

Get started with MicroPython [S2 series]

Flash MicroPython firmware

The boards were already flashed micropython firmware. If they lost firmware or you need latest firmware, you can flash MicroPython firmware by yourself.

Requirements

- [Python](#)
- [esptool](#) (for flash esp32-s2 firmware.)

```
pip install esptool
```

S2 Firmware

- [Firmware](#)

Flash firmware

- Make S2 boards into **Device Firmware Upgrade (DFU)** mode.
 - Hold on **Button 0**
 - Press **Button Reset**
 - Release **Button 0** When you hear the prompt tone on usb reconnection

- Flash using esptool.py

- `esptool.py --port PORT_NAME erase_flash`
- `esptool.py --port PORT_NAME --baud 1000000 write_flash -z 0x1000 FIRMWARE.bin`

Note

Don't forget to change **PORT_NAME** and **FIRMWARE.bin**.

In Linux, **PORT_NAME** is like `/dev/ttyUSB0`. In windows, **PORT_NAME** is like `COM4`.

Quick reference

- [Quick reference for the ESP32](#)

Get started with Arduino [S2 series]

Requirements

- [Python](#)
- [Arduino IDE](#)

Installing Hardware package

- [esp32 arduino package](#)

Configure Board

- Use latest [esp32 arduino package](#)
- Choose board **LOLIN S2 MINI** or **LOLIN S2 PICO**

Upload Code

- Make S2 boards into **Device Firmware Upgrade (DFU)** mode.
 - Hold on **Button 0**
 - Press **Button Reset**
 - Release **Button 0** When you hear the prompt tone on usb reconnection

Documentation

- [ESP32-S2 and ESP32-C3 Support](#)

Get started with CircuitPython [S2 series]

Flash CircuitPython firmware

Requirements

- [Python](#)

- [esptool](#) (for flash esp32-s2 firmware.)

```
pip install esptool
```

S2 Firmware

- [Firmware](#)

Flash firmware

- Make S2 boards into **Device Firmware Upgrade (DFU)** mode.
 - Press and hold the **[0]** Button
 - Press and release the **[Reset]** Button
 - Release the **[0]** Button
- Flash using esptool.py
- ```
esptool.py --chip esp32s2 --port PORT_NAME --baud 1000000 write_flash -z 0x0 FIRMWARE.bin
```

### Note

Don't forget to change **PORT\_NAME** and **FIRMWARE.bin**.

In Linux, **PORT\_NAME** is like `/dev/ttyUSB0`. In windows, **PORT\_NAME** is like `COM4`.

## Quick reference

- [Welcome To CircuitPython](#)