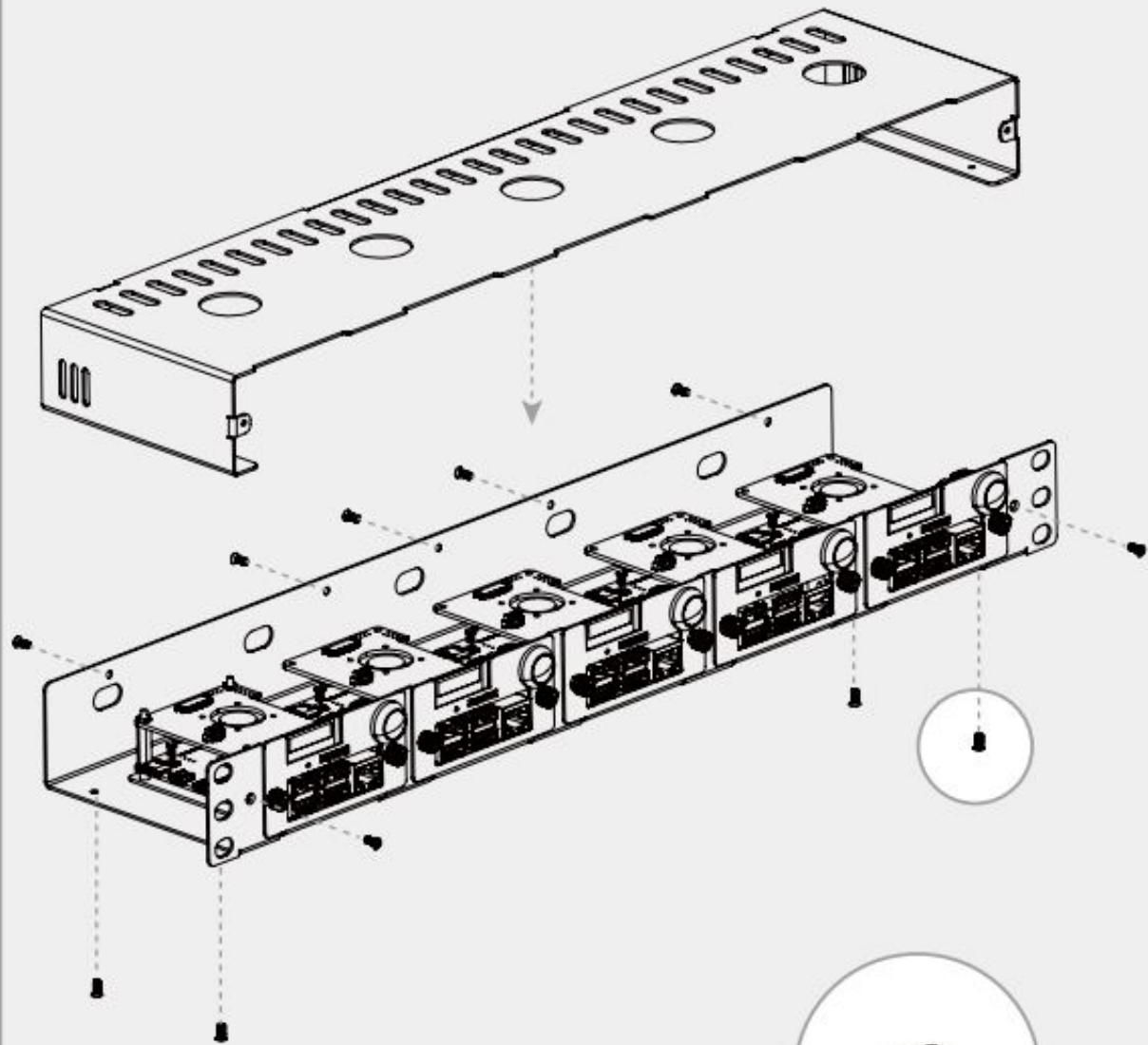
| | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | | |
| 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 |

- Top panel × 1
- Bottom panel × 1
- Raspberry Pi mounting bracket × 5
- Power button × 5
- SD card adapter × 5

