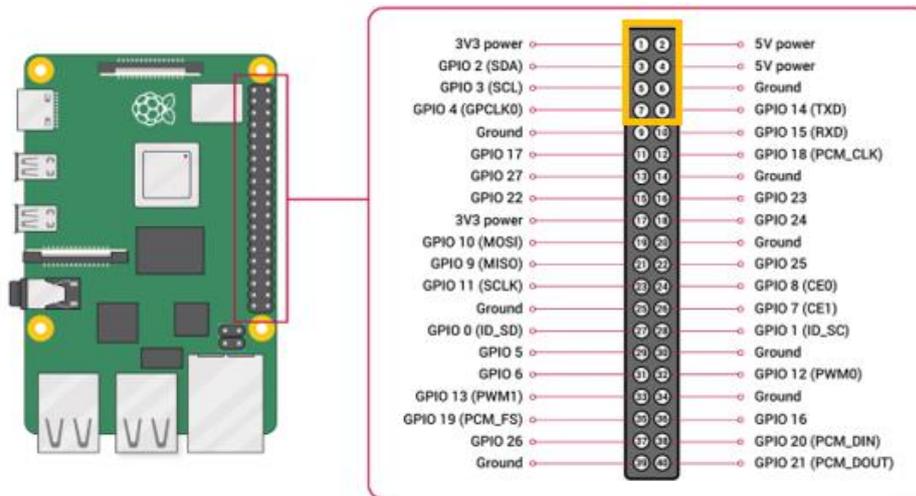


HATL01FP

Automatic fan control module for Raspberry Pi with 5V connector on top.

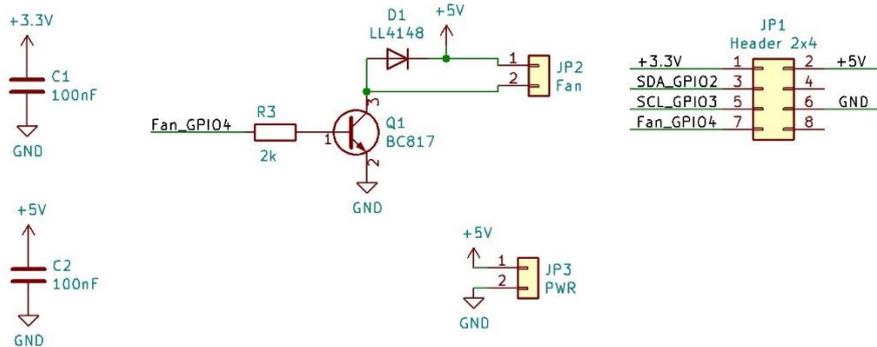
Do you want to extend the life of your fan, reduce its noise and control it automatically, while also protect your data with a crypto module? With this MaticControl crypto fan module you can! As a bonus, the second connector provides access to the 5V pins.

Place it on pins 1-8. And this is all you have to do on the hardware.

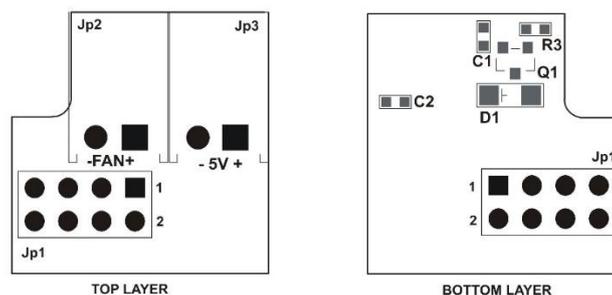


Note: This MaticControl module covers the pins for: I2C, GPIO15 (RXD) and GPIO14 (TXD). If you want to use them, we offer modules (HATs) that provide access to these pins via separate connector on the top of the board. **For more see LeapMatic.com**

Electrical Scheme of the module:



PCB

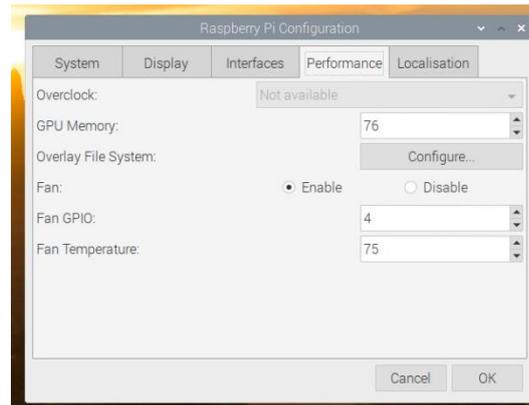


I. Fan Control

About the software settings you have two options:

