

# Update/Restore using SD-Card

☐ **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**

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## 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\`).

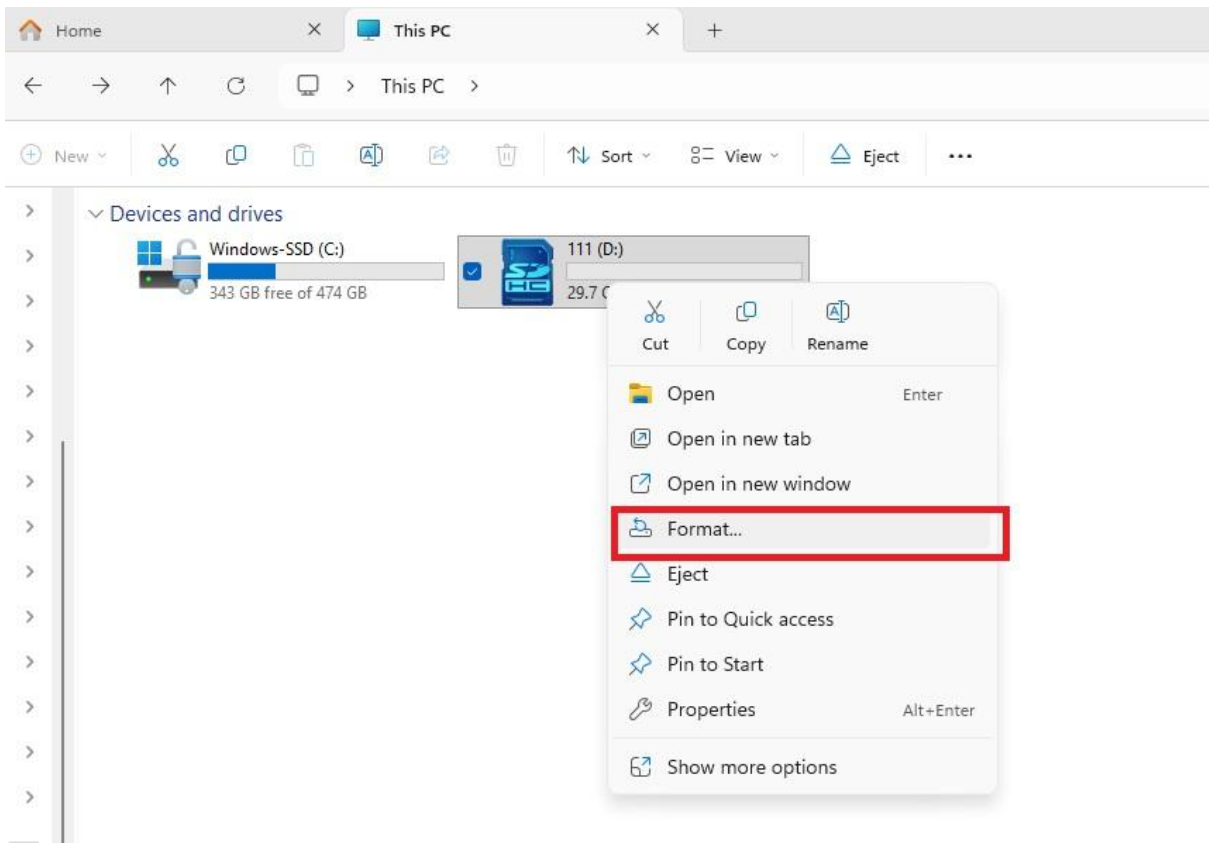
Inside the unzipped folder, you'll see these **three files** in the **rom** folder. You'll copy them to the SD card:

