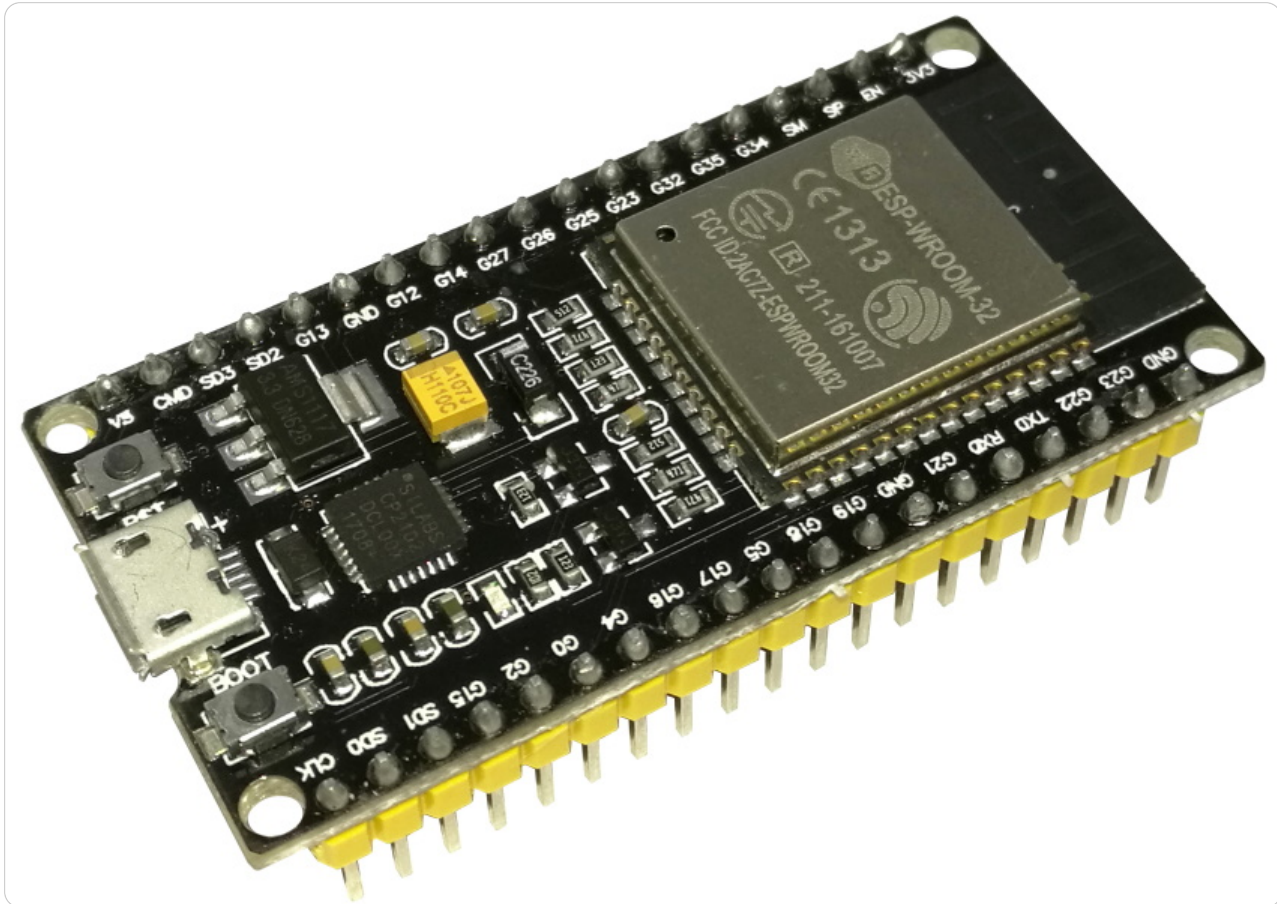


## ESP32 / WROOM



**Vendor:** Espressif

**Features:** BLE, External Flash, WiFi

**Source on GitHub:** [esp32/ESP32\\_GENERIC](https://github.com/micropython/micropython/tree/master/ports/esp32/boards/ESP32_GENERIC) ([https://github.com/micropython/micropython/tree/master/ports/esp32/boards/ESP32\\_GENERIC](https://github.com/micropython/micropython/tree/master/ports/esp32/boards/ESP32_GENERIC))