1. Graphical

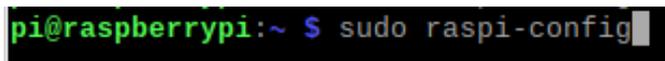
From Raspberry icon > Preferences> Raspberry Pi Configuration > Performance tab >set fan enable; Fan GPIO 4; and the temperature at which you want the fan to turn on. Save with OK



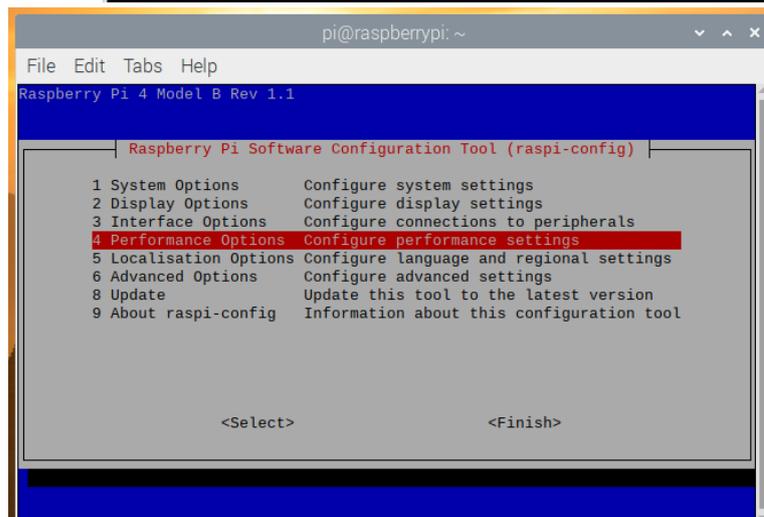
Thus, when the processor reaches the temperature you set, the fan will turn on. It will turn on off only when the processor temperature drops 10 degrees below the set on temperature. (For example, if you set the On temperature to 75 degrees, the fan will turn off when the processor reaches 65 degrees). With these few easy steps, you now have automatic fan control.

2. Console

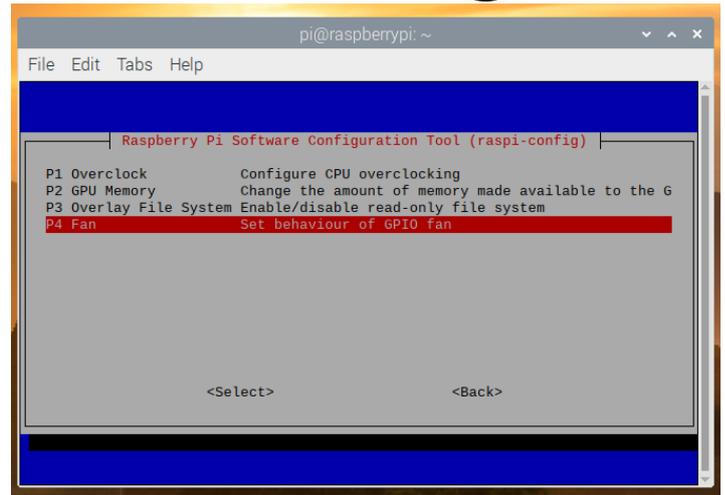
Open the Console and type
sudo raspi-config



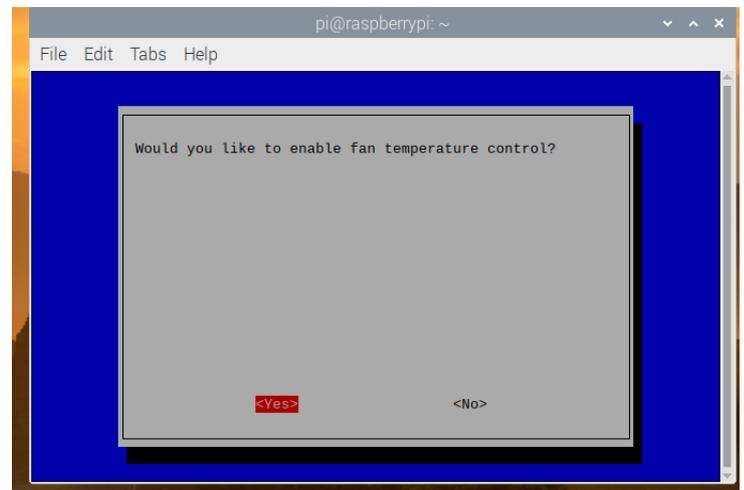
You will open a graphical interface menu where you need to choose Performance Options:



