

Crowpanel Advance HMI ESP32 AI Display — Factory Demo

Firmware Flashing Guide

Note:

The firmware in this directory comes in different sizes and versions. Please choose the firmware that matches your product.

Firmware and download tool links:

7 inch: https://github.com/Elecrow-RD/CrowPanel-Advance-7-HMI-ESP32-S3-AI-Powered-IPS-Touch-Screen-800x480/tree/master/factory_firmware

5 inch: https://github.com/Elecrow-RD/CrowPanel-Advance-5-HMI-ESP32-S3-AI-Powered-IPS-Touch-Screen-800x480/tree/master/factory_firmware

4.3 inch: https://github.com/Elecrow-RD/CrowPanel-Advance-4.3-HMI-ESP32-S3-AI-Powered-IPS-Touch-Screen-800x480/tree/master/factory_firmware

3.5 inch: https://github.com/Elecrow-RD/CrowPanel-Advance-3.5-HMI-ESP32-S3-AI-Powered-IPS-Touch-Screen-480x320/tree/master/factory_firmware

2.8 inch: https://github.com/Elecrow-RD/CrowPanel-Advance-2.8-HMI-ESP32-S3-AI-Powered-IPS-Touch-Screen-320x240/tree/master/factory_firmware

2.4 inch: https://github.com/Elecrow-RD/CrowPanel-Advance-2.4-HMI-ESP32-S3-AI-Powered-IPS-Touch-Screen-320x240/tree/master/factory_firmware

1. Preparation

- USB C cable
- Laptop / PC
- Crowpanel Advance HMI ESP32 AI Display
- Flash download tool

Check whether the materials on the PCBA board are defective, such as less material, false welding, tin and other bad phenomena.

2. Flash the firmware

Step 1

Connect the ESP32 display to the laptop / PC with a USB-C cable. The power indicator will light up.



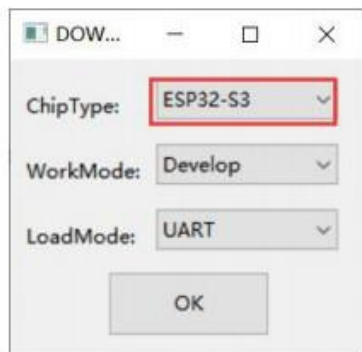
Step 2

Open the flash download tool.

bin	6/7/2024 5:29 P
configure	1/22/2025 10:34
dl_temp	1/22/2025 10:34
doc	1/22/2025 10:34
logs	2/28/2025 11:51
secure	3/19/2024 2:45
flash_download_tool_3.9.7.exe	6/7/2024 8:42 P

Open the flash download tool

For the Crowpanel Advance HMI ESP32 AI Display, the chip select **ESP32-S3**:



Select ESP32-S3

Step 3

① Choose the firmware files:

boot_app0.bin	12/12/2024 12:08 PM
HMI: .ino.bin	12/13/2024 3:32 PM
HMI: .ino.bootloader.bin	12/13/2024 3:26 PM
HMI: .ino.partitions.bin	12/13/2024 3:32 PM

