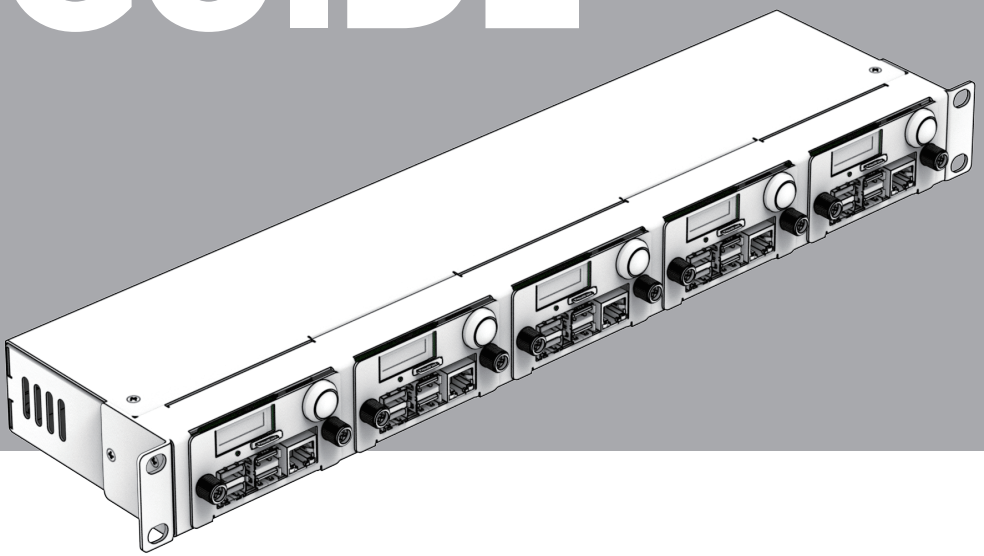
UCTRONICS

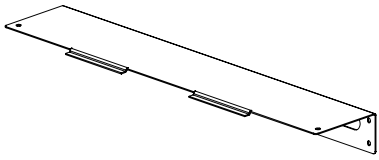
ASSEMBLY GUIDE

RACK MOUNT SERIES www.uctronics.com

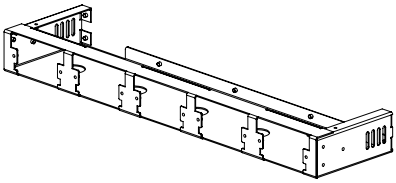


SKU: U6246

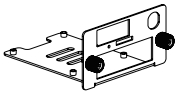
Package Contents



Top panel×1

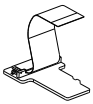


Bottom panel ×1

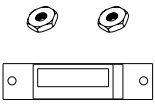


RPi Mounting bracket with M3 loose-off hand screw ×5

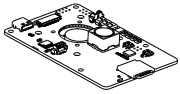
Power button×5
(Pre-assembled)



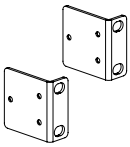
SD card adapter×5



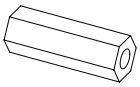
0.91 inch OLED×5
(Pre-assembled)



