

Update/Restore using SD-Card

📄 SD-Card Installation Guide Notice

The direct SD-card installation method is **temporarily unavailable** for the latest OS images.

Workaround: If you must use an SD card, you can flash an older compatible image first, boot the device, and perform an OTA update to the latest version. Otherwise, we highly recommend skipping the SD card entirely and using the new [SMHUB Flasher](#) tool over Type-C for a direct install.

📄 **Download the firmware ZIP** from your usual link (latest):

SD-CARD RESTORE FIRMWARE: **prod:** [os_v0.9.9](#) , **dev:** [os_v1.0.0.dev3](#) (previous: [os_v0.3.11](#) | [os_v0.3.10](#) | [os_v0.3.7](#)) and save the ZIP file to your computer (e.g., `Downloads`).

You'll need:

- A **microSD card** (8-64 GB is ideal) + **microSD-to-SD** adapter if your PC needs it
- A Windows PC
- A way to read/write the microSD card (built-in reader or USB adapter)

?? What You'll Do

1. Download the ZIP file with the firmware
2. Format microSD to **FAT32**
3. Copy **three files** from the archive folder ROM onto the **root** of the card
4. Insert the card into the SMHUB (**click** fully)
5. Power on → **wait ~4 minutes** (silent)
6. Power off → **remove the card**
7. Power on → watch LED cues → open **smhub.loca**

1) Get the firmware and unzip it

1. Click the firmware link above and **download the ZIP** to your computer (e.g., Downloads).
[screenshot: browser download]

2. **Right-click** the ZIP → **Extract All...** → choose a simple folder (e.g., `C:\SMHUB\firmware\`).

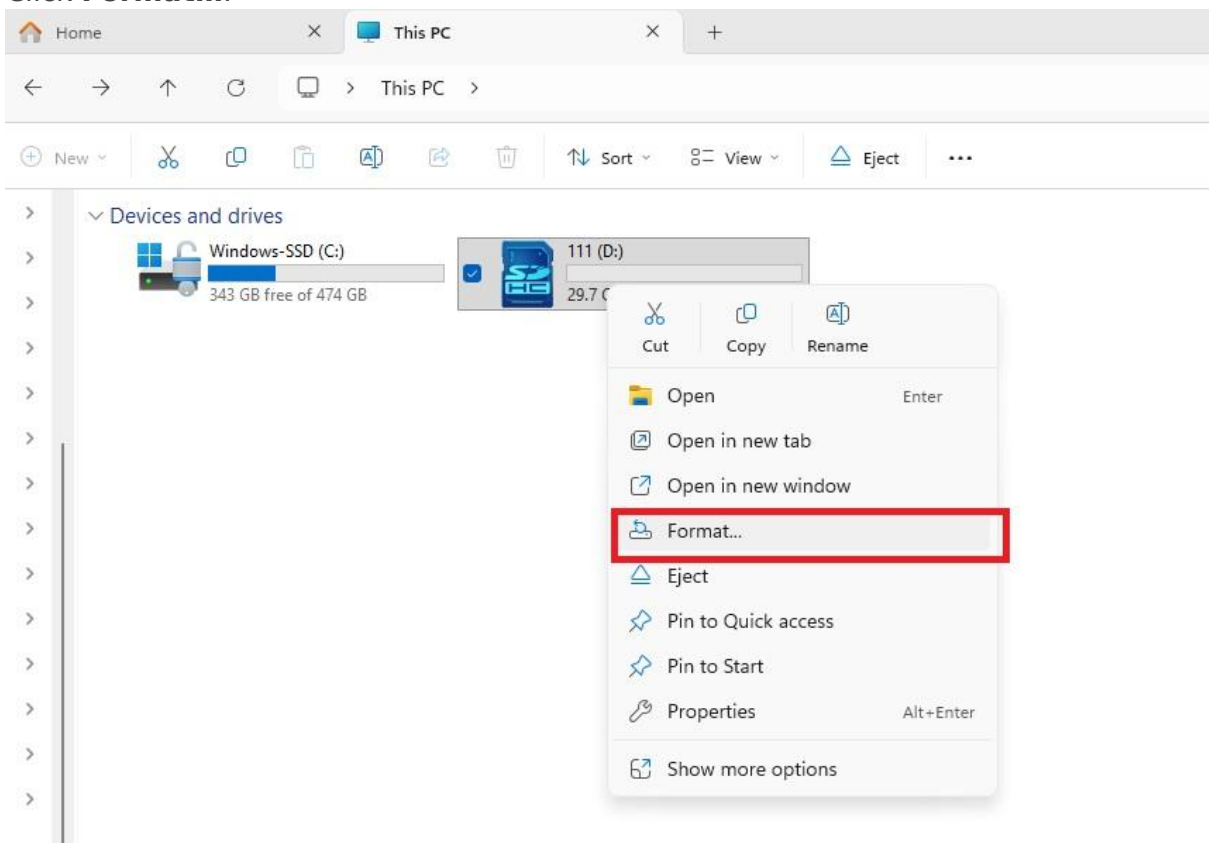
Inside the unzipped folder, you'll see these **three files** in the **rom** folder. You'll copy them to the SD card:

