FIT0677 Aluminum Heatsink Case for LattePanda V1

Assembly Manual



01 Check



Check all the parts in the package and make sure the parts are complete.

- The top panel (with Logo) x1
- The side panel x4
- L Bracket x2
- L Bracket with wing shaped plate x2
- Heat-dissipation module x1
- Switch button x2
- IPEX to SMA adapter x1
- SMA Wi-Fi & BT antenna x1
- Thermal pad x2
- M3 cross screw x12



Note: A **M3 Cross Screwdriver** is needed during the assembly.



Assembly of the Heatsink

The parts used:

- LattePanda board x1
- Heat dissipation module x1
- Thermal pad x2
- M3 cross screw x4





Fit Thermal Pad

The parts used:

- Heat-dissipation module x1
- Thermal pad x2

- 1. Split plastic films on both sides of the thermal pad.
- 2. Fit the thermal pads on these two positions indicated with red frame lines.



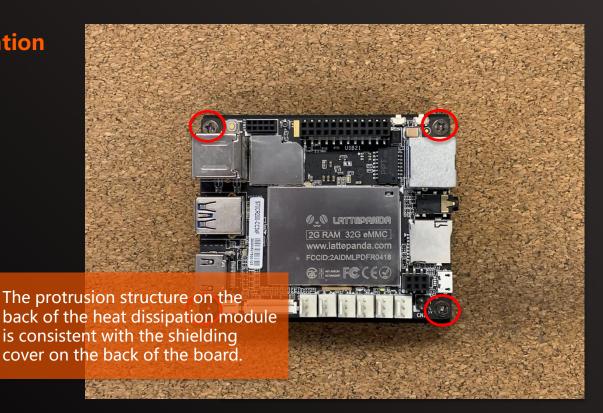


Mount the Heat-dissipation Module

The parts used:

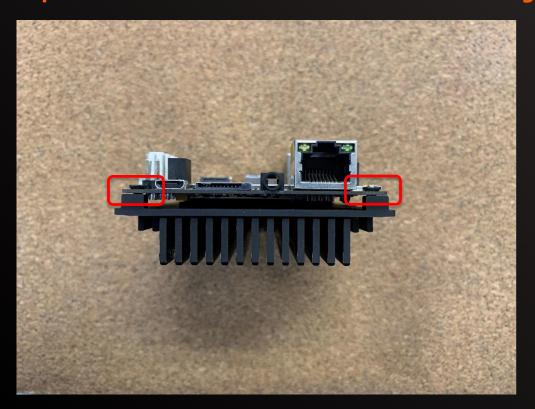
- LattePanda board x1
- Heat-dissipation module x1
- M3 cross screw x4

- 1. Mount the board on the heat-dissipation module.
- 2. Turn the screws on the corners.





Tips: There is no need to turn the screws too tightly



Because the thermal pad needs to be fully filled with heat-dissipation module and board to play the role of heat conduction. In the material selection, we specially selected a slightly thicker specification than the gap to ensure the conduction. Therefore, turn the screws too tightly may cause the board to be bend.

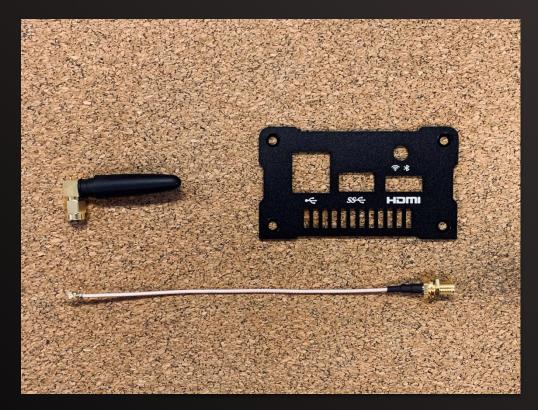


Assembly of the Antenna

The parts used:

- The side panel x1
- IPEX to SMA adapter x1
- SMA Wi-Fi & BT antenna x1

Note: Please use the side panel with antenna installation hole.





Install IPEX to SMA Adapter

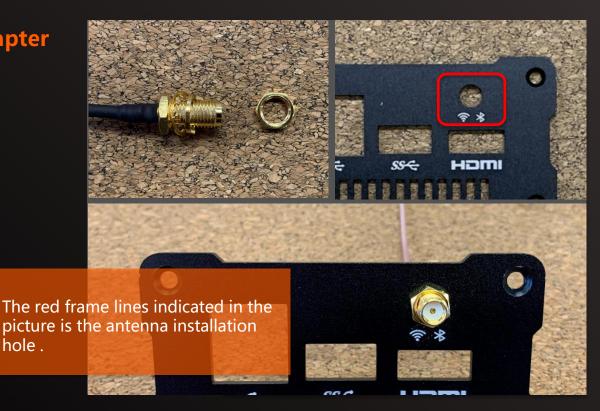
The parts used:

- The side panel x1
- IPEX to SMA adapter x1

Guide:

- 1. Unscrew the outermost nut at the adapter.
- 2. Plug the adapter into the antenna installation hole from the rear.
- 3. Lock the adapter from the front with the nut.

hole.