PoE HAT×5



Side rack bracket ×2



M3*18 Female Hex Standoff ×20

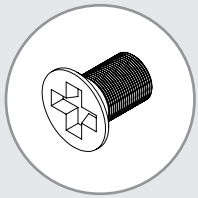
M2.5*25 round head screw ×20

M3*5 countersunk screw×15

M6*16 rack screw×4

Wire for Power Button×5

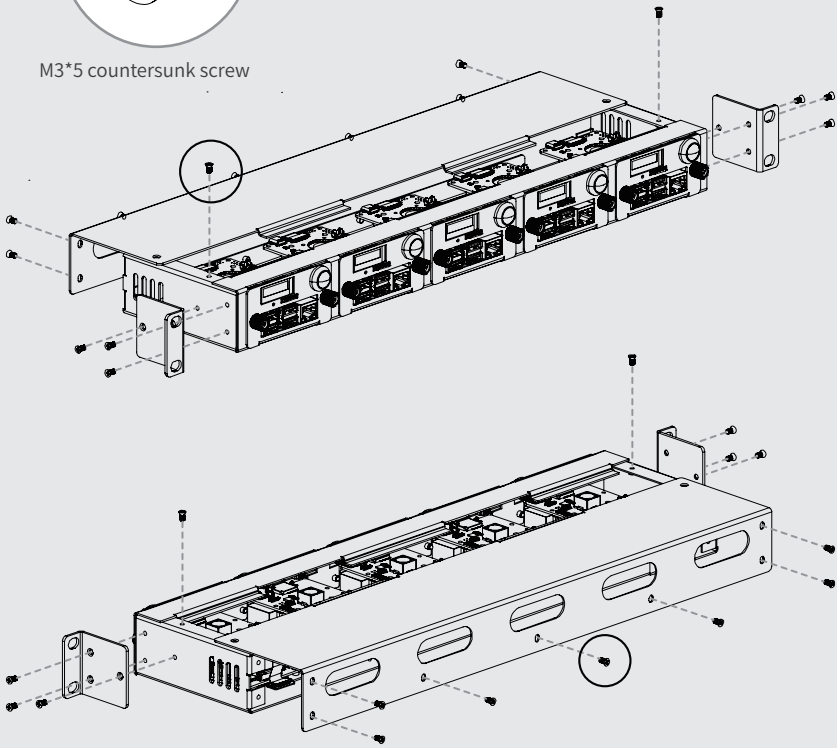
Wire for OLED display ×5

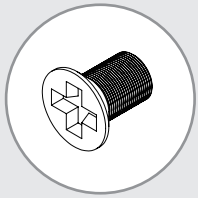


M3*5 countersunk screw

Overall Exploded View

▼

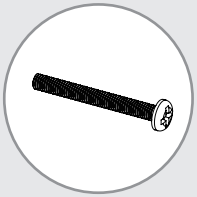