- `emmc.img`
- `fip.bin`
- `partition_gpt.xml`

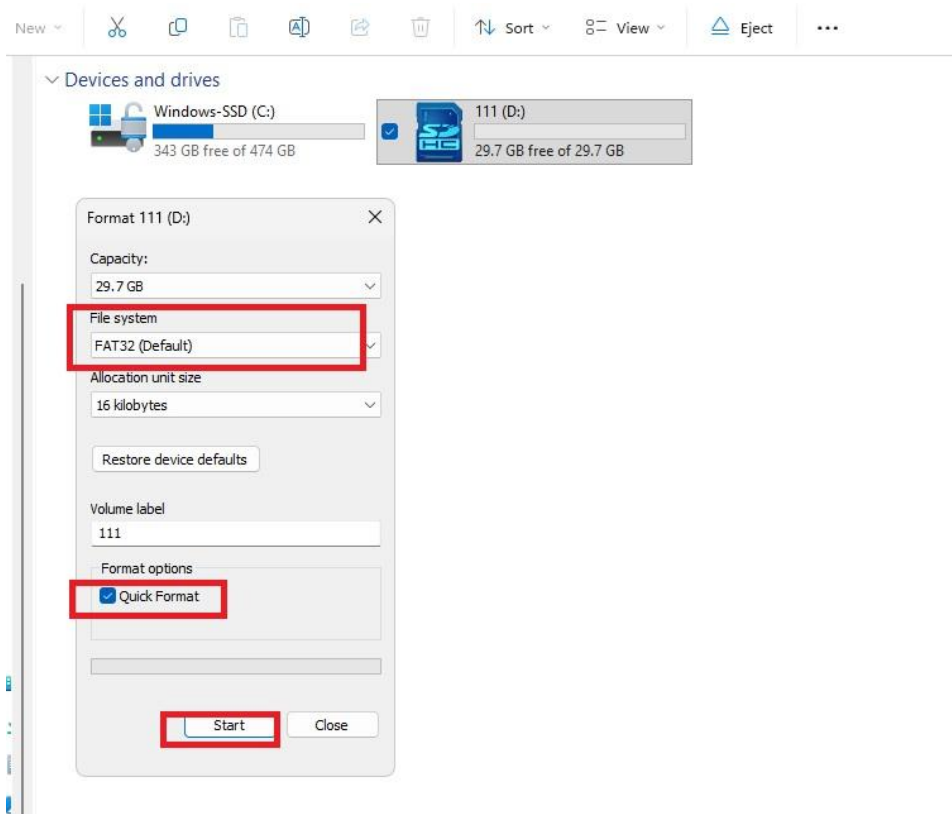
2) Format the microSD card to **FAT32**

“ This erases the card completely. Back up anything important first.

1. Insert the **microSD** (or SD adapter with the microSD inside) into your PC.
2. Open **This PC** (Windows Explorer).
3. **Right-click** the SD card drive (e.g., “SDHC (E:)”).
4. Click **Format...**

