

JOY-IT RB-
HEATSINK5
ACTIVE COOLING
UNIT FOR
RASPBERRY PI 5



joy-it RB-Heatsink5 Active Cooling Unit for Raspberry PI 5 User Guide

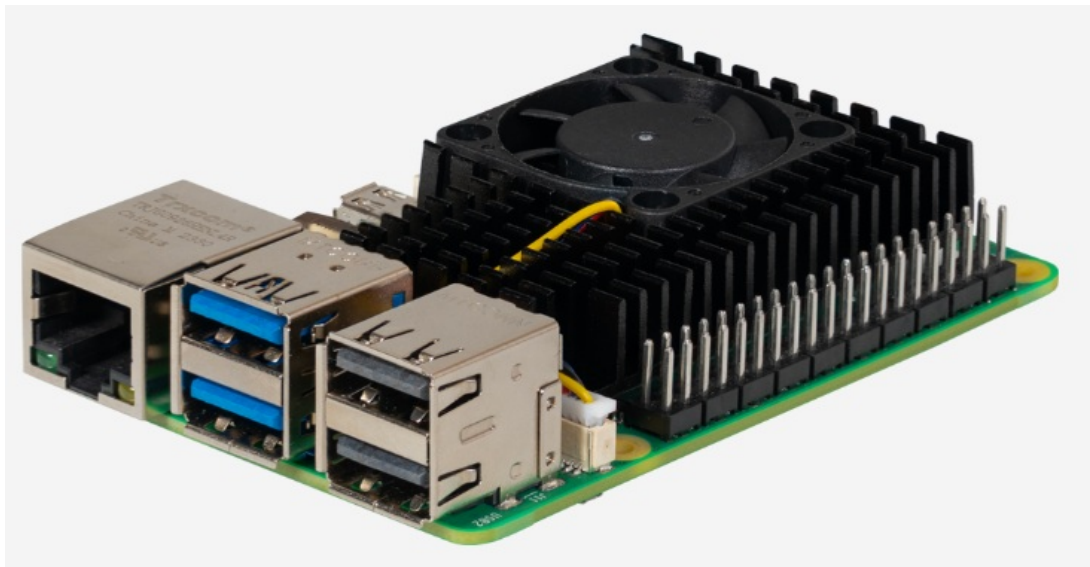
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joy-it

joy-it RB-Heatsink5 Active Cooling Unit for Raspberry PI 5



Product Information

Specifications

- Product Name: Active Cooling Unit for Raspberry Pi 5
- Model: RB-Heatsink5
- Manufacturer: Joy-IT powered by SIMAC Electronics GmbH
- Address: Pascalstr. 8, D-47506 Neukirchen-Vluyn
- Website: www.joy-it.net

Product Usage Instructions

Assembly

1. Insert the fan unit into the heat sink and secure it with the provided screws.
2. Remove the protective film from the thermal pads and place them on your Raspberry Pi.
3. Place the heat sink on your Raspberry Pi and secure it using the enclosed screws and washers.
4. Connect the fan cable to the fan connection on your Raspberry Pi.
5. The fan is now ready for use without additional installation or configuration.

Fan Control

The fan is typically controlled automatically based on the CPU temperature of your Raspberry Pi. However, you can manually control the fan using the following commands:

- Disable the fan: `pinctl FAN_PWM op dh`
- Run the fan at full speed: `pinctl FAN_PWM op dl`
- Automatic control of the fan: `pinctl FAN_PWM a0`

To adjust the parameters for automatic fan control, follow these steps:

1. Edit the configuration file by running: `sudo nano /boot/firmware/config.txt`

2. Add the following lines to the end of the file:

```
dtparam=fan_temp0=47000  
dtparam=fan_temp0_hyst=6000  
dtparam=fan_temp0_speed=165
```

1. Save the file with CTRL+O, close it with CTRL+X, and restart your Raspberry Pi by running: `sudo reboot`

Other Information

Information and take-back obligations under the German Electrical and Electronic Equipment Act (ElektroG):

- You must dispose of old electrical and electronic appliances at designated collection points.
- End users can return old appliances for disposal free of charge when purchasing a new appliance.
- Contact SIMAC Electronics GmbH at Pascalstr. 8, D-47506

