

Buildroot Linux Qt 5.15 OS

document

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Buildroot Linux Qt 5.15 OS

Buildroot Linux Qt 5.15 OS on RK3568 User Manual



Flashing OS Image

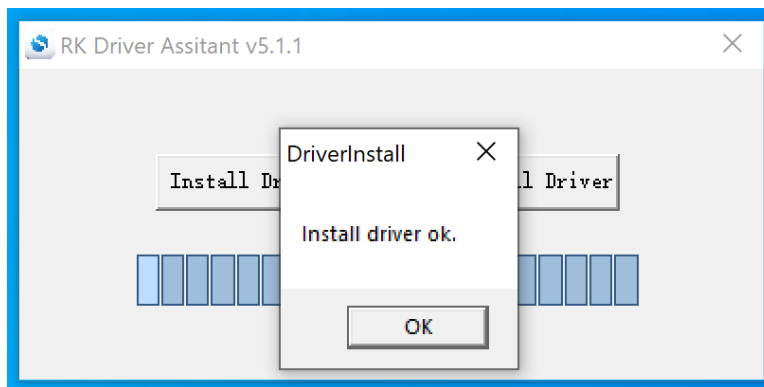
Download Required Tools

You need two tools to flash the Buildroot Linux Qt 5.15 OS image to the RK3568 PC. The first is *DriverAssistant_v5.1.1*, the second is *RKDevTool_v2.93*, you can [download all of them here](#).

These tools are Windows executables, please execute them on a Windows machine.

If you've been using a prior version of *DriverAssistant*, click uninstall before installing *DriverAssistant_v5.1.1*.

Name	Date modified	Type	Size
ADBDriver	2/26/2023 9:21 AM	File folder	
bin	2/26/2023 9:21 AM	File folder	
Driver	2/26/2023 9:21 AM	File folder	
Log	1/11/2023 11:24 AM	File folder	
config	6/3/2014 3:38 PM	Configuration settings	1 KB
DriverInstall	11/10/2020 2:15 PM	Application	490 KB




Download Prebuilt OS Images

If you haven't downloaded the prebuilt OS images, you can [find one here](#).

Start Flashing

After installing the DriverAssistant, you can now start to flash an OS image to the RK3568 board with *RKDevTool*. Double click the program to start flashing. The tool has English and Chinese language support.

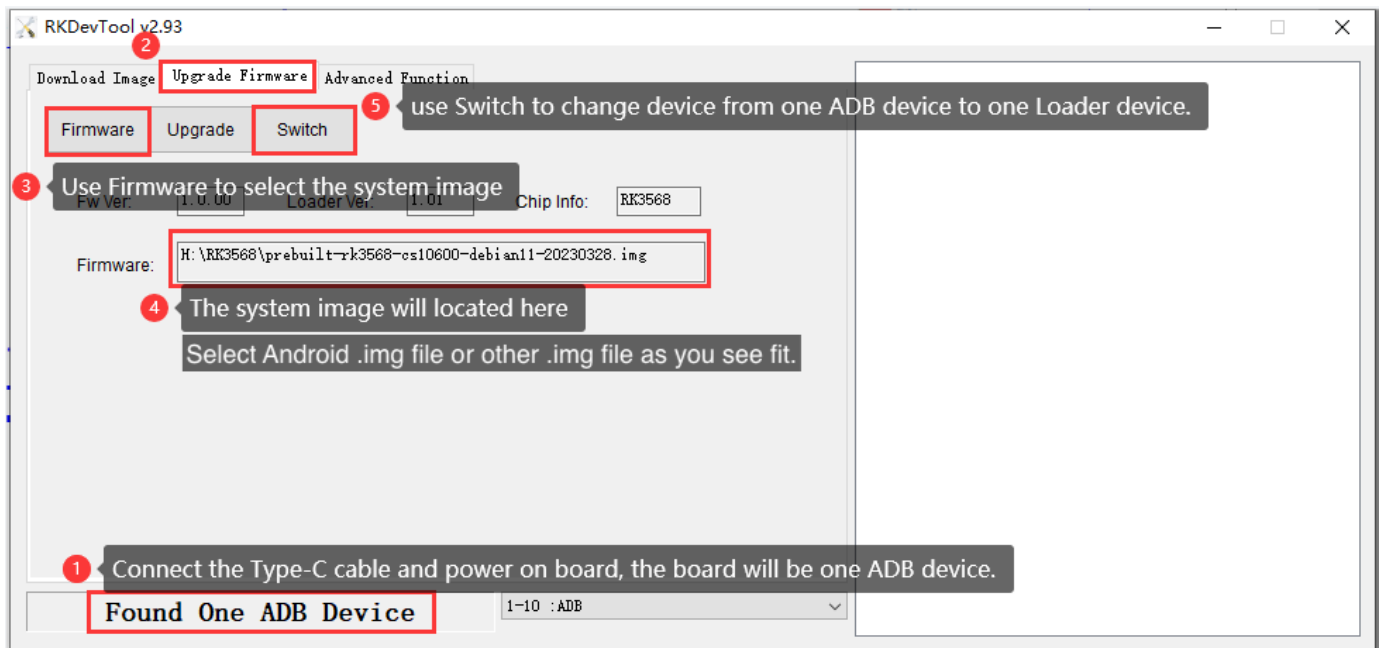
is PC > Downloads > RKDevTool_Release_v2.93 > RKDevTool_Release_v2.93