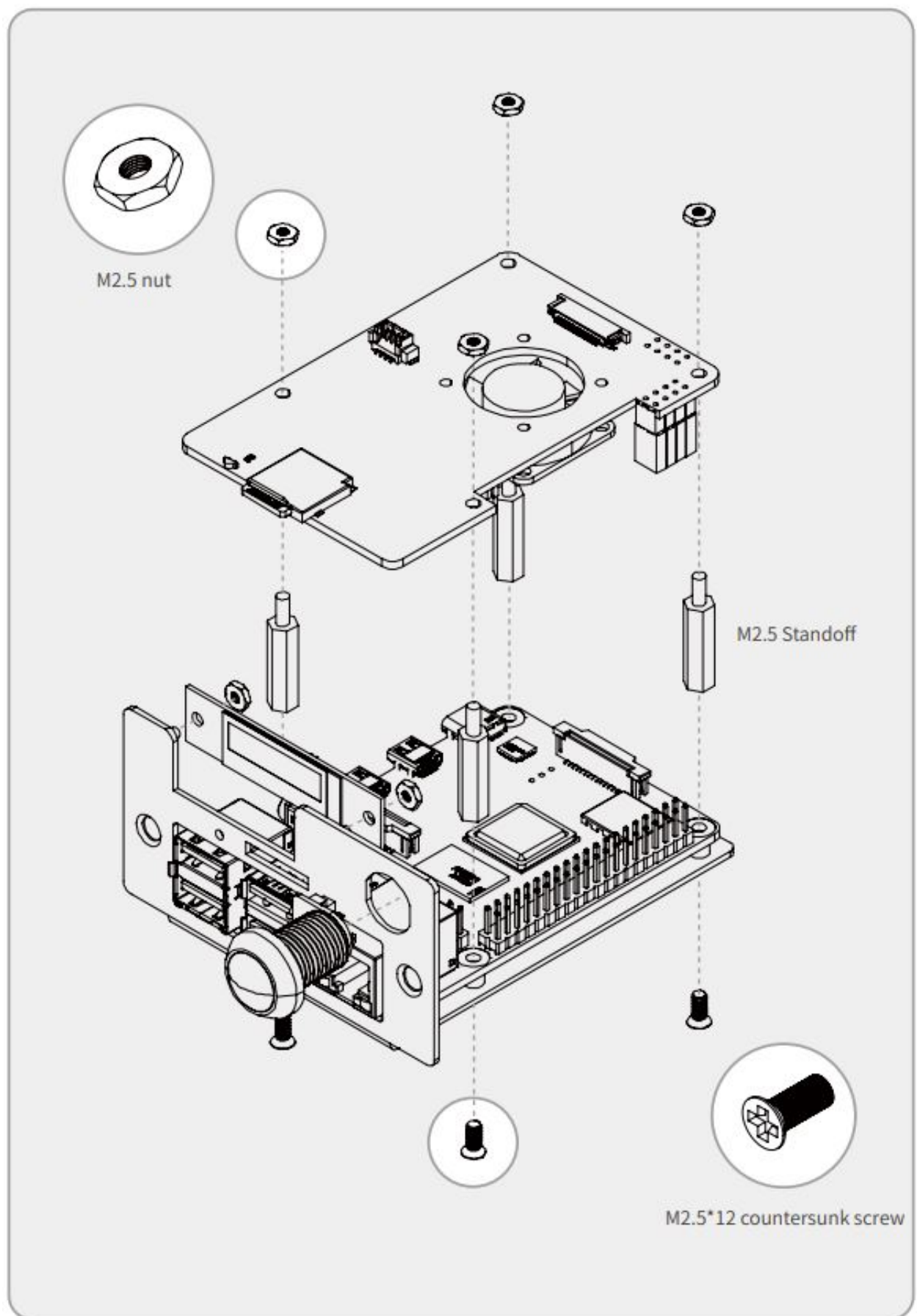
- 0.91 inch OLED×5 (Pre-assembled)
- PoE HAT×5
- M2.5 nut×20
- M2.5*18 Hex standoff ×20
- M4 thumbscrew×10
- M2.5*12 countersunk screw×20
- M2.5*4 countersunk screw×11
- M6*16 rack screw×4
- Wire for Power Switch×1
- Wire for Screen×1

