

Uploading Firefly firmware from the browser

The easiest way to flash a Firefly board needs no Python and no command line: the **Firmware Uploader** page (`/upload.html`) built into this site, running in Chrome or Edge (the only browsers with WebSerial).

Flash in three clicks

- Plug the Wemos D1 Mini in over USB (data cable, CH340 driver installed if the port is missing).
- Open `/upload.html`, click **Connect**, pick the USB serial device. The page syncs with the bootloader and reports the chip (expect ESP8266).
- Click **Flash firmware only** to update while keeping the configuration, or **Flash firmware + filesystem** for a factory-fresh board (wipes panels, rules and settings - back up first).

The images come from this site's `firmware/` folder and are refreshed on every release from the PlatformIO build (`.pio/build/d1_mini/firmware.bin` and `littlefs.bin`). If the page reports a missing file, those copies are stale or absent.

Troubleshooting

- **Failed to connect:** close serial monitors and other uploader tabs (one port holder at a time), try another cable/port, hard-refresh the page, retry. Persistent failure: jumper D3 (GPIO0) to GND, tap RST, connect, flash, remove the jumper.
- **Port not listed:** install the CH340 driver, then reload the page.
- **Slow but working is fine:** the initial sync runs at 115200 baud for reliability with clone boards.
- Prefer the terminal? See the companion `esptool.py` guide for the equivalent commands.