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

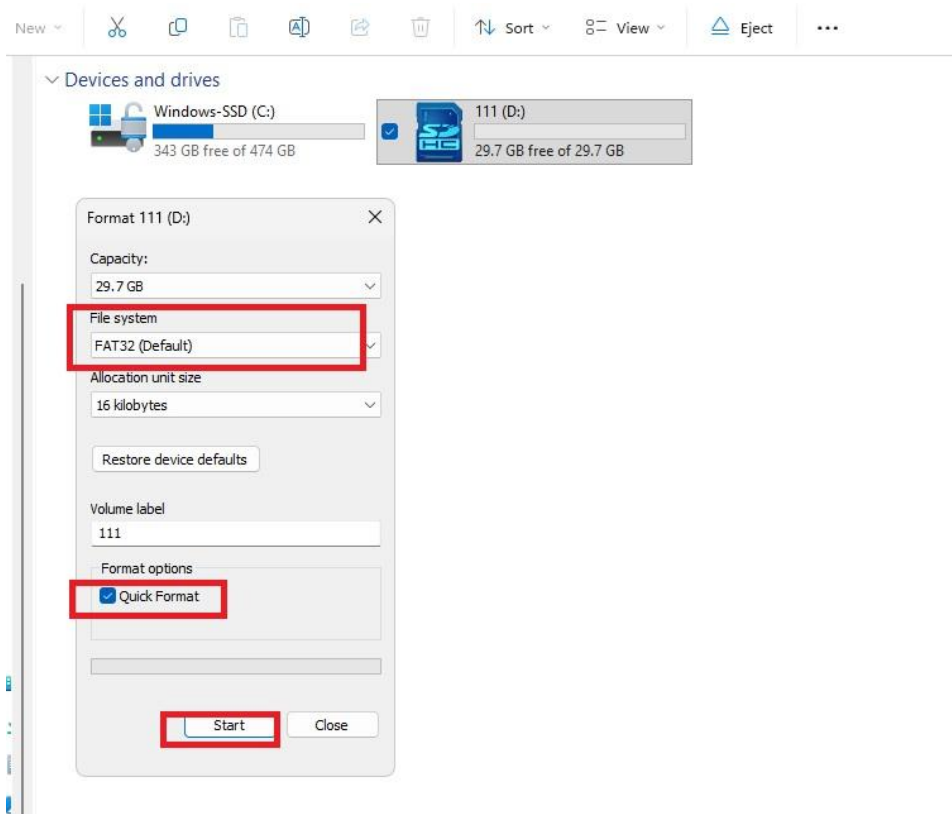
## 2) Format the microSD card to **FAT32**

“ 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...**

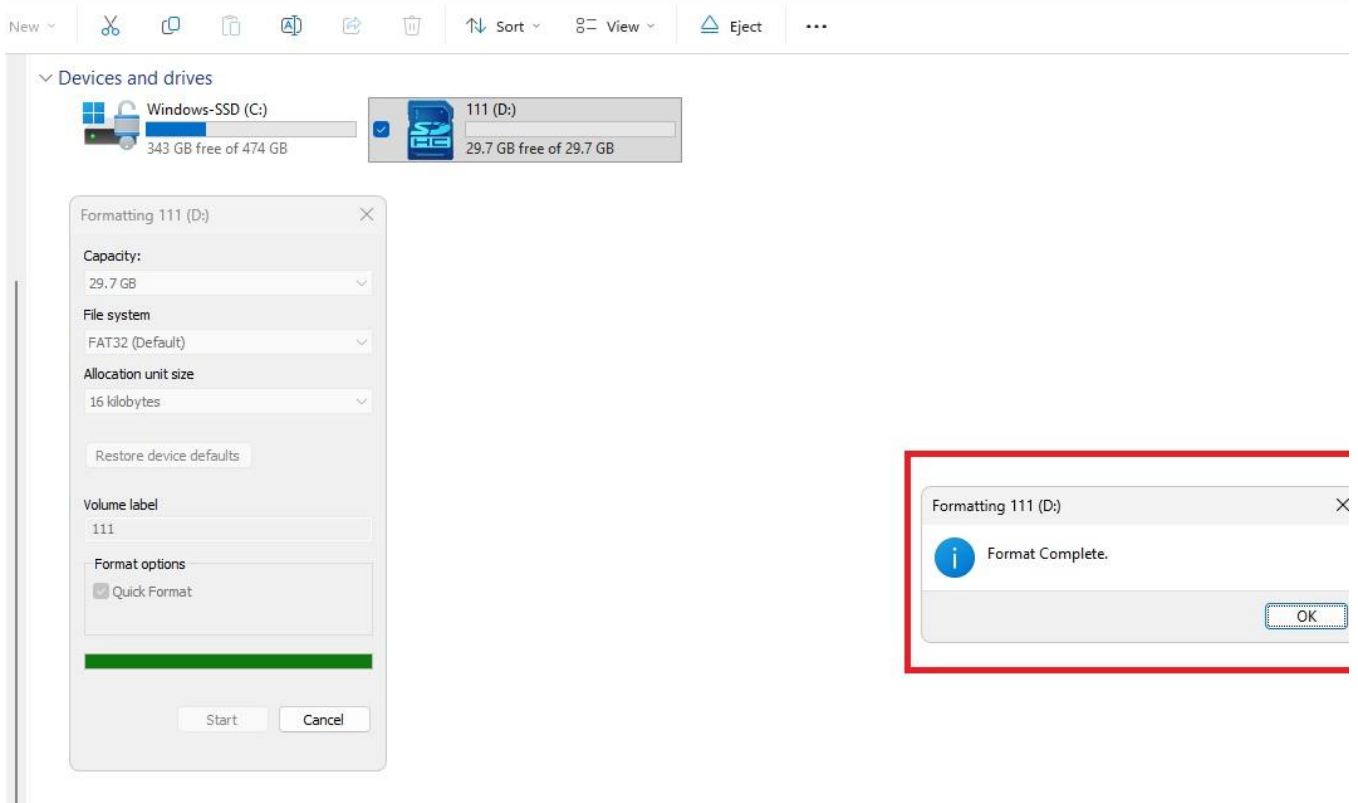


5. In the **Format** window:
  - **File system:** choose **FAT32**
  - **Allocation unit size:** leave **Default or 16kb**
  - **Volume label:** optional (e.g., )
  - **Quick Format:** **checked** (recommended)