Exploded View

Overall Exploded View

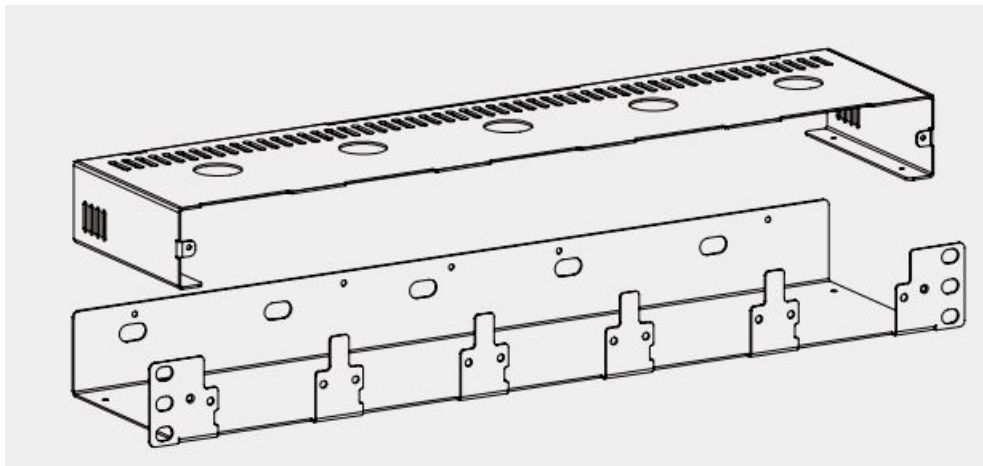


M2.5*4 countersunk screw



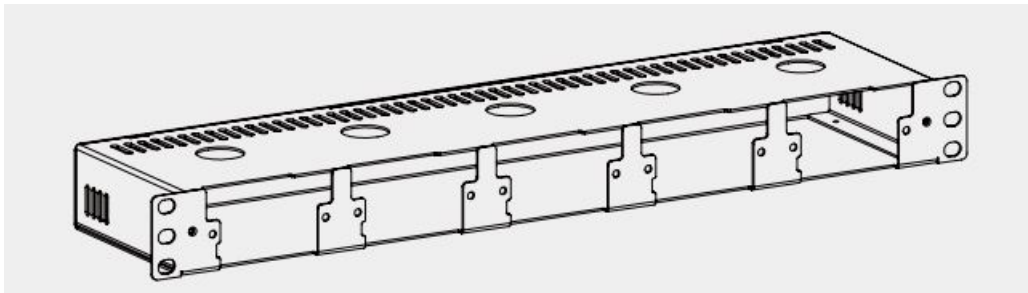
Installation

1. Assemble the top and bottom panels.

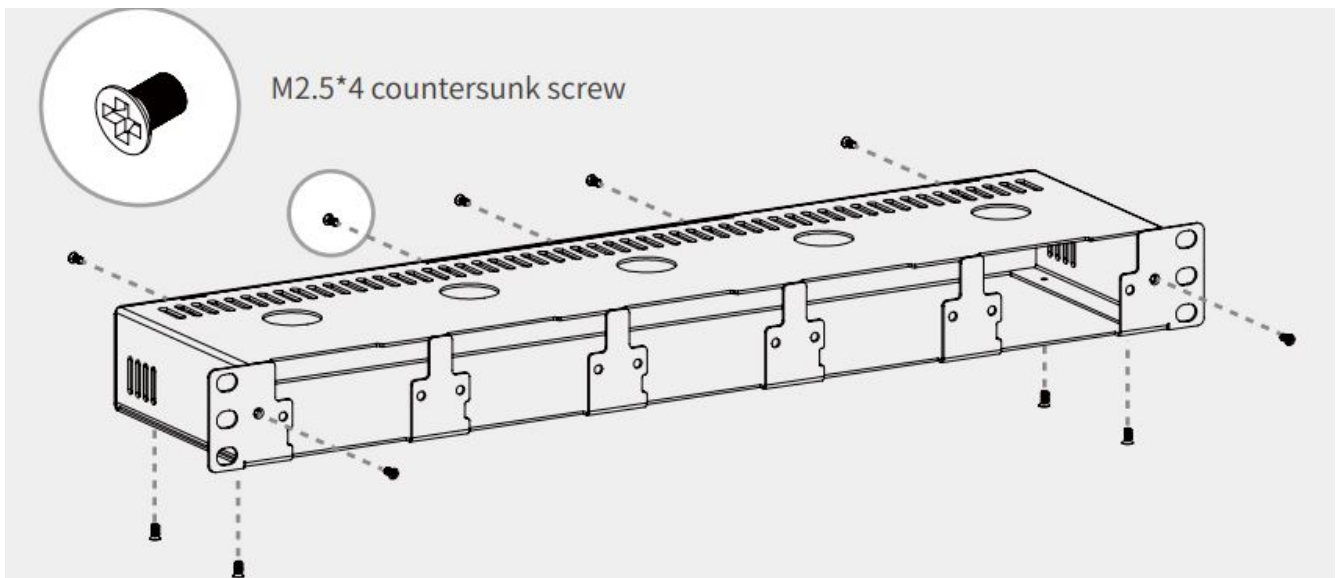


The mounting holes should be aligned one by one.