**More info:** Website (<https://www.espressif.com/en/products/modules>)

The following files are firmware that should work on most ESP32-based boards with 4MiB or more of flash, including WROOM WROVER, SOLO, PICO, and MINI modules.

This board has multiple variants available:

- If your board is based on a WROVER module, or otherwise has SPIRAM (also known as PSRAM) then it's recommended to use the "spiram" variant. Look for heading **Support for SPIRAM / WROVER**.
- If your board has a ESP32-D2WD chip (with only 2MiB flash) then use the "d2wd" variant. Look for heading **ESP32 D2WD**.
- If your board has a single-core ESP32 (e.g. the "SOLO" modules) then choose the "unicore" variant. Look for heading **ESP32 Unicore**.
- If you'd like to perform Over-the-Air updates of the MicroPython firmware, then choose the "ota" variant. This variant has less room in the flash for Python files as a result of supporting OTA. Look for heading **Support for OTA**.

Otherwise, download the generic variant (under the first heading below).

## Installation instructions

Program your board using the `esptool.py` program, found here (<https://docs.espressif.com/projects/esptool/en/latest/esp32/>).

**Windows users:** You may find the installed program is called `esptool` instead of `esptool.py`.

### Erasing

If you are putting MicroPython on your board for the first time then you should first erase the entire flash using:

```
esptool.py erase_flash
```

`esptool.py` will try to detect the serial port with the ESP32 automatically, but if this fails or there might be more than one Espressif-based device attached to your computer then pass the `--port` option with the name of the target serial port. For example:

```
esptool.py --port PORTNAME erase_flash
```

- On Linux, the port name is usually similar to `/dev/ttyUSB` or `/dev/ttyACM0`.
- On Mac, the port name is usually similar to `/dev/cu.usbmodem01`.
- On Windows, the port name is usually similar to `COM4`.

### Flashing

Then deploy the firmware to the board, starting at address `0x1000`:

```
esptool.py --baud 460800 write_flash 0x1000 ESP32_BOARD_NAME-DATE-VERSION.bin
```

Replace `ESP32_BOARD_NAME-DATE-VERSION.bin` with the `.bin` file downloaded from this page.

As above, if `esptool.py` can't automatically detect the serial port then you can pass it explicitly on the command line instead. For example:

```
esptool.py --port PORTNAME --baud 460800 write_flash 0x1000 ESP32_BOARD_NAME-DATE-VERSION.bin
```

### Troubleshooting

If flashing starts and then fails partway through, try removing the `--baud 460800` option to flash at the slower default speed.

If these steps don't work, consult the MicroPython ESP32 Troubleshooting steps (<https://docs.micropython.org/en/latest/esp32/tutorial/intro.html#troubleshooting-installation-problems>) and the `esptool` documentation (<https://docs.espressif.com/projects/esptool/en/latest/esp32/esptool/basic-options.html>).

