

# How to update eeprom firmware

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Here is a tutorial on how to update eeprom, OR you can also refer to official documentation: <https://www.raspberrypi.com/documentation/computers/raspberry-pi.html#automatic-updates>

## 1. Firstly check the bootloader version

```
vcgencmd bootloader_version
```

Maybe the result is following:

```
pi@geekworm:~$ vcgencmd bootloader_version
2025/03/10 17:10:37
version 2bb2ae640058a2f3aa8dcdbc2da33302e509668d (release)
timestamp 1741626637
update-time 1742283181
capabilities 0x0000007f
```

'2024/05/17' is the firmware version; <https://github.com/raspberrypi/rpi-eeeprom/blob/master/firmware-2712/release-notes.md>

## 2. Update to the latest version (recommended)

Before starting the update, make sure raspberry pi 5 is connected to the Internet;

You can refer to the official document: [update firmware \(https://www.raspberrypi.com/documentation/computers/raspberry-pi-5.html#updating-your-firmware\)](https://www.raspberrypi.com/documentation/computers/raspberry-pi-5.html#updating-your-firmware) or following steps:

- Update via command:

```
sudo apt update
sudo apt upgrade -y
sudo rpi-eeeprom-update
```

If a firmware update is available you will be prompted to install it and your Raspberry Pi will reboot. More information about updating the firmware on your Raspberry Pi is available in the [official documentation \(https://www.raspberrypi.com/documentation/computers/raspberry-pi-5.html#updating-your-firmware\)](https://www.raspberrypi.com/documentation/computers/raspberry-pi-5.html#updating-your-firmware).

- Use tool **raspi-config** to update

```
sudo raspi-config
```

Then select **6 Advanced Options** => **A5 Bootloader Version** => **E1 Latest**, answer **Yes** )

Then reboot and the firmware will be updated (requires Internet access).

## 3. Update to specified version (Not recommended)

At some point, you may need to update to a specified version (you almost never need to use it now). You can refer

to the following command. Visit [this link \(https://github.com/timg236/rpi-eeeprom/tree/master/firmware-2712/default\)](https://github.com/timg236/rpi-eeeprom/tree/master/firmware-2712/default) to view firmware version history.

```
wget https://github.com/timg236/rpi-eeeprom/raw/pieeprom-2023-10-30-2712/firmware-2712/default/pieeprom-2023-10-30.bin
sudo rpi-eeeprom-config --edit pieeprom-2023-10-30.bin
```

If your wget download file fails, please directly click [File:Pieeprom-2023-10-30.zip](#) download it then unzip it (run **unzip pieeprom-2023-10-30.zip**) to get pieeprom-2023-10-30.bin file.

PS: You can replace the 'pieeprom-2023-10-30.bin ' to you specified version file.

```
pi@raspberrypi:~ $ sudo rpi-eeeprom-config pieeprom-2023-10-30.bin
[all]
BOOT_UART=1
POWER_OFF_ON_HALT=0
BOOT_ORDER=0xf41
pi@raspberrypi:~ $ sudo rpi-eeeprom-config --edit pieeprom-2023-10-30.bin
Updating bootloader EEPROM
  image: pieeprom-2023-10-30.bin
config_src: /boot/firmware/pieeprom.upd
config: /tmp/tmp643d8c6d/boot.conf
#####
[all]
BOOT_UART=1
POWER_OFF_ON_HALT=0
BOOT_ORDER=0xf416
#####

*** To cancel this update run 'sudo rpi-eeeprom-update -r' ***

*** INSTALLING /tmp/tmp643d8c6d/pieeprom.upd ***

CURRENT: Thu Sep 28 10:24:57 AM UTC 2023 (1695896697)
UPDATE: Mon Oct 30 04:45:10 PM UTC 2023 (1698684310)
BOOTFS: /boot/firmware

EEPROM updates pending. Please reboot to apply the update.
To cancel a pending update run "sudo rpi-eeeprom-update -r".
pi@raspberrypi:~ $ sudo reboot
```

#### 4. Check if the update was successful

After restarting, run the **vcgencmd bootloader\_version** command again to view the firmware version and check whether the update is successful.

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