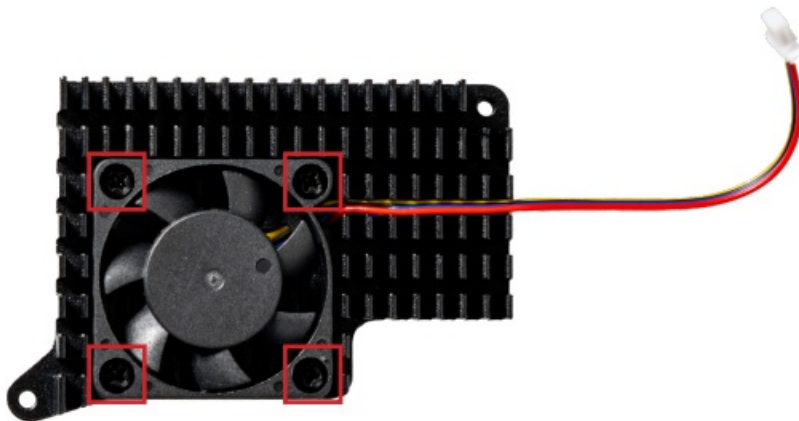
GENERAL INFORMATION

Dear customer

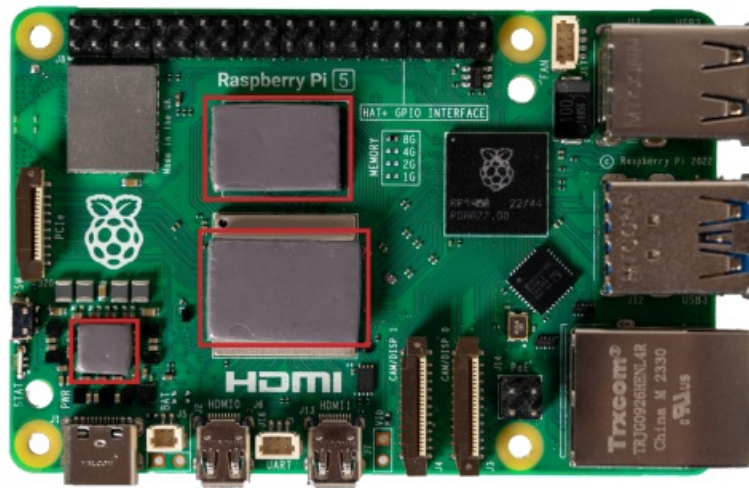
Thank you for choosing our product. In the following, we will show you what you need to bear in mind during commissioning and use. Should you encounter any unexpected problems during use, please do not hesitate to contact us.

ASSEMBLY

- First, insert the fan unit into the heat sink and mount it using the four screws provided.

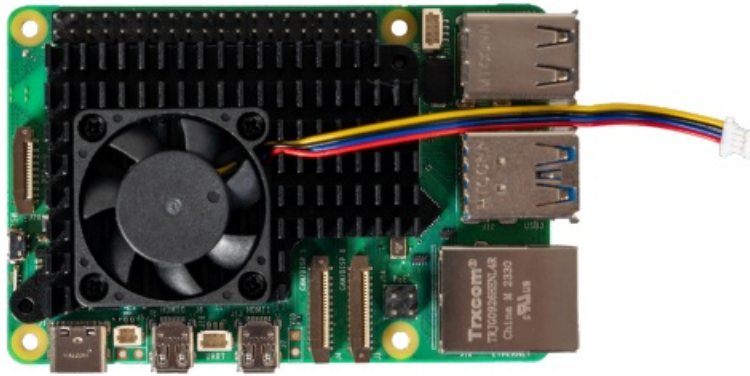


- Now completely remove the protective film from the thermal pads and place them on your Raspberry Pi.
- ATTENTION! There is a protective film on both the front and back of the heat-conducting pads. Both must be removed before fitting.

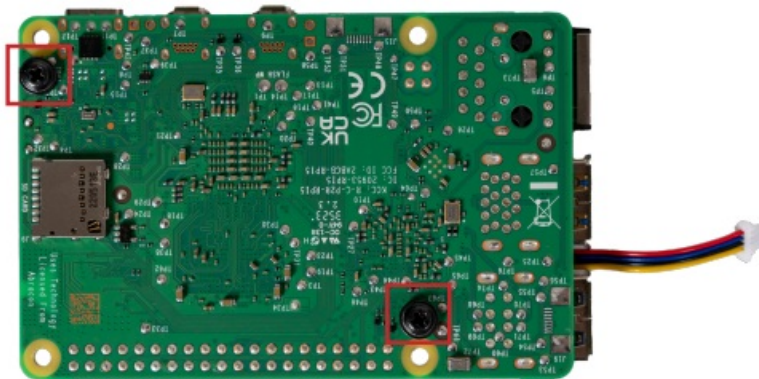


- Now place the heat sink on your Raspberry Pi.
- Now mount it from the underside of your Raspberry Pi using the two enclosed screws and washers.
- Now insert the fan cable into the fan connection of your Raspberry Pi.
- The fan is now ready for use. A separate installation and/or configuration is not required.