**Important:** From the options below, download the `.bin` file for your board.

# Firmware

## Releases

**v1.26.0 (2025-08-09) .bin (/resources/firmware/ESP32\_GENERIC-20250809-v1.26.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20250809-v1.26.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20250809-v1.26.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20250809-v1.26.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.26.0>) (latest)**  
v1.25.0 (2025-04-15) .bin (/resources/firmware/ESP32\_GENERIC-20250415-v1.25.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20250415-v1.25.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20250415-v1.25.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20250415-v1.25.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.25.0>)  
v1.24.1 (2024-11-29) .bin (/resources/firmware/ESP32\_GENERIC-20241129-v1.24.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20241129-v1.24.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20241129-v1.24.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20241129-v1.24.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.1>)  
v1.24.0 (2024-10-25) .bin (/resources/firmware/ESP32\_GENERIC-20241025-v1.24.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20241025-v1.24.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20241025-v1.24.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20241025-v1.24.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.0>)  
v1.23.0 (2024-06-02) .bin (/resources/firmware/ESP32\_GENERIC-20240602-v1.23.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20240602-v1.23.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20240602-v1.23.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20240602-v1.23.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.23.0>)  
v1.22.2 (2024-02-22) .bin (/resources/firmware/ESP32\_GENERIC-20240222-v1.22.2.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20240222-v1.22.2.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20240222-v1.22.2.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20240222-v1.22.2.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.2>)  
v1.22.1 (2024-01-05) .bin (/resources/firmware/ESP32\_GENERIC-20240105-v1.22.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20240105-v1.22.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20240105-v1.22.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20240105-v1.22.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.1>)  
v1.22.0 (2023-12-27) .bin (/resources/firmware/ESP32\_GENERIC-20231227-v1.22.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20231227-v1.22.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20231227-v1.22.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20231227-v1.22.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.0>)  
v1.21.0 (2023-10-05) .bin (/resources/firmware/ESP32\_GENERIC-20231005-v1.21.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20231005-v1.21.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20231005-v1.21.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20231005-v1.21.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.21.0>)  
v1.20.0 (2023-04-26) .bin (/resources/firmware/ESP32\_GENERIC-20230426-v1.20.0.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20230426-v1.20.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20230426-v1.20.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.20.0>)  
v1.19.1 (2022-06-18) .bin (/resources/firmware/ESP32\_GENERIC-20220618-v1.19.1.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20220618-v1.19.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20220618-v1.19.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.19.1>)  
v1.18 (2022-01-17) .bin (/resources/firmware/ESP32\_GENERIC-20220117-v1.18.bin) / [.elf]

(/resources/firmware/ESP32\_GENERIC-20220117-v1.18.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20220117-v1.18.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.18>)  
v1.17 (2021-09-02) .bin (/resources/firmware/ESP32\_GENERIC-20210902-v1.17.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20210902-v1.17.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20210902-v1.17.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.17>)  
v1.16 (2021-06-23) .bin (/resources/firmware/ESP32\_GENERIC-20210623-v1.16.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20210623-v1.16.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20210623-v1.16.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.16>)  
v1.15 (2021-04-18) .bin (/resources/firmware/ESP32\_GENERIC-20210418-v1.15.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20210418-v1.15.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20210418-v1.15.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.15>)  
v1.14 (2021-02-02) .bin (/resources/firmware/ESP32\_GENERIC-20210202-v1.14.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20210202-v1.14.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20210202-v1.14.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.14>)  
v1.13 (2020-09-02) .bin (/resources/firmware/ESP32\_GENERIC-20200902-v1.13.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20200902-v1.13.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20200902-v1.13.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.13>)  
v1.12 (2019-12-20) .bin (/resources/firmware/ESP32\_GENERIC-20191220-v1.12.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20191220-v1.12.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20191220-v1.12.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.12>)