Choose the firmware files

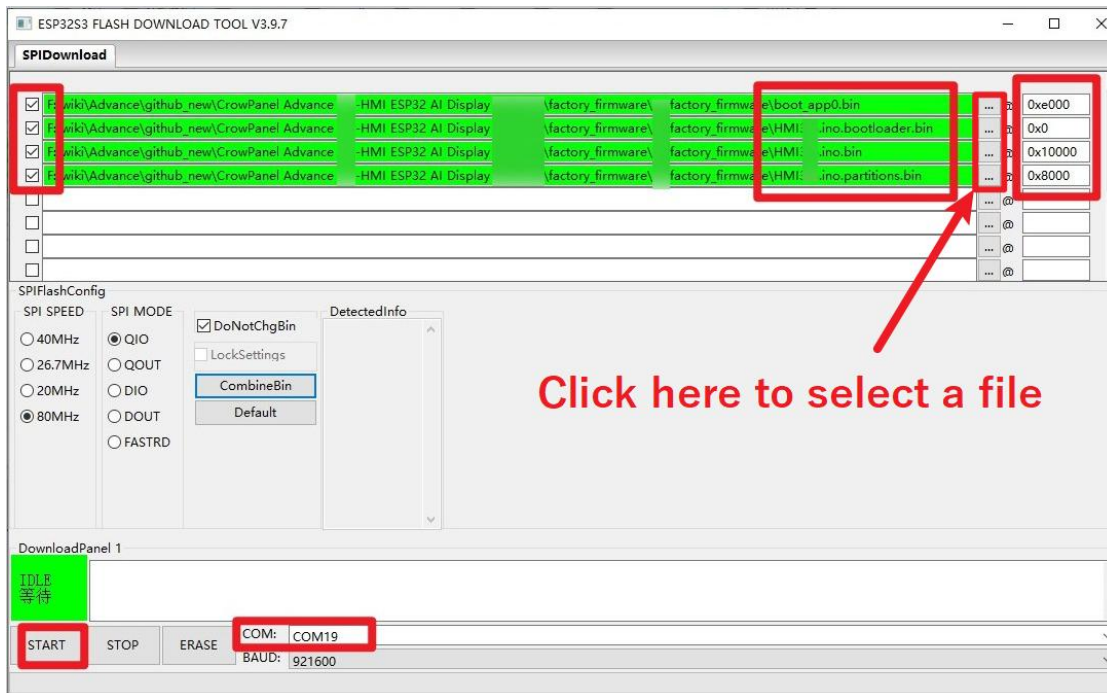
② Enter the address:

File	Address
boot_app0.bin	0xe000
xxxx.ino.bin	0x10000
xxxx.ino.bootloader.bin	0x0
xxxx.ino.partitions.bin	0x8000

③ Check the firmware files;

④ Select the correct port number (COM port);

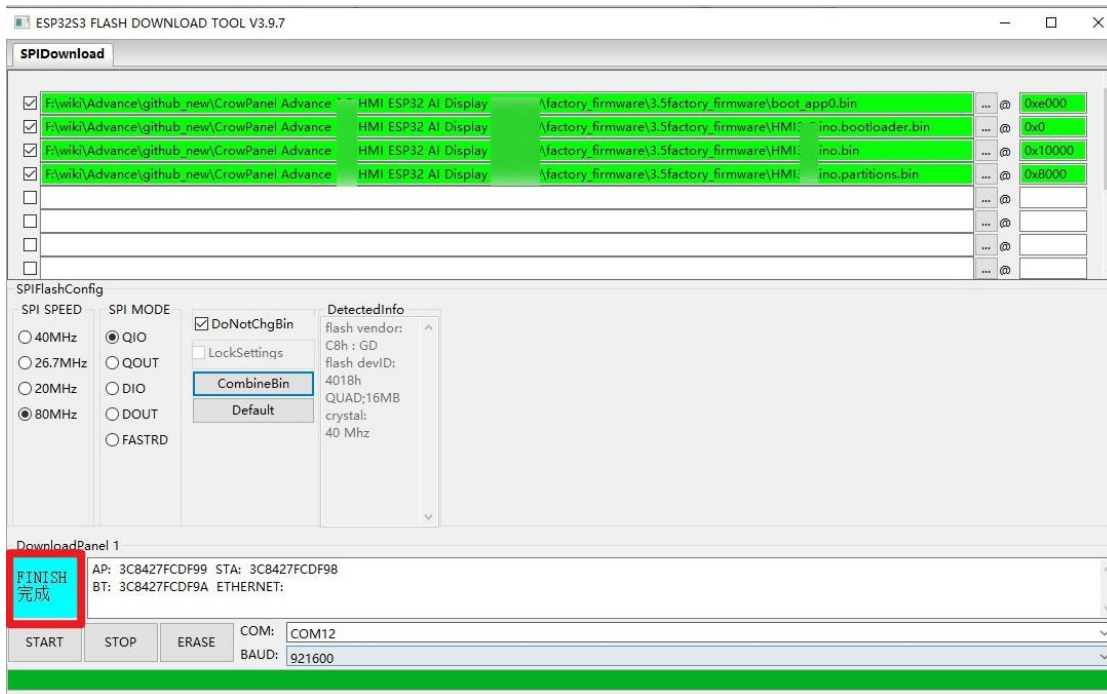
⑤ Click “Start” to download.



Check the files, select the COM port and click Start

Step 4

After the download is complete, blue **FINISH** will be displayed, and the progress bar at the bottom shows that it has come to an end.



Download finished

Step 5

Press the reset button (Reset) to show the demo.