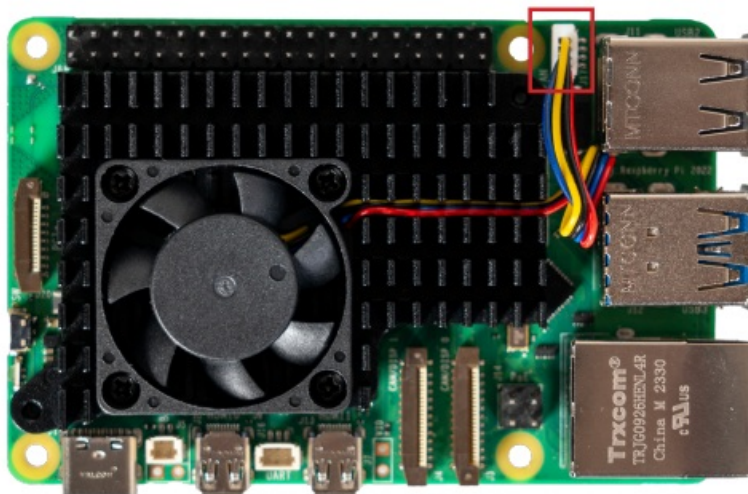
Now place the heat sink on your Raspberry Pi.



Now mount it from the underside of your Raspberry Pi using the two enclosed screws and washers.



Now insert the fan cable into the fan connection of your Raspberry Pi.



FAN CONTROL

Normally, the fan is automatically controlled by your Raspberry Pi depending on the CPU temperature. However, you can also use the following commands to control the fan:
Disable the fan:

- Disable the fan: `pinctrl FAN_PWM op dh`
- Run the fan at full speed: `pinctrl FAN_PWM op dl`
- Automatic control of the fan: `pinctrl FAN_PWM a0`

To adjust the parameters for automatic fan control, follow these steps:

1. Edit the configuration file by running: `sudo nano /boot/firmware/config.txt`
2. Add the following lines to the end of the file:

```
dtparam=fan_temp0=47000  
dtparam=fan_temp0_hyst=6000  
dtparam=fan_temp0_speed=165
```

1. Save the file with CTRL+O, close it with CTRL+X, and restart your Raspberry Pi by running: `sudo reboot`

You can adapt the individual parameters to your application.

The first line specifies the temperature threshold in milliCelsius.

The second line specifies the fan hysteresis in milliCelsius.

The third line specifies the fan speed (PWM setting) (0-255).

After you have adjusted the values, you can save the file with CTRL+O and Enter and close it with CTRL+X.

The settings are only applied after the next restart. To do this, enter the following command: `sudo reboot`

OTHER INFORMATION

Our information and take-back obligations under the German Electrical and Electronic Equipment Act (ElektroG)

SYMBOL ON ELECTRICAL AND ELECTRONIC EQUIPMENT

This crossed-out garbage can means that electrical and electronic appliances do not belong in household waste. You must hand in the old appliances at a collection point. Before handing them in, you must separate used batteries and accumulators that are not enclosed by the old appliance.

RETURN OPTIONS

As an end user, you can hand in your old appliance (which essentially fulfills the same function as the new appliance purchased from us) for disposal free of charge when purchasing a new appliance. Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities regardless of whether you have purchased a new appliance.

POSSIBILITY OF RETURN AT OUR COMPANY LOCATION DURING OPENING HOURS

SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn

RETURN OPTION IN YOUR AREA

We will send you a parcel stamp with which you can return the device to us free of charge. To do so, please contact us by e-mail at Service@joy-it.net or by telephone.

PACKAGING INFORMATION

Please pack your old appliance securely for transportation. If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

SUPPORT

Wir sind auch nach dem Kauf für Sie da. Sollten noch Fragen offen bleiben oder Probleme auftauchen stehen wir Ihnen auch per E-Mail, Telefon und Ticket-Supportsystem zur Seite.

E-Mail: service@joy-it.net

Ticket-System: <https://support.joy-it.net>

Phone: +49 (0)2845 9360 – 50 (Mon. – Thur.: 09:00 – 17:00 ó clock CET,
Fri.: 09:00- 14:30 ó clock CET)
For further information, please visit our website:
www.joy-it.net

Frequently Asked Questions


Q: Can I manually adjust the fan speed?

A: Yes, you can manually adjust the fan speed using specific commands as mentioned in the user manual.




Q: Is a separate installation or configuration required for the fan?

A: No, once assembled, the fan is ready for use without additional installation or configuration.

Documents / Resources

	<p>joy-it RB-Heatsink5 Active Cooling Unit for Raspberry PI 5 [pdf] User Guide RB-Heatsink5, RB-Heatsink5 Active Cooling Unit for Raspberry PI 5, RB-Heatsink5 Active Cooling Unit, Active Cooling Unit for Raspberry PI 5, Active Cooling Unit, Cooling Unit, Cooling Unit for Raspberry PI 5, Raspberry PI 5 Active Cooling Unit, Raspberry PI 5 Cooling Unit, Raspberry Cooling Unit, Cooling</p>
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References

-  [ITnet | Servizi di Colocation e Cloud](#)
-  [For Makers and Professionals | Joy-IT](#)
-  [Joy-IT Helpdesk](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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