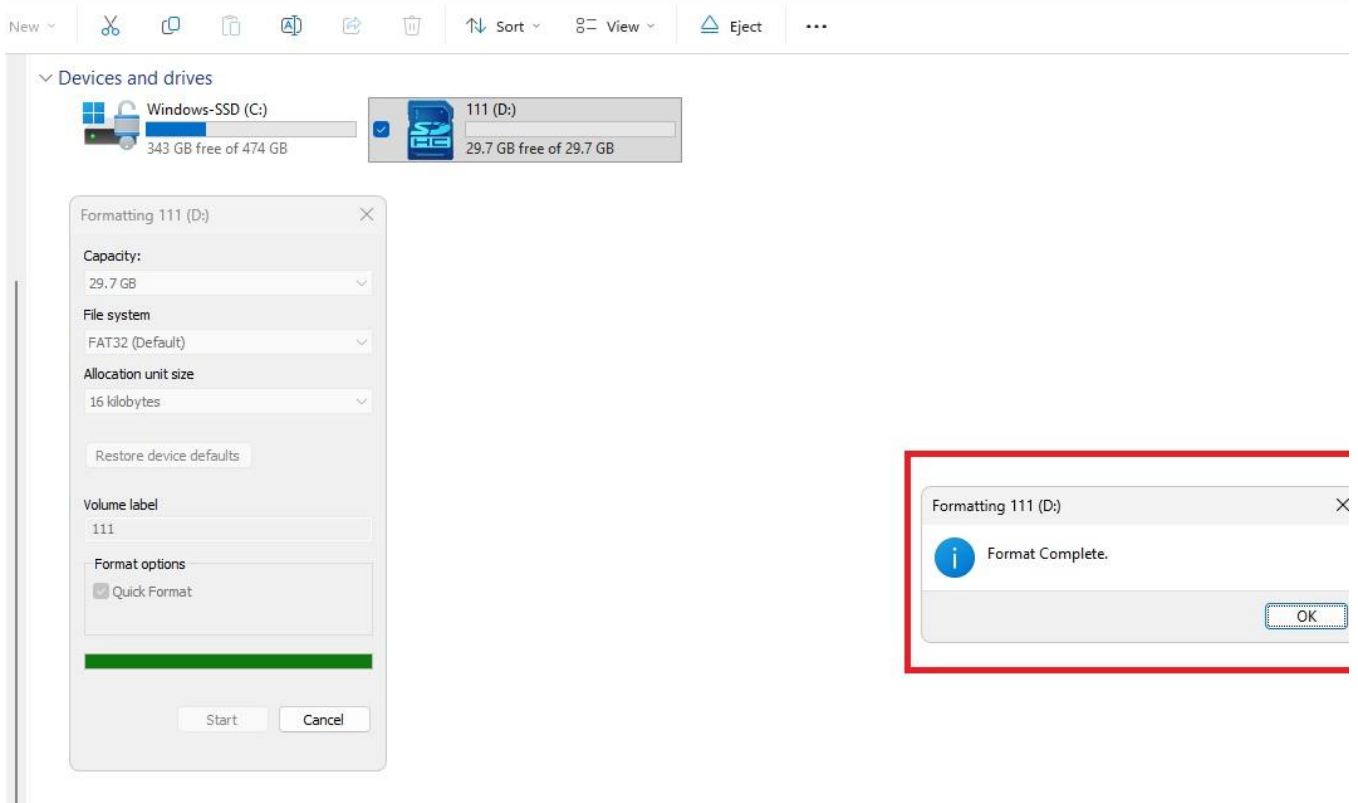


5. In the **Format** window:
 - **File system:** choose **FAT32**
 - **Allocation unit size:** leave **Default or 16kb**
 - **Volume label:** optional (e.g., `SMHUB`)
 - **Quick Format:** **checked** (recommended)



