UCTRONICS

Pi Rack™ SKU: U6143

ASSEMBLY GUIDE
Mounting and Wiring Guide

Package Contents
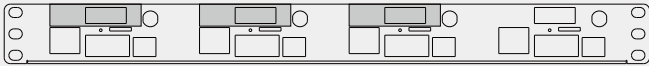
1 Rackmount *1 (with pre-installed OLED display and OLED sticker）
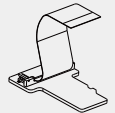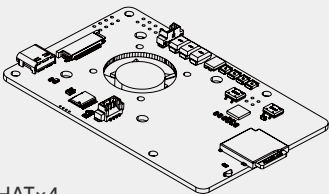
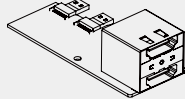**4** Power button×4

5 Rubber washers and nuts for Power button×4
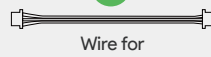
6 SD Card adapter×4

2 HAT×4

3 HDMI adapter×4
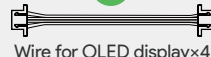
7 Wire for OLED display×4

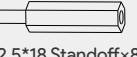**8** Wire for Power button×4
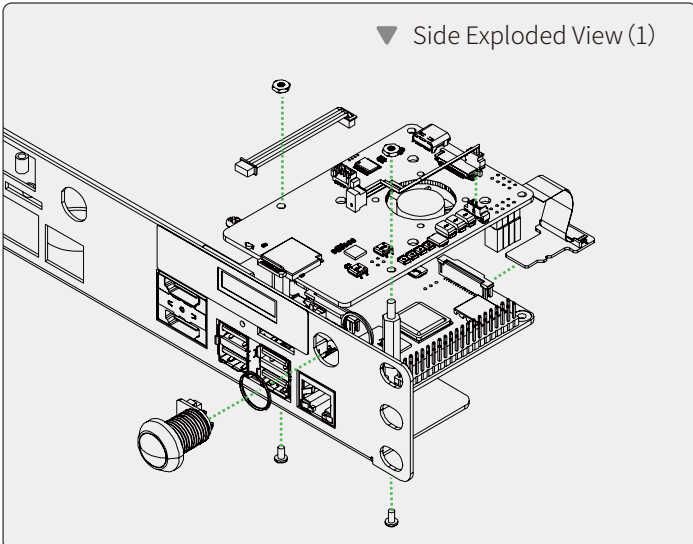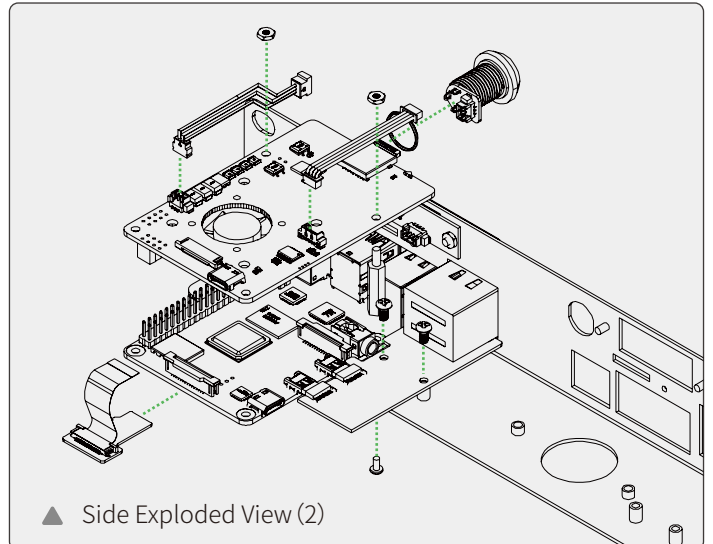
10 M2.5*5 screw×8
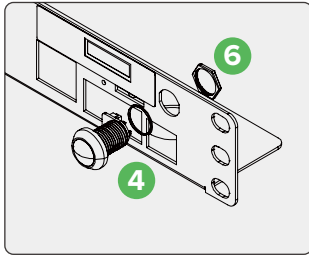
9 M2.5*12 screw×8

