

Radxa Zero



Under construction. Be warned, some sets of instructions are incomplete.

Some manual steps are required to install custom operating systems onto the Radxa Zero. You will need a computer with Python 3 (with PIP3) installed with a live environment running.

Flash onto micro-SD card

This involves editing the eMMC, however only the bootloader will be flashed onto it. Batocera will be flashed onto the micro-SD card.

1. [Flash Batocera](#) onto the micro-SD card using an external reader.
2. Connect the Radxa Zero to the computer via USB2/PWR OTG USB-C port (can use a USB-C-to-USB-C or USB-C-to-full-sized USB-A cable). This is the port closest to the corner.
3. Press the USB button underneath the board.
4. Open up a terminal window on your computer:
 - If on **Arch Linux**:
 1. Run the following:

```
sudo pacman -S fastboot wget python3-pip
sudo pip3 install pyamlboot

wget
https://dl.radxa.com/zero/images/loader/factory-loader.img
sudo boot-g12.py factory-loader.img
sudo fastboot flashing unlock_critical
sudo fastboot flashing unlock

wget
https://dl.radxa.com/zero/images/loader/rz-fastboot-loader.bin
sudo boot-g12.py rz-fastboot-loader.bin
sudo fastboot erase bootloader
sudo fastboot erase 0
sudo fastboot erase 1

wget
https://dl.radxa.com/zero/images/loader/rz-udisk-loader.bin
sudo boot-g12.py rz-udisk-loader.bin

wget https://dl.radxa.com/zero/images/loader/u-boot.bin
sudo dd if=u-boot.bin of=/dev/sdx bs=512 seek=1
```

2. (Optional) Remove the downloaded files if you never intend to flash again.



- (these instructions are incomplete) If on **Windows**:
 1. Ensure [Python 3](#) is installed with the PIP3 module (check with `pip3 version` while inside an interactive Python environment) and accessible in your command prompt from any directory.
 - You may have to install the driver using [Zadig](#):
 1. Install and run Zadig.
 2. Confirm that the device is GX-CHIP and that its USB ID is 1B8E:C003.
 3. Choose **libusb-win32** as the driver and install it.
 4. Download [Google's Windows Android driver](#).
 5. Right-click `android_winusb.inf` and click **Install**.
 2. Download and extract [Android's SDK Platform Tools for Windows](#) to get the `fastboot` tool.
 3. Navigate to the `platform tools` folder.
 4. Download [rz-udisk-loader.bin](#) and save it to the `platform tools` folder.
 5. Open a command prompt with administrative privileges and navigate to the `platform tools` folder:

```
cd "C:\path\to\platform tools\"
```

6. Run the following (you should be in the same directory as where you saved the `rz-udisk-loader.bin` file to):

```
pip3 install git+https://github.com/superna9999/pyamlboot
boot-g12.py rz-udisk-loader.bin
```

rest of the code is WIP

5. Reboot the Radxa to get into Batocera.

Flash onto eMMC

1. Remove any Micro-SD card that you might have in the Radxa Zero.
2. Connect the Radxa Zero to the computer via USB2/PWR OTG USB-C port (can use a USB-C to USB-C or USB-C to full-sized USB-A cable). This is the port closest to the corner.
3. Press the USB button underneath the board. The Radxa is now attempting to connect to your computer as a USB device.
 - If on **Windows** you may have to install the driver using [Zadig](#):
 1. Install and run Zadig.
 2. Confirm that the device is GX-CHIP and that its USB ID is 1B8E:C003.
 3. Choose **libusb-win32** as the driver and install it.
 4. Download [Google's Windows Android driver](#).
 5. Right-click `android_winusb.inf` and click **Install**.
4. Open up a terminal window on your computer:
 - If on **Windows**:
 1. Ensure [Python 3](#) is installed with the PIP3 module (check with `pip3 version` while inside an interactive Python environment) and accessible in your command prompt from any directory.
 2. Download [rz-udisk-loader.bin](#) and store it somewhere easy to access.
 3. Open a command prompt with administrative privileges and run the following in the same directory you saved the BIN file to:

```
pip3 install pyamlboot
boot-g12.py rz-udisk-loader.bin
```

- If on a generic **Linux** distribution with coreutils and Python3:
 1. Install python3-pip for your distribution.
 2. Run the following:

```
sudo pip3 install pyamlboot
wget
https://dl.radxa.com/zero/images/loader/rz-udisk-loader.bin
sudo boot-g12.py rz-udisk-loader.bin
```

5. At some point the Radxa's internal eMMC should have appeared as a regular USB storage device on your computer. [Flash Batocera](#) onto it as you would any other micro-SD card.
6. Reboot your Radxa and enjoy. 😁

From:
<https://www.wiki.batocera.org/> - **Batocera.linux - Wiki**

Permanent link:
https://www.wiki.batocera.org/hardware:radxa_zero?rev=1632997220

Last update: **2021/09/30 10:20**