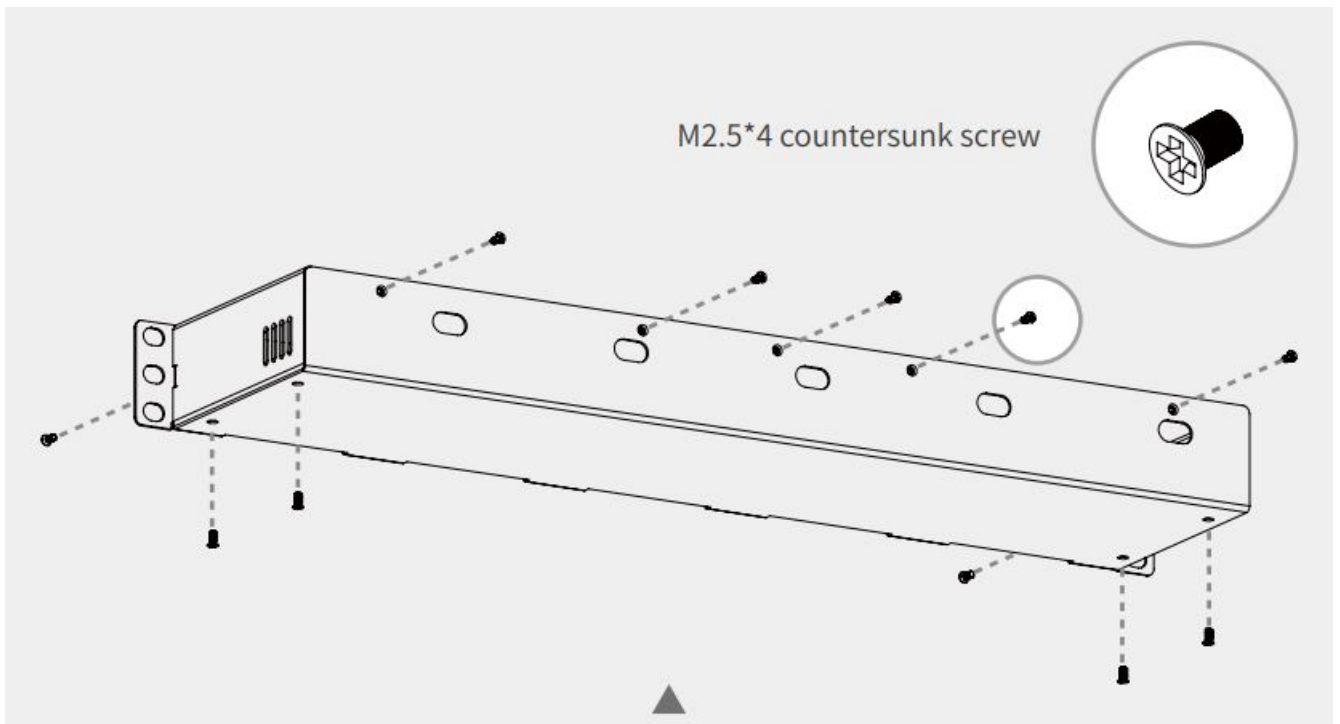
2. Installed schematic



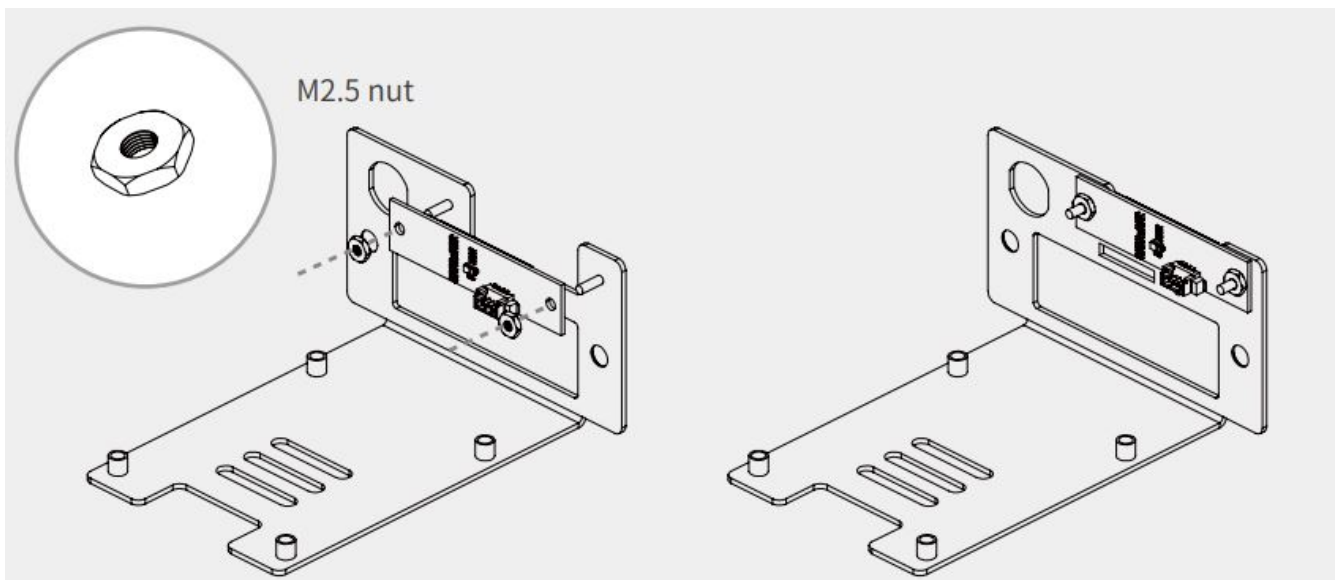
3. Please use M2.5*4 screws to fix the enclosure.