12 M2.5 nut×8

11 M2.5*18 Standoff×8

Exploded View

▼ Side Exploded View（1）

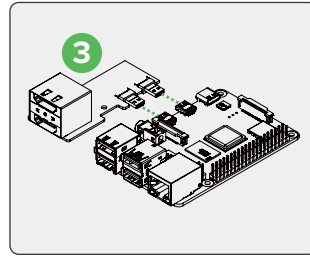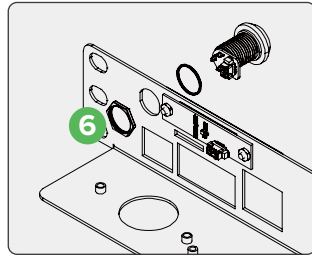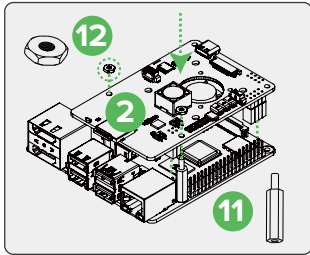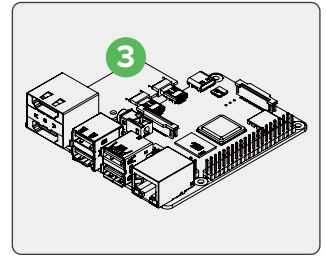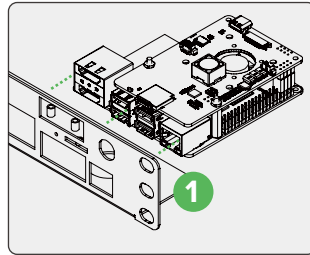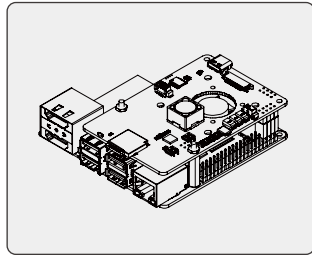▲ Side Exploded View（2）

▲ 1. Install the power button with the rubber washer and nut, as shown above.
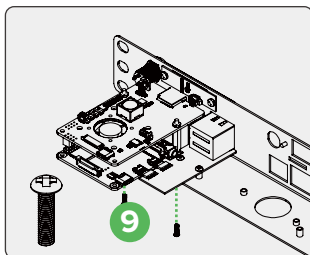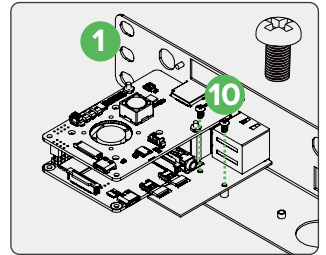

▲ 2. Plug the HDMI adapter board into the Raspberry Pi.
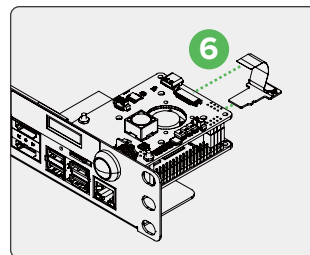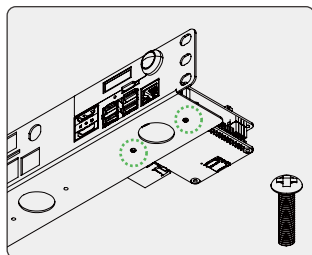

▲ 3. Attach the M2.5*18 standoffs on the HAT ,fix it with M2.5 nuts, then simply sit the board right on top of the pins and insert it vertically downward.


▲ 4. Insert the installed Raspberry Pi, pay attention to align with the slot on the bracket, then fix the HDMI board with M2.5*5 screws.
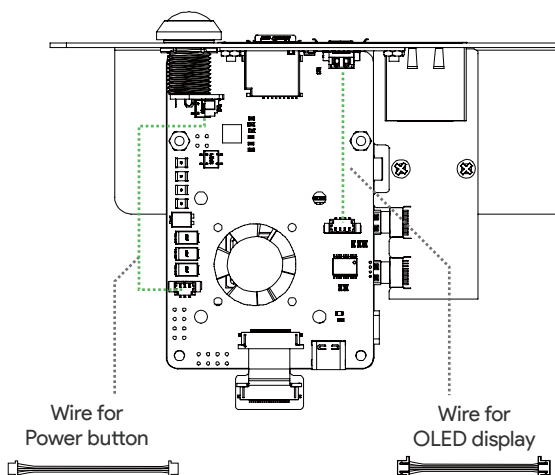

▲ 5. Flip the rackmount over and fix the Raspberry Pi with M2.5*12 screws.

▲ 6. Stick the SD card adapter into the slot of the Raspberry Pi and PoE HAT. Ribbon cable should be attached to the connector with the silver facing downwards the HAT

Wiring

Wire for Power button

Wire for OLED display
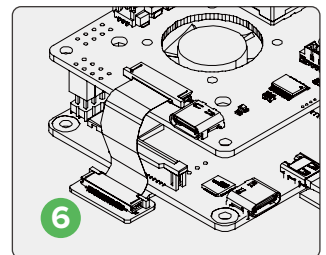
Demo Code

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 Open the rc.local file

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

Step 3 Add command to the rc.local file

```
cd /home/pi/U6143_ssd1306/C
sudo make clean
sudo make
sudo ./display &
```

Step 4 Reboot your system

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.