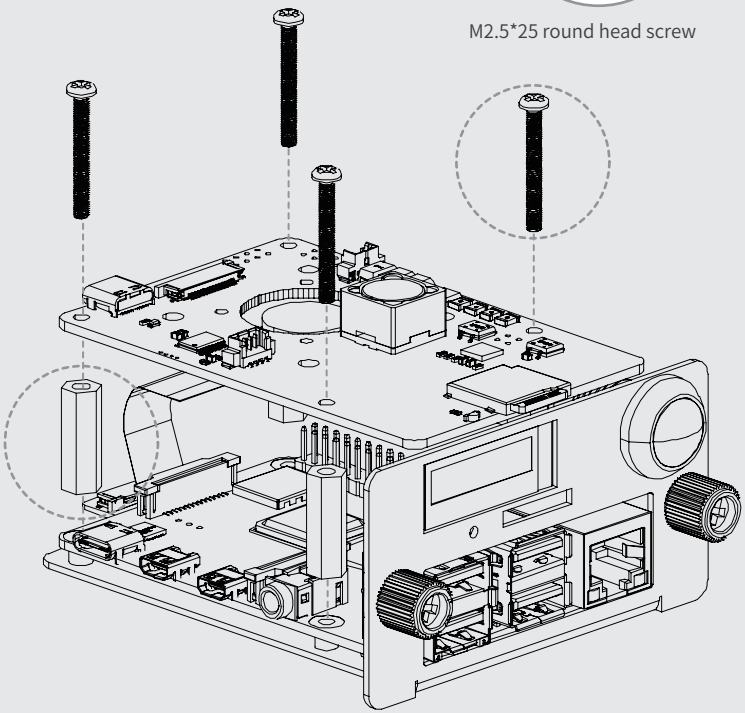
M3*5 countersunk screw

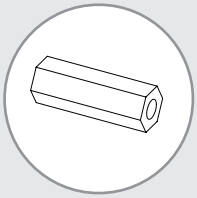
Exploded View

Internal Exploded View

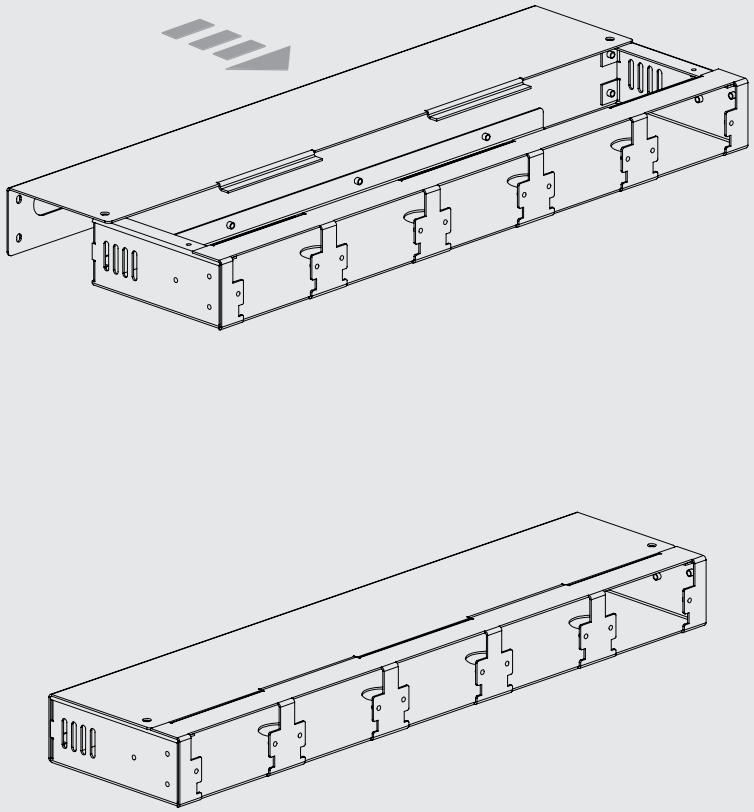


M2.5*25 round head screw

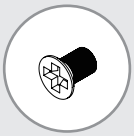




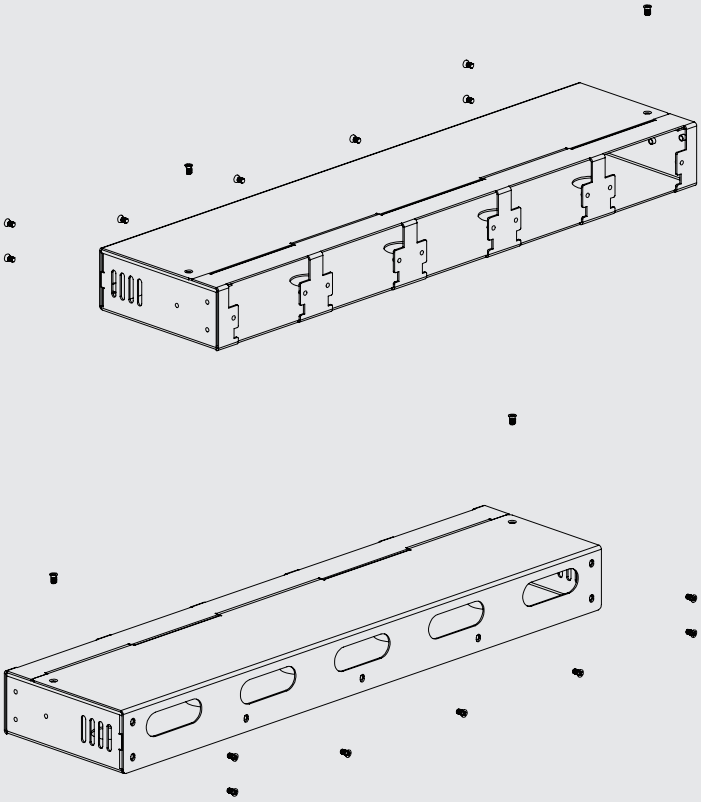
M3*18 Female Hex Standoff



1. Attach the top panel to the bottom panel