Install Wi-Fi & BT Antenna

The parts used:

- Previously assembled component x1
- SMA Wi-Fi & BT antenna x1

Guide:

1. Screw the antenna on the component.



^{*}Due to filming obscuration, the antenna part will be removed for now in the subsequent Assembly.



Assembly of bottom frames

The parts used:

- L Bracket with wing shaped plate x2
- Previously assembled component x1
- M3 cross screw x2

Note: Use the L Bracket as shown in the picture.





Mount the L Bracket at the bottom

The parts used:

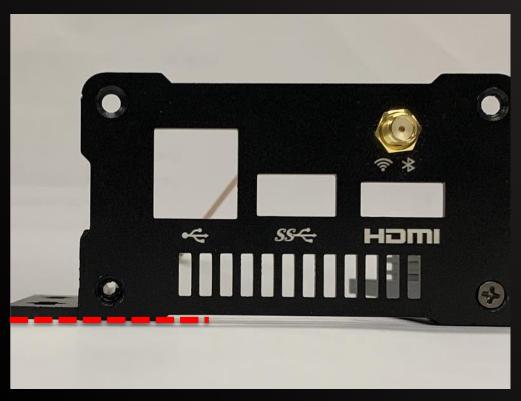
- L Bracket with wing shaped plate x2
- Previously assembled component x1
- M3 cross screw x2

- 1. Align the screw holes on the L Bracket and the bottom of the component.
- 2. Turn the screws tightly.

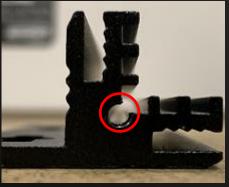




Tips: How to align the panel and the L Bracket



Place the L bracket flat on the table to quickly align the fixing screw holes of the side panel and L bracket.

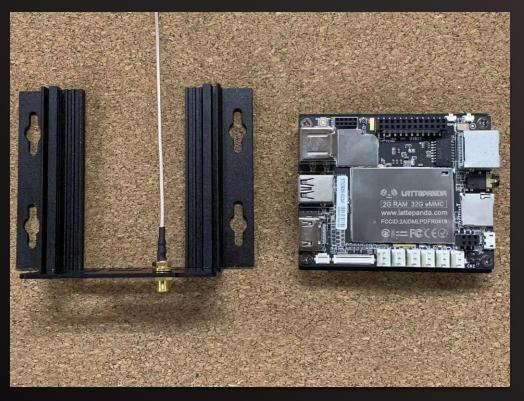




Assembly of the board

The parts used:

- LattePanda board with the heatsink x1
- Previously assembled component x1



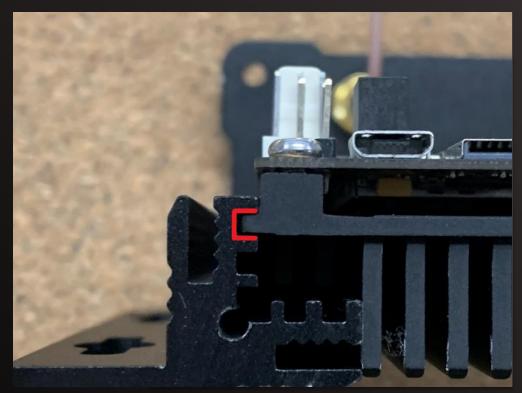


Mount the LattePanda board

The parts used:

- LattePanda board with the heatsink x1
- Previously assembled component x1

- 1. Position the HDMI port side of the board toward the panel on the bottom frames.
- 2. Insert the edge protrusion of heatsink into the top groove of L bracket.
- 3. Slide the whole part into the bottom frames.





Tips: Notice the insertion direction of the board



Please install the board according to the hole shape and silk screen printing label.



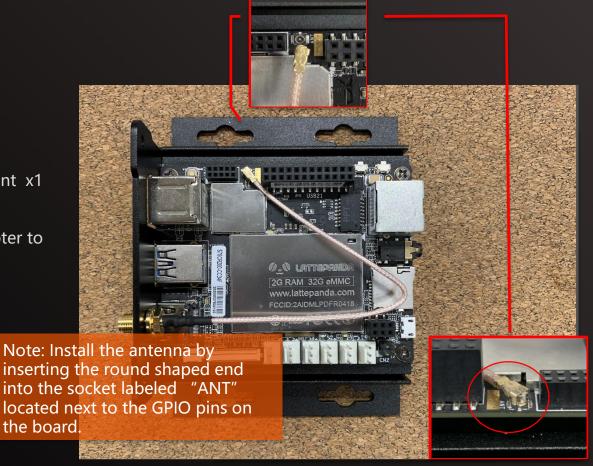


Connect the Antenna

The parts used:

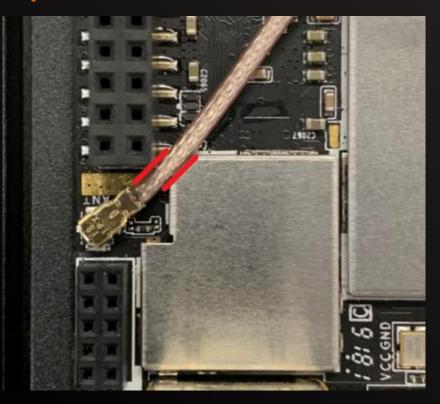
Previously assembled component x1

- 1. Connect the IPEX to SMA adapter to the board.
- 2. Arrange the antenna cable.