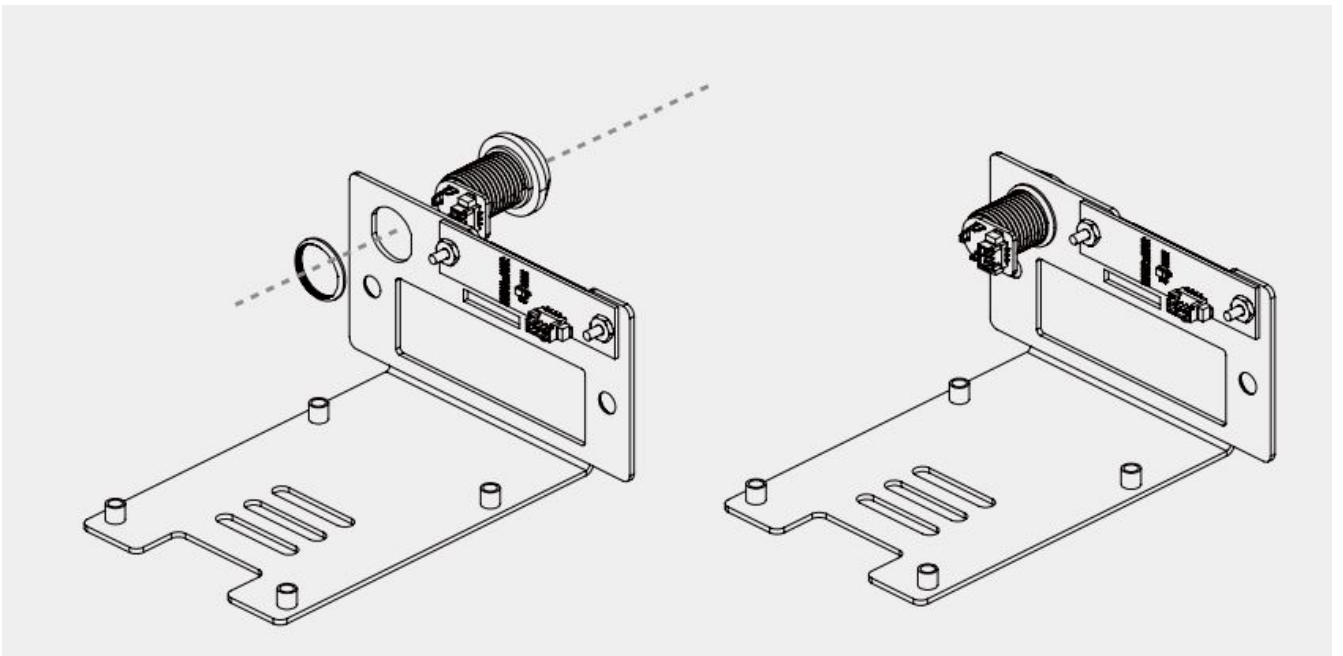
4. Rear schematic



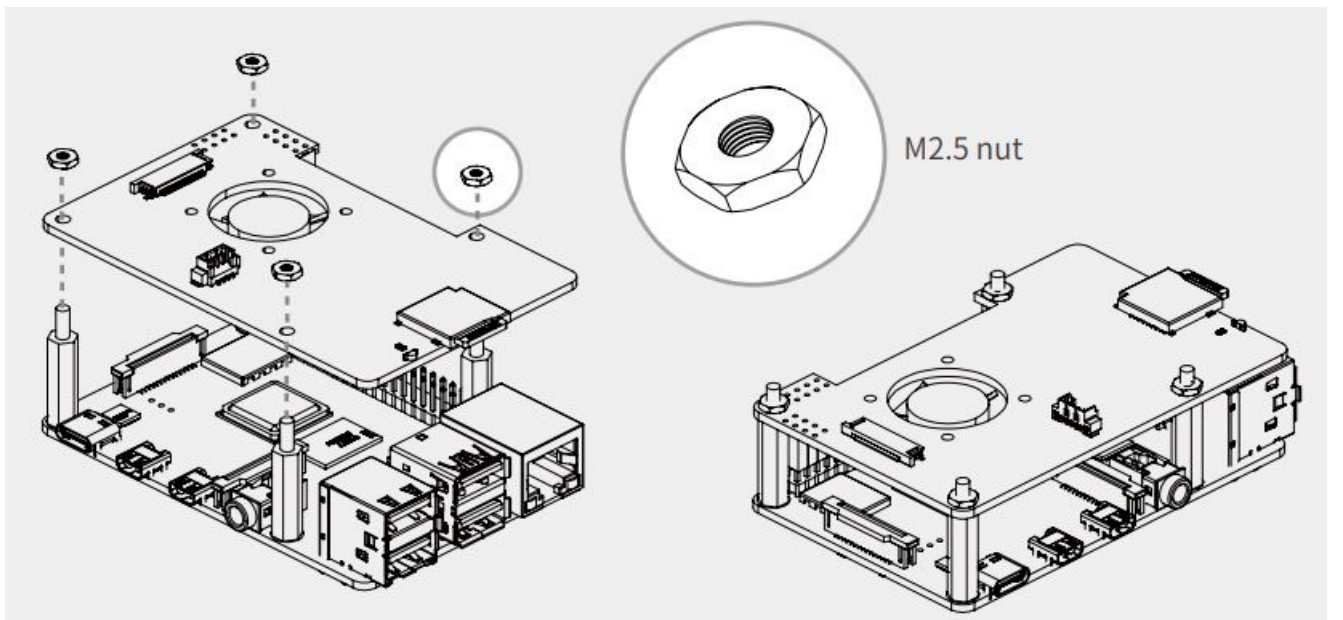
5. Please use M2.5 nuts to fix the OLED display on the mounting bracket. It is pre-installed, so this step can be ignored.



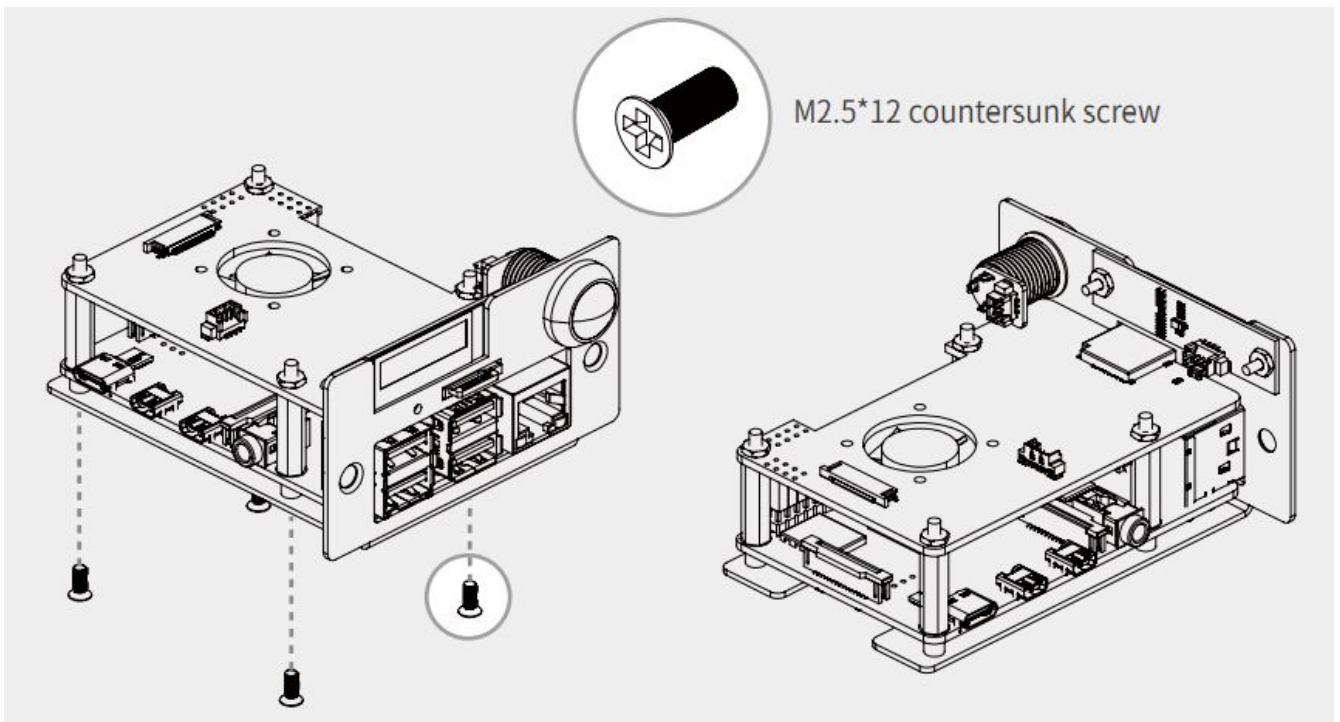
6. Put the rubber washer on the switch, then let the switch go through the hole on the mounting plate and fix it with the silver nut. Please note the orientation of the switch button. Note it come pre-installed, so this step can be ignored.