## Preview builds

v1.27.0-preview.88.g704c70c5b (2025-08-29) .bin (/resources/firmware/ESP32\_GENERIC-20250829-v1.27.0-preview.88.g704c70c5b.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20250829-v1.27.0-preview.88.g704c70c5b.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20250829-v1.27.0-preview.88.g704c70c5b.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20250829-v1.27.0-preview.88.g704c70c5b.map)  
v1.27.0-preview.72.gc33a02fe6 (2025-08-26) .bin (/resources/firmware/ESP32\_GENERIC-20250826-v1.27.0-preview.72.gc33a02fe6.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20250826-v1.27.0-preview.72.gc33a02fe6.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20250826-v1.27.0-preview.72.gc33a02fe6.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20250826-v1.27.0-preview.72.gc33a02fe6.map)  
v1.27.0-preview.63.g053aade74 (2025-08-25) .bin (/resources/firmware/ESP32\_GENERIC-20250825-v1.27.0-preview.63.g053aade74.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20250825-v1.27.0-preview.63.g053aade74.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20250825-v1.27.0-preview.63.g053aade74.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20250825-v1.27.0-preview.63.g053aade74.map)  
v1.27.0-preview.59.gb5fcb33ea (2025-08-19) .bin (/resources/firmware/ESP32\_GENERIC-20250819-v1.27.0-preview.59.gb5fcb33ea.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-20250819-v1.27.0-preview.59.gb5fcb33ea.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-20250819-v1.27.0-preview.59.gb5fcb33ea.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-20250819-v1.27.0-preview.59.gb5fcb33ea.map)  
(These are automatic builds of the development branch for the next release)

## Firmware (Support for OTA)

## Releases

**v1.26.0 (2025-08-09) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20250809-v1.26.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20250809-v1.26.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20250809-v1.26.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20250809-v1.26.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.26.0>)** (latest)

v1.25.0 (2025-04-15) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20250415-v1.25.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20250415-v1.25.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20250415-v1.25.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20250415-v1.25.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.25.0>)

v1.24.1 (2024-11-29) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20241129-v1.24.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20241129-v1.24.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20241129-v1.24.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20241129-v1.24.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.1>)

v1.24.0 (2024-10-25) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20241025-v1.24.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20241025-v1.24.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20241025-v1.24.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20241025-v1.24.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.0>)

v1.23.0 (2024-06-02) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20240602-v1.23.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20240602-v1.23.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20240602-v1.23.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20240602-v1.23.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.23.0>)

v1.22.2 (2024-02-22) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20240222-v1.22.2.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20240222-v1.22.2.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20240222-v1.22.2.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20240222-v1.22.2.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.2>)

v1.22.1 (2024-01-05) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20240105-v1.22.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20240105-v1.22.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20240105-v1.22.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20240105-v1.22.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.1>)

v1.22.0 (2023-12-27) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20231227-v1.22.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20231227-v1.22.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20231227-v1.22.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20231227-v1.22.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.0>)

v1.21.0 (2023-10-05) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20231005-v1.21.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20231005-v1.21.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20231005-v1.21.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20231005-v1.21.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.21.0>)

v1.20.0 (2023-04-26) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20230426-v1.20.0.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20230426-v1.20.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20230426-v1.20.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.20.0>)

v1.19.1 (2022-06-18) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20220618-v1.19.1.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20220618-v1.19.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20220618-v1.19.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.19.1>)

v1.18 (2022-01-17) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20220117-v1.18.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20220117-v1.18.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20220117-v1.18.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.18>)

## Preview builds

v1.27.0-preview.88.g704c70c5b (2025-08-29) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20250829-v1.27.0-preview.88.g704c70c5b.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20250829-v1.27.0-preview.88.g704c70c5b.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20250829-v1.27.0-preview.88.g704c70c5b.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20250829-v1.27.0-preview.88.g704c70c5b.map)

v1.27.0-preview.72.gc33a02fe6 (2025-08-26) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20250826-v1.27.0-preview.72.gc33a02fe6.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20250826-v1.27.0-preview.72.gc33a02fe6.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20250826-v1.27.0-preview.72.gc33a02fe6.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20250826-v1.27.0-preview.72.gc33a02fe6.map)

v1.27.0-preview.63.g053aade74 (2025-08-25) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20250825-v1.27.0-preview.63.g053aade74.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20250825-v1.27.0-preview.63.g053aade74.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20250825-v1.27.0-preview.63.g053aade74.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20250825-v1.27.0-preview.63.g053aade74.map)

v1.27.0-preview.59.gb5fcb33ea (2025-08-19) .bin (/resources/firmware/ESP32\_GENERIC-OTA-20250819-v1.27.0-preview.59.gb5fcb33ea.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-OTA-20250819-v1.27.0-preview.59.gb5fcb33ea.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-OTA-20250819-v1.27.0-preview.59.gb5fcb33ea.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-OTA-20250819-v1.27.0-preview.59.gb5fcb33ea.map)