6. Click **Start**, then **OK/Yes** to confirm.

7. Wait for the **Format Complete** message → click **OK** and **Close**.

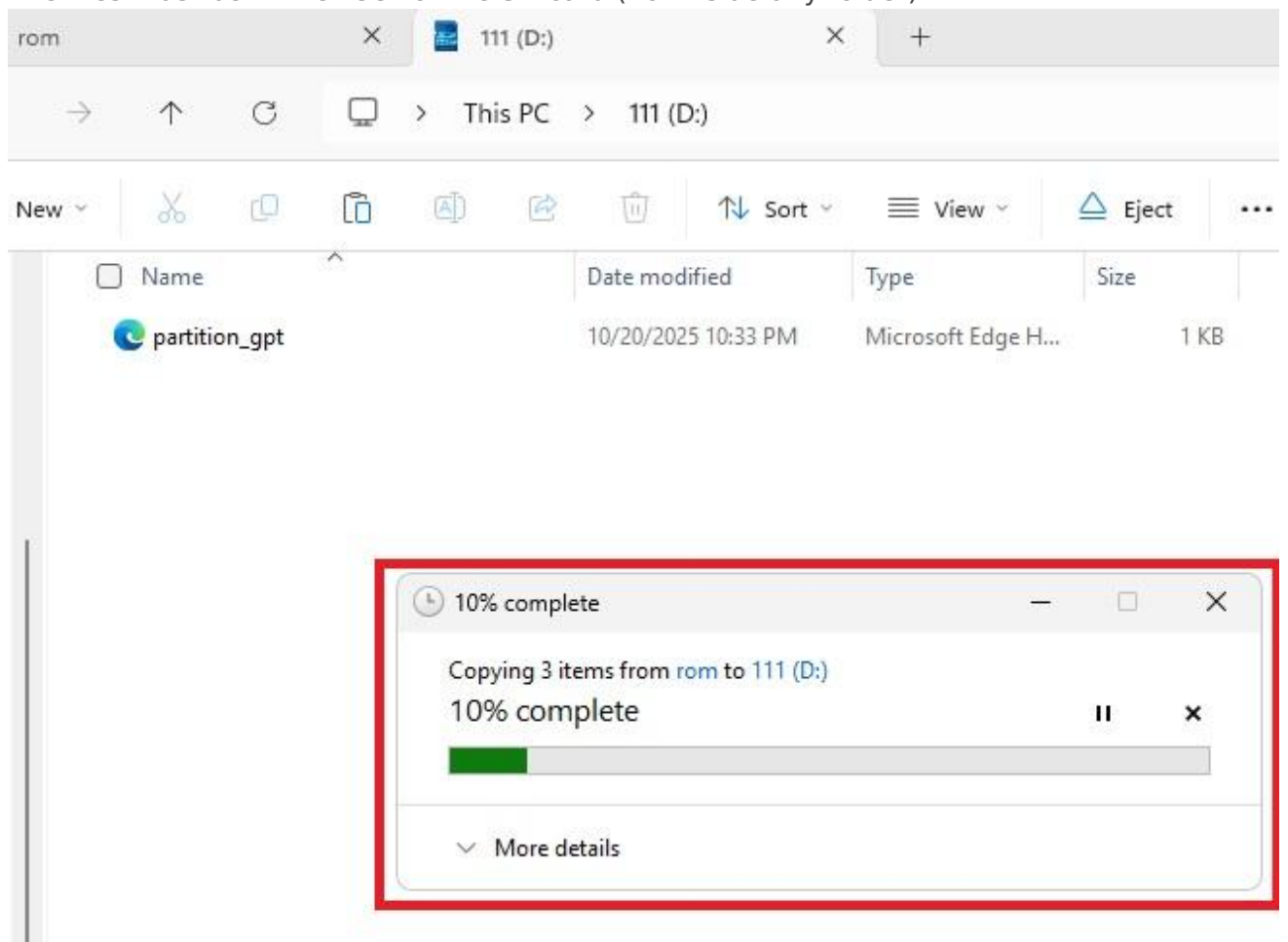


“ **Tip:** If your SD card is larger than 32 GB and FAT32 isn't shown, try another (smaller) card. (Advanced users: a third-party FAT32 formatter also works.).

Check the lock switch: If you're using a full-size SD adapter, make sure the **tiny switch on its side is not set to "LOCK."** If locked, Windows won't let you copy files.

3) Copy the **three files** to the **root** of the SD card

1. Open the folder you unzipped earlier.
2. **Select these three files:**
`emmc.img`, `fip.bin`, `partition_gpt.xml`
3. **Copy** them (Ctrl+C).
4. Open your SD card drive in **This PC** and **Paste** (Ctrl+V).
 - The files must be in the **root** of the SD card (not inside any folder).



5. When copying finishes, **right-click** the SD card drive → **Eject** → remove the card.

4) Insert the microSD card into the SMHUB

- With the SMHUB **powered OFF**, insert the microSD into the slot.



- **Push until you feel a “click.”** It must be fully seated.



5) Power ON and wait ~4 minutes until completion

- Connect power to the SMHUB.
- The device will automatically and silently flash itself from the SD card.
 - The blue LED (located near the IR transmitter) will begin blinking slowly (approximately once every 2 seconds), indicating that the flashing process has started. Please note that LED indications during SD-card flashing are available only starting from firmware **0.3.1-dev2 (24 Oct 2025)**.