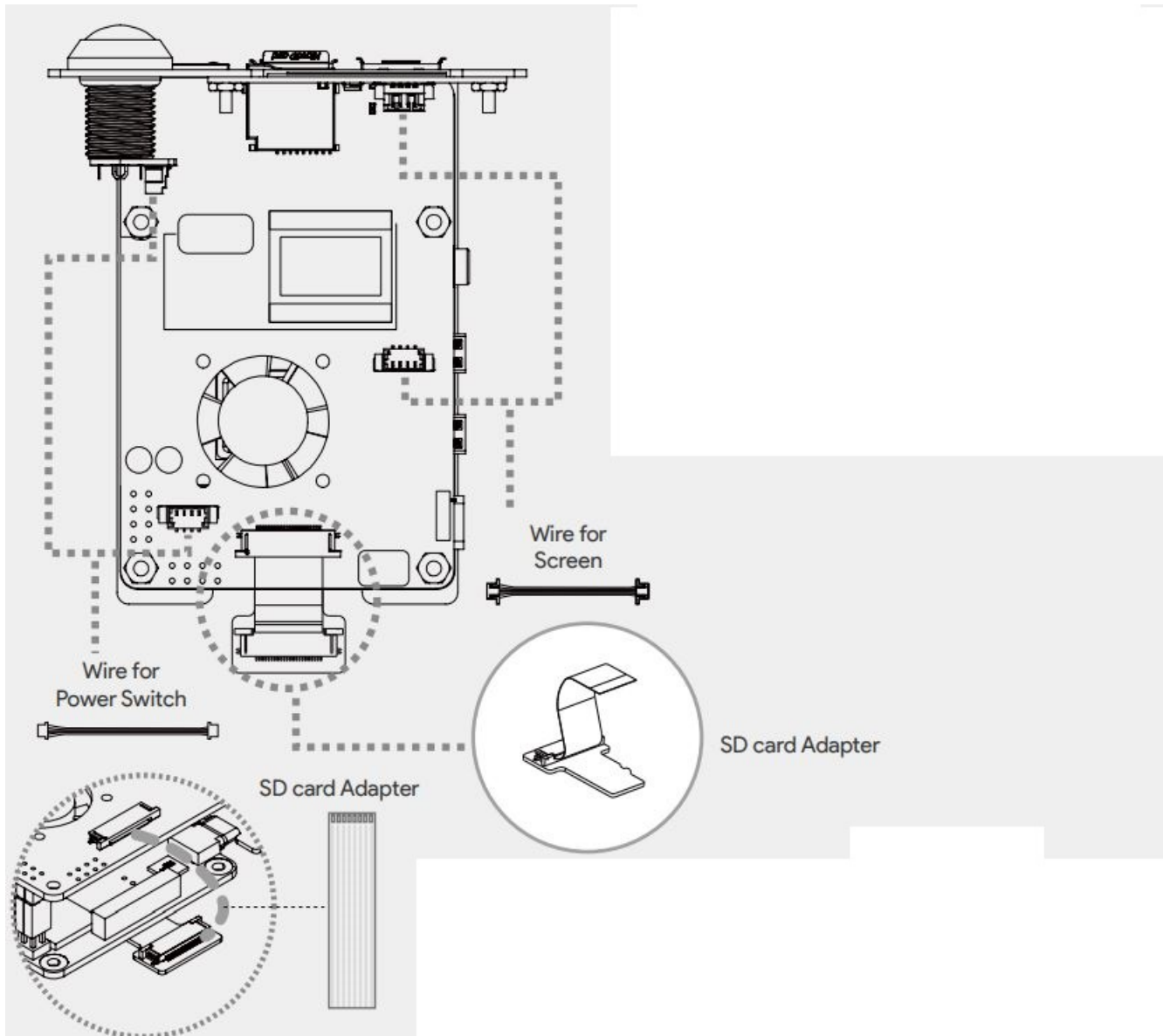
7. Now you just need to fix the Raspberry Pi and PoE HAT with M2.5 nuts and M2.5*18 standoffs. Please note the Raspberry Pi motherboard is not included.