(These are automatic builds of the development branch for the next release)

## Firmware (ESP32 Unicore)

### Releases

**v1.26.0 (2025-08-09) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20250809-v1.26.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250809-v1.26.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250809-v1.26.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250809-v1.26.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.26.0>) (latest)**

v1.25.0 (2025-04-15) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20250415-v1.25.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250415-v1.25.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250415-v1.25.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250415-v1.25.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.25.0>)

v1.24.1 (2024-11-29) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20241129-v1.24.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20241129-v1.24.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20241129-v1.24.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20241129-v1.24.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.1>)

v1.24.0 (2024-10-25) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20241025-v1.24.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20241025-v1.24.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20241025-v1.24.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20241025-v1.24.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.0>)

v1.23.0 (2024-06-02) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20240602-

v1.23.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240602-v1.23.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240602-v1.23.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240602-v1.23.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.23.0>)

v1.22.2 (2024-02-22) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20240222-v1.22.2.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240222-v1.22.2.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240222-v1.22.2.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240222-v1.22.2.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.2>)

v1.22.1 (2024-01-05) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20240105-v1.22.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240105-v1.22.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240105-v1.22.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20240105-v1.22.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.1>)

v1.22.0 (2023-12-27) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20231227-v1.22.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20231227-v1.22.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20231227-v1.22.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20231227-v1.22.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.0>)

v1.21.0 (2023-10-05) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20231005-v1.21.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20231005-v1.21.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20231005-v1.21.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20231005-v1.21.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.21.0>)

v1.20.0 (2023-04-26) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20230426-v1.20.0.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20230426-v1.20.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20230426-v1.20.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.20.0>)

## Preview builds

v1.27.0-preview.88.g704c70c5b (2025-08-29) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20250829-v1.27.0-preview.88.g704c70c5b.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250829-v1.27.0-preview.88.g704c70c5b.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250829-v1.27.0-preview.88.g704c70c5b.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250829-v1.27.0-preview.88.g704c70c5b.map)

v1.27.0-preview.72.gc33a02fe6 (2025-08-26) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20250826-v1.27.0-preview.72.gc33a02fe6.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250826-v1.27.0-preview.72.gc33a02fe6.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250826-v1.27.0-preview.72.gc33a02fe6.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250826-v1.27.0-preview.72.gc33a02fe6.map)

v1.27.0-preview.63.g053aade74 (2025-08-25) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20250825-v1.27.0-preview.63.g053aade74.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250825-v1.27.0-preview.63.g053aade74.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250825-v1.27.0-preview.63.g053aade74.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250825-v1.27.0-preview.63.g053aade74.map)

v1.27.0-preview.59.gb5fcb33ea (2025-08-19) .bin (/resources/firmware/ESP32\_GENERIC-UNICORE-20250819-v1.27.0-preview.59.gb5fcb33ea.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250819-v1.27.0-preview.59.gb5fcb33ea.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250819-v1.27.0-



preview.59.gb5fcb33ea.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-UNICORE-20250819-v1.27.0-preview.59.gb5fcb33ea.map)  
(These are automatic builds of the development branch for the next release)