M3*5 countersunk screw



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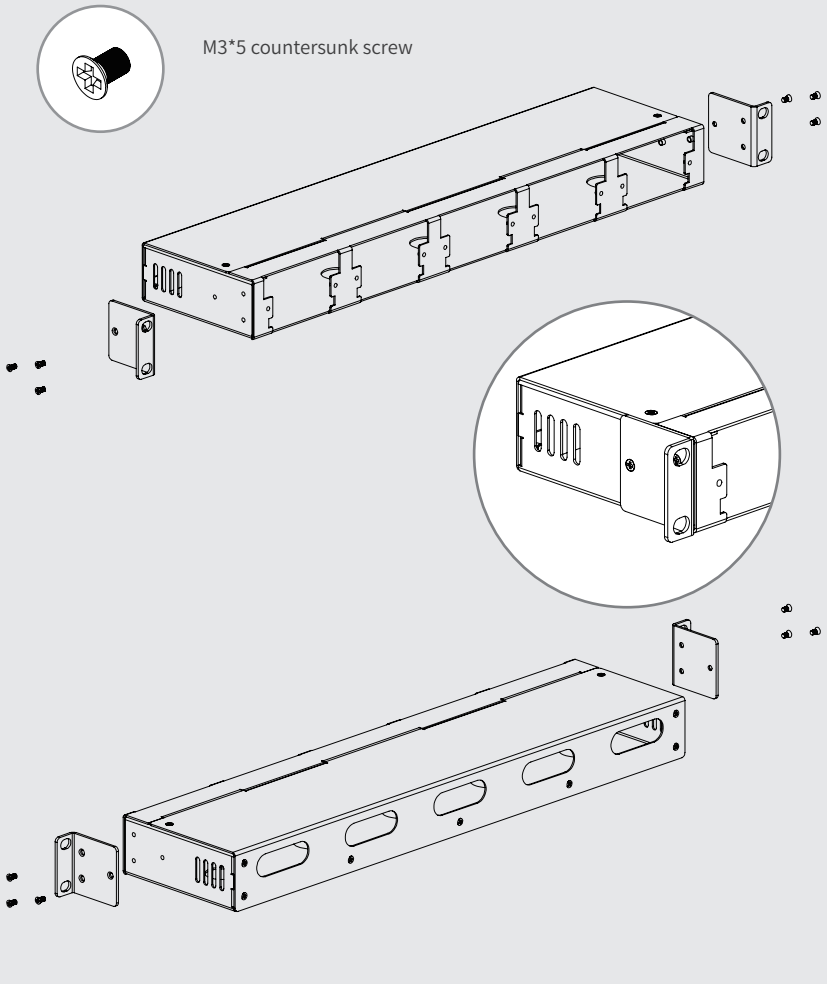
2. Fix the metal housing with M3*5 screws



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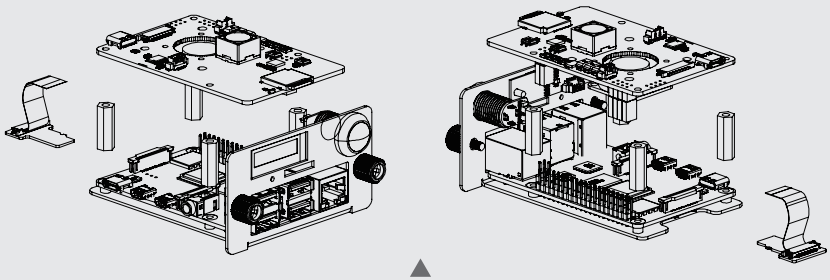
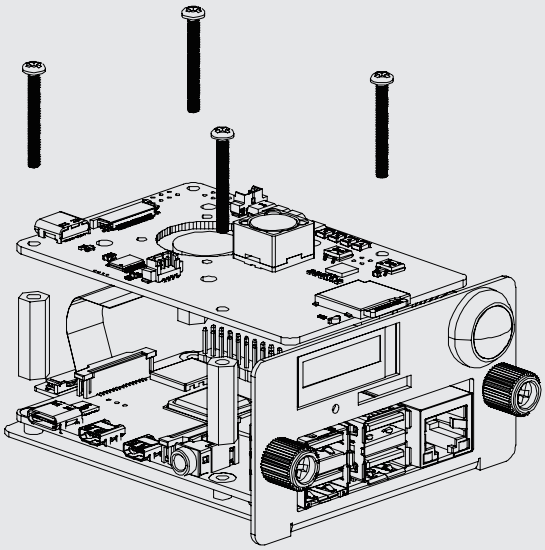
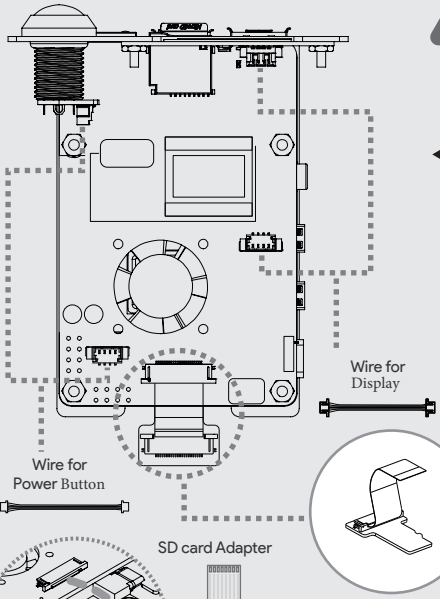
3. Use M3*5 countersunk screws to fix the side bracket to the housing