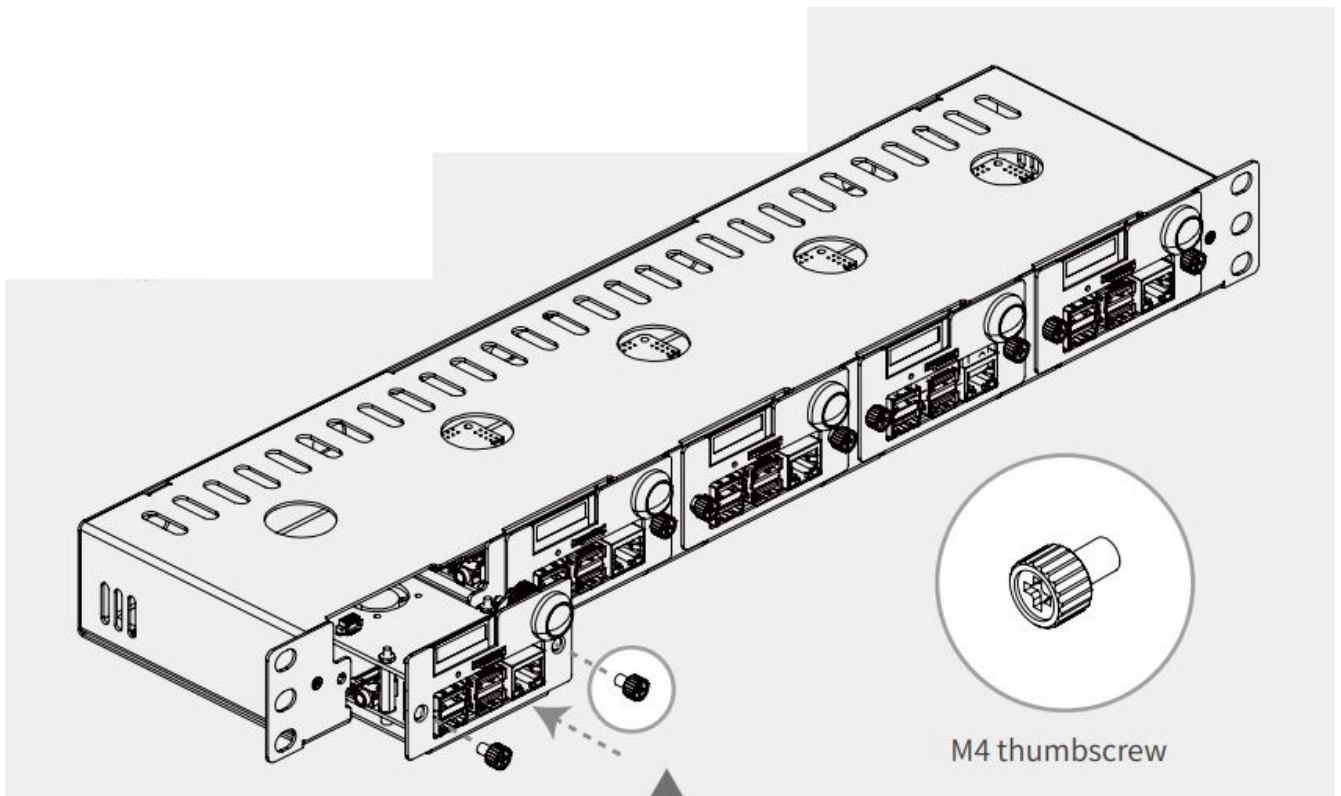
8. Then, please use M2.5*12 silver screws to fix the RPi from the bottom of the mounting plate.



9. Please connect the power button, OLED screen, and SD card according to the diagram .



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, and we will keep online up-to-date continuously for other OSs.

Documents / Resources

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|  The image shows the cover of an assembly guide for the UCTRONICS U6187. It features the UCTRONICS logo at the top, the title 'ASSEMBLY GUIDE' in bold, and the model number 'SKU: U6187' in a small box. Below the text is a photograph of the U6187 enclosure, which is a long, thin, black metal rack mount enclosure with multiple ports on the front. | <p><u>UCTRONICS U6187 Complete Ultimate Raspberry Pi Rack Mount Enclosure with PoE Functionality</u> [pdf] User Guide</p> <p>U6187, Complete Ultimate Raspberry Pi Rack Mount Enclosure with PoE Functionality</p> |
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Manuals+.