## Firmware (ESP32 D2WD)

### Releases

**v1.26.0 (2025-08-09) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20250809-v1.26.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20250809-v1.26.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20250809-v1.26.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20250809-v1.26.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.26.0>) (latest)**  
v1.25.0 (2025-04-15) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20250415-v1.25.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20250415-v1.25.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20250415-v1.25.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20250415-v1.25.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.25.0>)  
v1.24.1 (2024-11-29) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20241129-v1.24.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20241129-v1.24.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20241129-v1.24.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20241129-v1.24.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.1>)  
v1.24.0 (2024-10-25) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20241025-v1.24.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20241025-v1.24.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20241025-v1.24.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20241025-v1.24.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.0>)  
v1.23.0 (2024-06-02) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20240602-v1.23.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20240602-v1.23.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20240602-v1.23.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20240602-v1.23.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.23.0>)  
v1.22.2 (2024-02-22) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20240222-v1.22.2.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20240222-v1.22.2.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20240222-v1.22.2.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20240222-v1.22.2.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.2>)  
v1.22.1 (2024-01-05) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20240105-v1.22.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20240105-v1.22.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20240105-v1.22.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20240105-v1.22.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.1>)  
v1.22.0 (2023-12-27) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20231227-v1.22.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20231227-v1.22.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20231227-v1.22.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20231227-v1.22.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.0>)  
v1.21.0 (2023-10-05) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20231005-v1.21.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20231005-v1.21.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20231005-v1.21.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20231005-v1.21.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.21.0>)  
v1.20.0 (2023-04-26) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20230426-v1.20.0.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20230426-v1.20.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20230426-v1.20.0.map) / [Release



notes] (<https://github.com/micropython/micropython/releases/tag/v1.20.0>)  
 v1.19.1 (2022-06-18) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20220618-  
 v1.19.1.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20220618-v1.19.1.elf) /  
 [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20220618-v1.19.1.map) / [Release  
 notes] (<https://github.com/micropython/micropython/releases/tag/v1.19.1>)  
 v1.18 (2022-01-17) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20220117-v1.18.bin)  
 / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20220117-v1.18.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20220117-v1.18.map) / [Release notes]  
 (<https://github.com/micropython/micropython/releases/tag/v1.18>)

## Preview builds

v1.27.0-preview.88.g704c70c5b (2025-08-29) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20250829-v1.27.0-preview.88.g704c70c5b.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20250829-v1.27.0-preview.88.g704c70c5b.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20250829-v1.27.0-preview.88.g704c70c5b.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20250829-v1.27.0-preview.88.g704c70c5b.map)  
 v1.27.0-preview.72.gc33a02fe6 (2025-08-26) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20250826-v1.27.0-preview.72.gc33a02fe6.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20250826-v1.27.0-preview.72.gc33a02fe6.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20250826-v1.27.0-preview.72.gc33a02fe6.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20250826-v1.27.0-preview.72.gc33a02fe6.map)  
 v1.27.0-preview.63.g053aade74 (2025-08-25) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20250825-v1.27.0-preview.63.g053aade74.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20250825-v1.27.0-preview.63.g053aade74.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20250825-v1.27.0-preview.63.g053aade74.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20250825-v1.27.0-preview.63.g053aade74.map)  
 v1.27.0-preview.59.gb5fcb33ea (2025-08-19) .bin (/resources/firmware/ESP32\_GENERIC-D2WD-20250819-v1.27.0-preview.59.gb5fcb33ea.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-D2WD-20250819-v1.27.0-preview.59.gb5fcb33ea.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-D2WD-20250819-v1.27.0-preview.59.gb5fcb33ea.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-D2WD-20250819-v1.27.0-preview.59.gb5fcb33ea.map)  
 (These are automatic builds of the development branch for the next release)

