

OpenABL is a modified bootloader that replaces the stock Android launcher on Qualcomm-based devices.

It adds a visual boot menu right when you turn on your device.

This allows you to easily choose whether to boot into a standard Linux system or Android.

It is required to install it to boot batocera.linux on some devices.

The installation of OpenABL doesn't remove Android. You can install batocera.linux on a sdcard and keep both, Android and batocera.linux on the device.

Project page : <https://github.com/OpenHandheldCollective/OpenABL>

## Install OpenABL

### Devices

The following devices requires you install OpenABL to boot batocera.linux.

- Mangmi Air Y
- Mangmi Air Y Pro

### Steps

1. Flash batocera.linux on a sdcard
2. Start Android
3. Insert the sdcard
4. Find the menu to execute the scard backup\_and\_flash.sh script as root
5. Reboot the device and go in the OpenABL menu
6. Configure the device model
7. Configure to boot on linux
8. Play batocera.linux

### Detailed steps

#### Flash batocera.linux on a sdcard

This step is the standard way to flash a batocera.linux sdcard, nothing else special to do.

#### Start Android

Press the power button to start Android.

## Insert the sdcard

Insert the batocera.linux sdcard into the device.

## Find the menu to execute the scard backup\_and\_flash.sh script as root

This part is specific to each device.

| Device                  | Android menu                                                 |
|-------------------------|--------------------------------------------------------------|
| <b>Mangmi Air Y</b>     | Settings → Handheld Settings → Advanced → Run Script as Root |
| <b>Mangmi Air Y Pro</b> | Settings → Handheld Settings → Advanced → Run Script as Root |

1. Go in the Execute script as root menu.
2. Choose the script backup\_and\_flash.sh that is on top of the sdcard (not yet implemented)
3. Validate the execution

## Reboot the device and go in the OpenABL menu

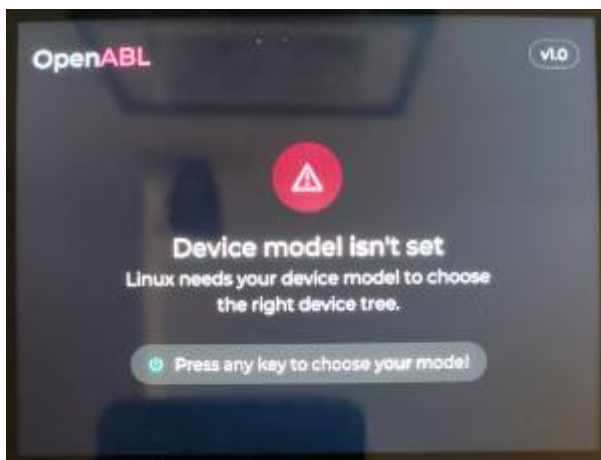
From Android, shutdown the device. Then, keep the volume down button pressed and press power.

Note: on the Mangmi Air Y and Air Y Pro, the volume down button is the button under the volume wheel.

## Configure the device model

The following message can appear.

You have to tell to openabl which device you are running. You can use only volume up/down button to navigate and power button to validate.



Go on the line "Device model" and select yours. Mangmi Air Y in the example.



## Configure to boot on linux

In the OpenAbl menu, select linux on Boot mode. Then go on start linux.



## Play batocera.linux

As usual.

## Boot Android

In the OpenAbl menu, select Android on Boot mode. Then go on start Android.

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