Tips: Place the antenna cable



- Antenna cable can bend and finalize the shape to a certain extent.
- The antenna cable can be clamped through the gap between the female header and the shield.





Assembly of the side panel

The parts used:

- Previously assembled component x1
- The side panel x2
- Switch button x2





Mount one side of the panel

The parts used:

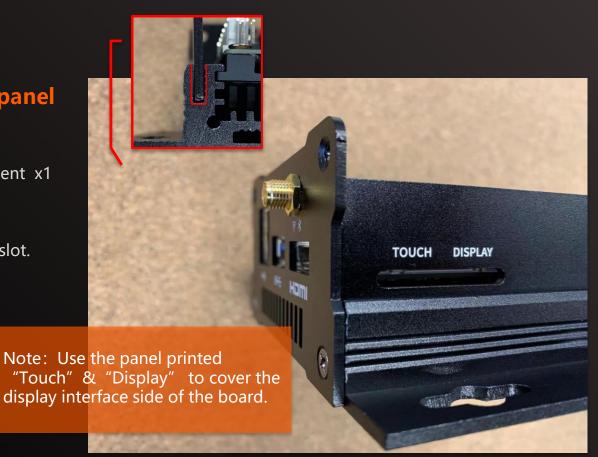
- Previously assembled component x1
- The side panel x1

Guide:

1. Insert the side panel into the slot.

Note:

If you need to install the **screen** and touch panel, please insert them under this step.
Please check the supplement –
[How to Extend a Touch Display].





Mount the other side panel

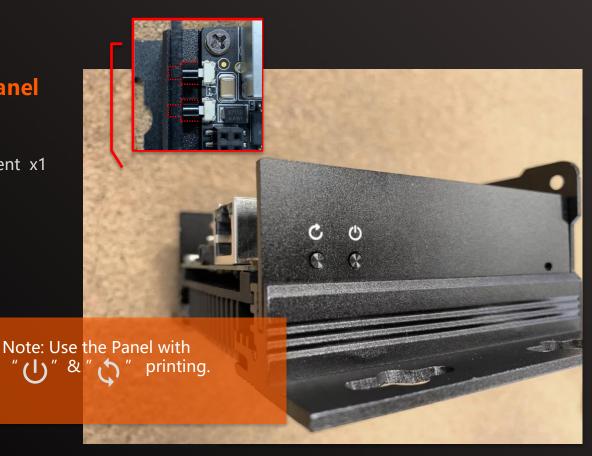
The parts used:

- Previously assembled component x1
- The side panel x1
- Switch button x2

Guide:

- 1. Put the two buttons in the position from the back of the panel.
- 2. Insert the side panel into the slot.

Note: The switch on the board is precision, please be careful of damage caused by force when in assembly.



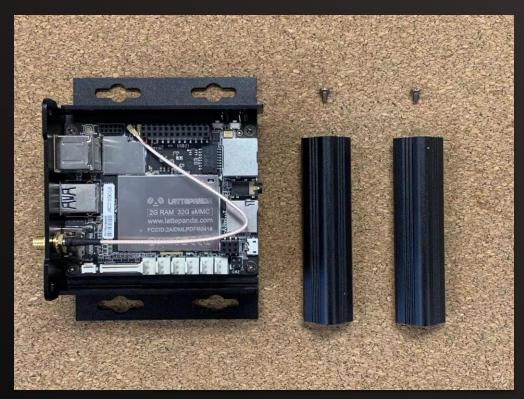


Assembly of top frames

The parts used:

- Previously assembled component x1
- L Bracket x2
- M3 cross screw x2

Note: Use the L Bracket as shown in the picture.





Mount the top frames

The parts used:

- Previously assembled component x1
- L Bracket x2
- M3 cross screw x2

- 1. Align the slot on the L Bracket and the side panel, then, insert.
- 2. Turn the screws tightly.





Assembly of the top panel

The parts used:

- Previously assembled component x1
- The top panel (with Logo) x1





Mount the top panel

The parts used:

- Previously assembled component x1
- The top panel (with Logo) x1

Guide:

1. Slide the panel into the top frames.





Assembly of the side panel

The parts used:

- Previously assembled component x1
- The side panel x1
- M3 cross screw x4





Install the last panel

The parts used:

- Previously assembled component x1
- The side panel x1
- M3 cross screw x4

- 1. Put on the side panel.
- 2. Turn four screws tightly.





Done!



03 Supplement



How to confirm the boot status of the LattePanda board



 You can observe whether the small light is on through the hollow position of the side panel to determine the boot status of the board.

03 Supplement



How to Extend a Touch Display



- Pass the FPC cable through the hollow of the side panel and fix it on the board interface.
- Then, insert the side panel into the slot.

Note: Please be careful of the FPC cable, do not pinch or damage during this period.

Thank You!

2021.05.18