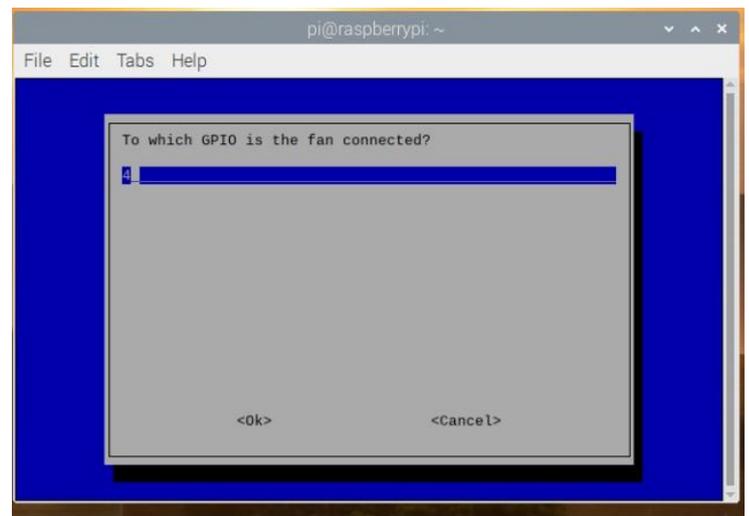
Then Choose “Fan”



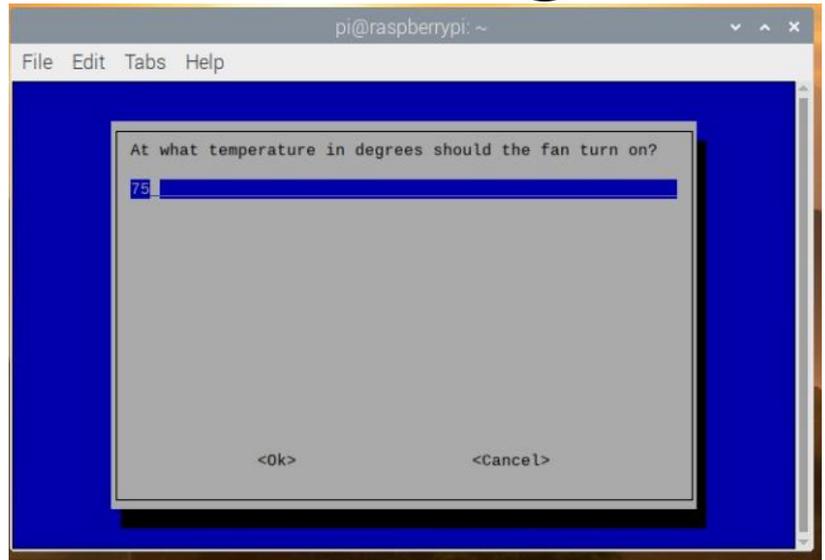
It will ask you if you want to enable fan temperature control? – Choose “Yes”



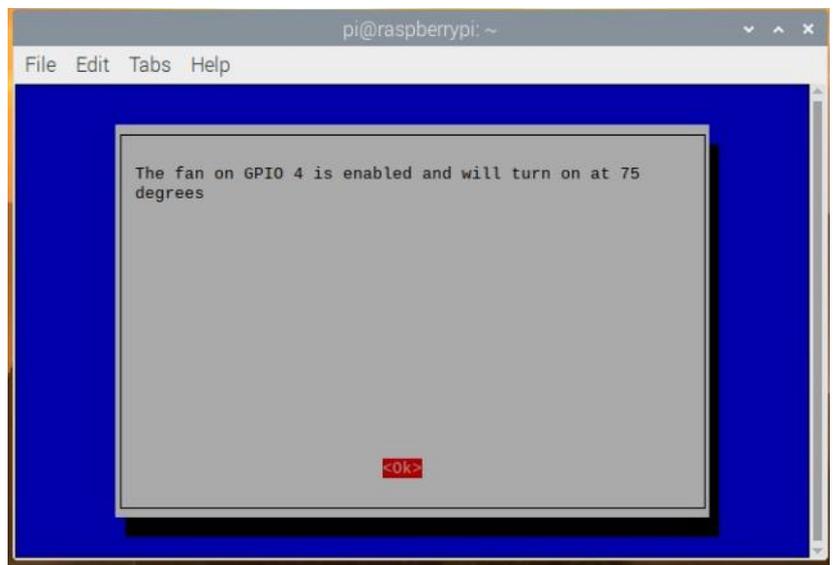
Here you need to set GPIO 4



Then set the temperature on which the fan will turn on



At last, the system will inform you about the changes.



II. 5V Connector

Use of 5V connector as output – You can connect hats or other devices which need to be supplied with 5V.

Use of 5V connector as input – You can power your raspberry via this connector from an external power supply. It can be very convenient when you have several Pi's and you can power them from one source. Power supply cables can run on either side of the MaticBox. This way you don't have to set aside space on the side for the power connector that is on the Raspberry Pi itself. This will allow you to mount many Pi's close to each other, with the power cables coming out from under the cover of MaticBox.