## Firmware (Support for SPIRAM / WROVER)

### Releases

**v1.26.0 (2025-08-09) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250809-v1.26.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250809-v1.26.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250809-v1.26.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250809-v1.26.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.26.0>)** (latest)  
 v1.25.0 (2025-04-15) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250415-v1.25.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250415-v1.25.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250415-v1.25.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250415-v1.25.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.25.0>)  
 v1.24.1 (2024-11-29) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241129-v1.24.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241129-v1.24.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241129-

v1.24.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241129-v1.24.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.1>)

v1.24.0 (2024-10-25) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241025-v1.24.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241025-v1.24.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241025-v1.24.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20241025-v1.24.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.24.0>)

v1.23.0 (2024-06-02) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240602-v1.23.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240602-v1.23.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240602-v1.23.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240602-v1.23.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.23.0>)

v1.22.2 (2024-02-22) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240222-v1.22.2.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240222-v1.22.2.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240222-v1.22.2.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240222-v1.22.2.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.2>)

v1.22.1 (2024-01-05) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240105-v1.22.1.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240105-v1.22.1.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240105-v1.22.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20240105-v1.22.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.1>)

v1.22.0 (2023-12-27) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231227-v1.22.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231227-v1.22.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231227-v1.22.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231227-v1.22.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.22.0>)

v1.21.0 (2023-10-05) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231005-v1.21.0.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231005-v1.21.0.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231005-v1.21.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20231005-v1.21.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.21.0>)

v1.20.0 (2023-04-26) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20230426-v1.20.0.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20230426-v1.20.0.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20230426-v1.20.0.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.20.0>)

v1.19.1 (2022-06-18) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20220618-v1.19.1.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20220618-v1.19.1.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20220618-v1.19.1.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.19.1>)

v1.18 (2022-01-17) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20220117-v1.18.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20220117-v1.18.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20220117-v1.18.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.18>)

v1.17 (2021-09-02) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210902-v1.17.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210902-v1.17.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210902-v1.17.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.17>)

v1.16 (2021-06-23) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210623-v1.16.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210623-v1.16.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210623-v1.16.map) / [Release

notes] (<https://github.com/micropython/micropython/releases/tag/v1.16>)  
v1.15 (2021-04-18) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210418-v1.15.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210418-v1.15.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210418-v1.15.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.15>)  
v1.14 (2021-02-02) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210202-v1.14.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210202-v1.14.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20210202-v1.14.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.14>)  
v1.13 (2020-09-02) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20200902-v1.13.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20200902-v1.13.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20200902-v1.13.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.13>)  
v1.12 (2019-12-20) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20191220-v1.12.bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20191220-v1.12.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20191220-v1.12.map) / [Release notes] (<https://github.com/micropython/micropython/releases/tag/v1.12>)

## Preview builds

v1.27.0-preview.88.g704c70c5b (2025-08-29) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250829-v1.27.0-preview.88.g704c70c5b.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250829-v1.27.0-preview.88.g704c70c5b.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250829-v1.27.0-preview.88.g704c70c5b.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250829-v1.27.0-preview.88.g704c70c5b.map)  
v1.27.0-preview.72.gc33a02fe6 (2025-08-26) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250826-v1.27.0-preview.72.gc33a02fe6.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250826-v1.27.0-preview.72.gc33a02fe6.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250826-v1.27.0-preview.72.gc33a02fe6.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250826-v1.27.0-preview.72.gc33a02fe6.map)  
v1.27.0-preview.63.g053aade74 (2025-08-25) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250825-v1.27.0-preview.63.g053aade74.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250825-v1.27.0-preview.63.g053aade74.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250825-v1.27.0-preview.63.g053aade74.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250825-v1.27.0-preview.63.g053aade74.map)  
v1.27.0-preview.59.gb5fcb33ea (2025-08-19) .bin (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250819-v1.27.0-preview.59.gb5fcb33ea.bin) / [.app-bin] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250819-v1.27.0-preview.59.gb5fcb33ea.app-bin) / [.elf] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250819-v1.27.0-preview.59.gb5fcb33ea.elf) / [.map] (/resources/firmware/ESP32\_GENERIC-SPIRAM-20250819-v1.27.0-preview.59.gb5fcb33ea.map)  
(These are automatic builds of the development branch for the next release)

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A project by Damien George (<http://dpgeorge.net>)

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