4. Plug the connector of the PoE HAT into the GPIO pins of the Raspberry Pi, slide the connected whole into the mounting plate, aligning the cutouts and screw holes.

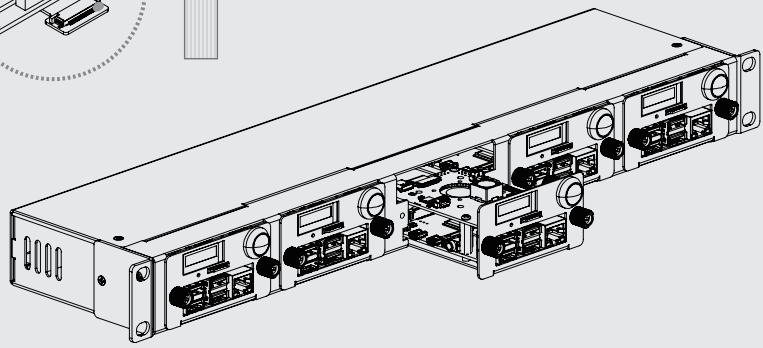


5. Place the hex standoff in the middle of the Pi and HAT, and secure them to the mounting bracket with the long M2.5*25 screws.



The connection way is the only one.

◀ 6. Please connect the power button, OLED display, and SD card adapter according to the diagram.



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7.Just push the 5 installed modules into the housing and simply tighten the loose-off handscrews to complete the installation.

OLED Usage

If you want the OLED display to run when you start your Raspberry Pi, you can easily do so by simply following these steps.

Step 1 Plug in the OLED and power the Pi back up.
Step 2 Enable I2C
Run the following command from the terminal (also known as the shell or command-line interface).
Choose Interface Options Enable i2c

```
sudo raspi-config
```

Clone U6143_ssd1306 library

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

Step 3 Configure OLED display script
Option 1: Add manual start script
The following scripts need to be configured for each restart.
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 automatically whenever you start the Raspberry Pi, the fastest/easiest way is to put it in /etc/rc.local.

Run:

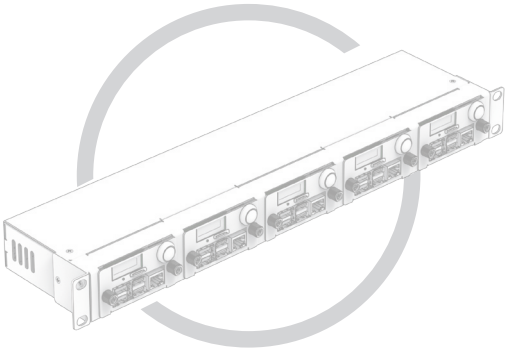
```
sudo nano /etc/rc.local
```

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 Raspberry Pi OS. 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.



CONTACT US

If any problem, feel free to contact us.

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