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

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

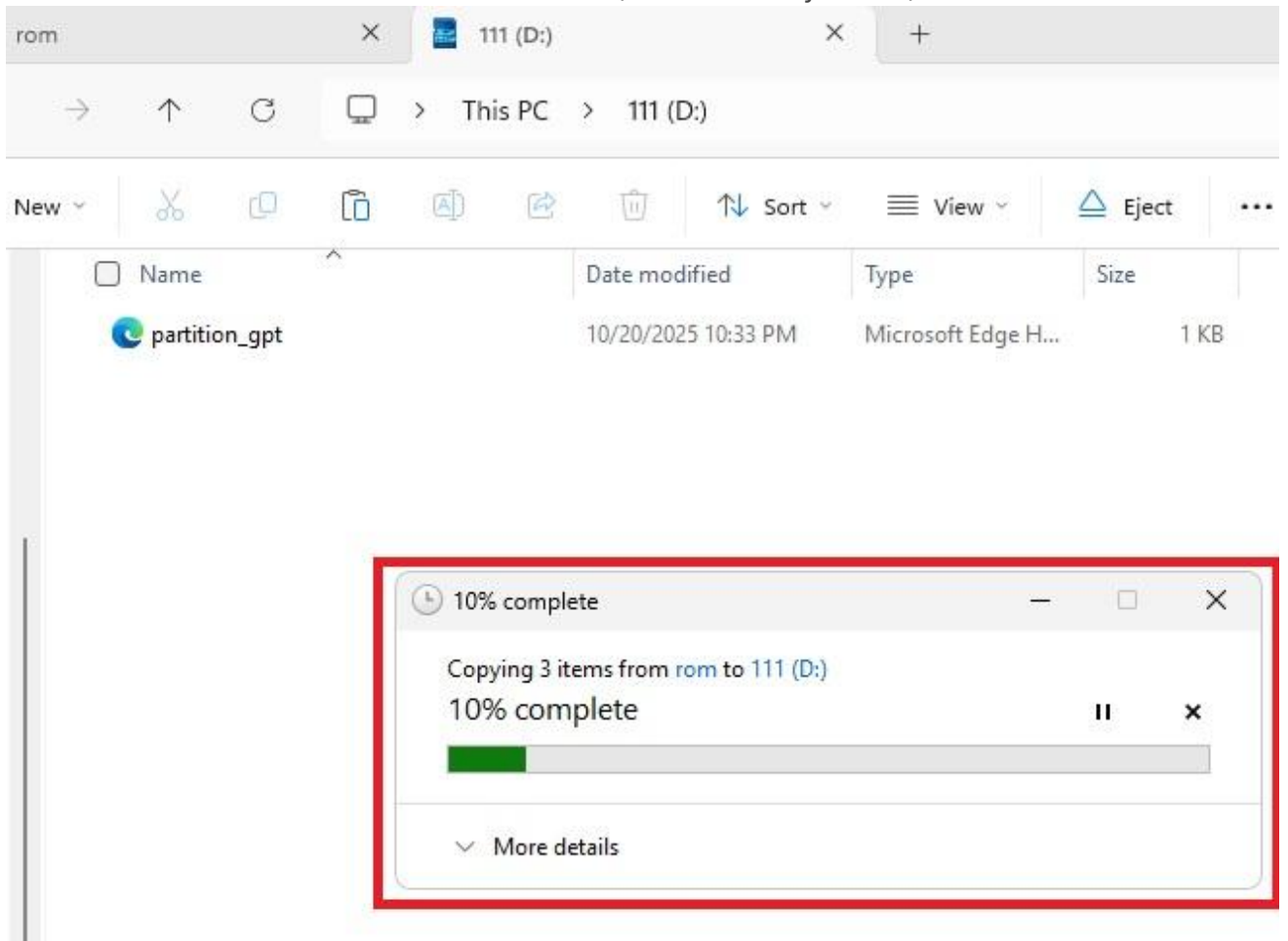


“ **Tip:** If your SD card is larger than 32 GB and FAT32 isn't shown, try another (smaller) card. (Advanced users: a third-party FAT32 formatter also works.).

**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)**.