Name	Date modified
bin	2/26/2023 9:21 AM
Language	5/23/2023 8:10 AM
Log	5/23/2023 8:10 AM
Android7_to_Android11	10/18/2022 10:57 AM
config.cfg	5/23/2023 8:11 AM
config	5/23/2023 8:11 AM
README	10/18/2022 11:10 AM
revision	1/19/2022 5:38 PM
 RKDevTool	1/19/2022 5:37 PM

STEP 1:

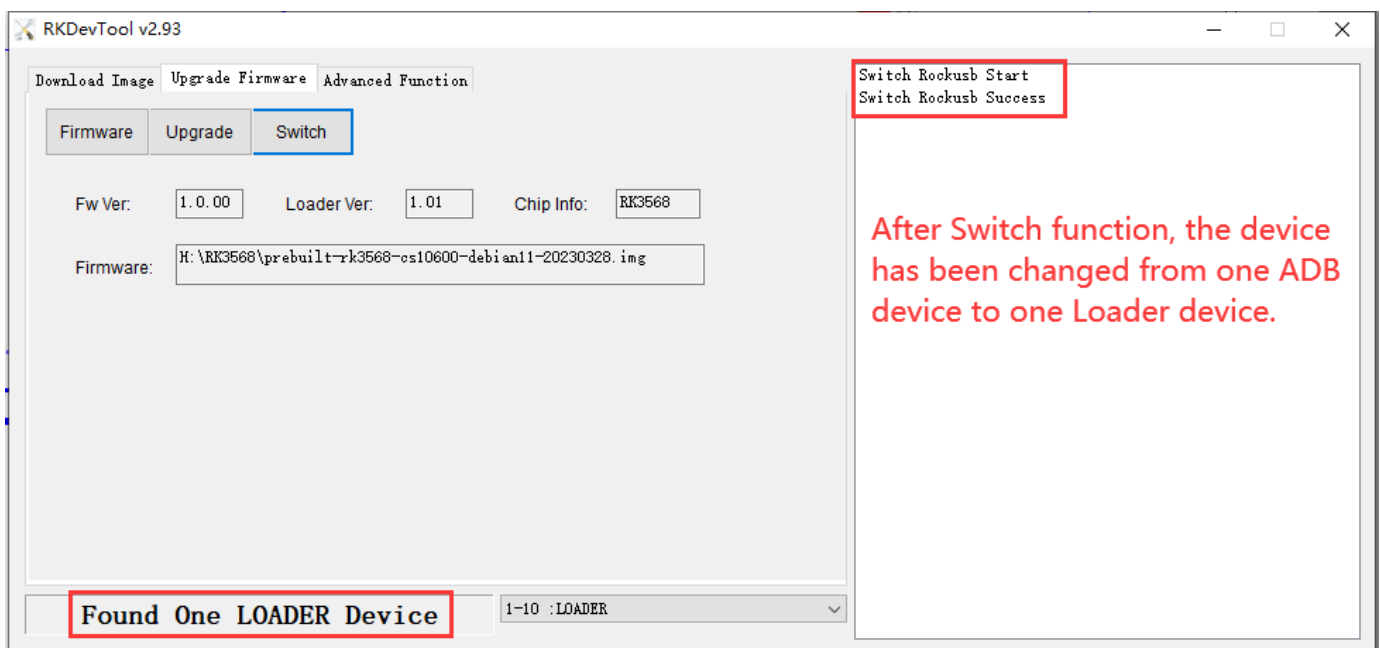
1. Connect the Type-C cable and power on the board. (If unexpected messages occurs at any of the following steps, try plugging the Type-C cable again.)
2. Click **Upgrade Firmware** tab.

- Click **Firmware** button to select a .img Buildroot Linux Qt 5.15 image file. The screenshots show a debian11 img file is selected, but this is applicable to other OSes as well.



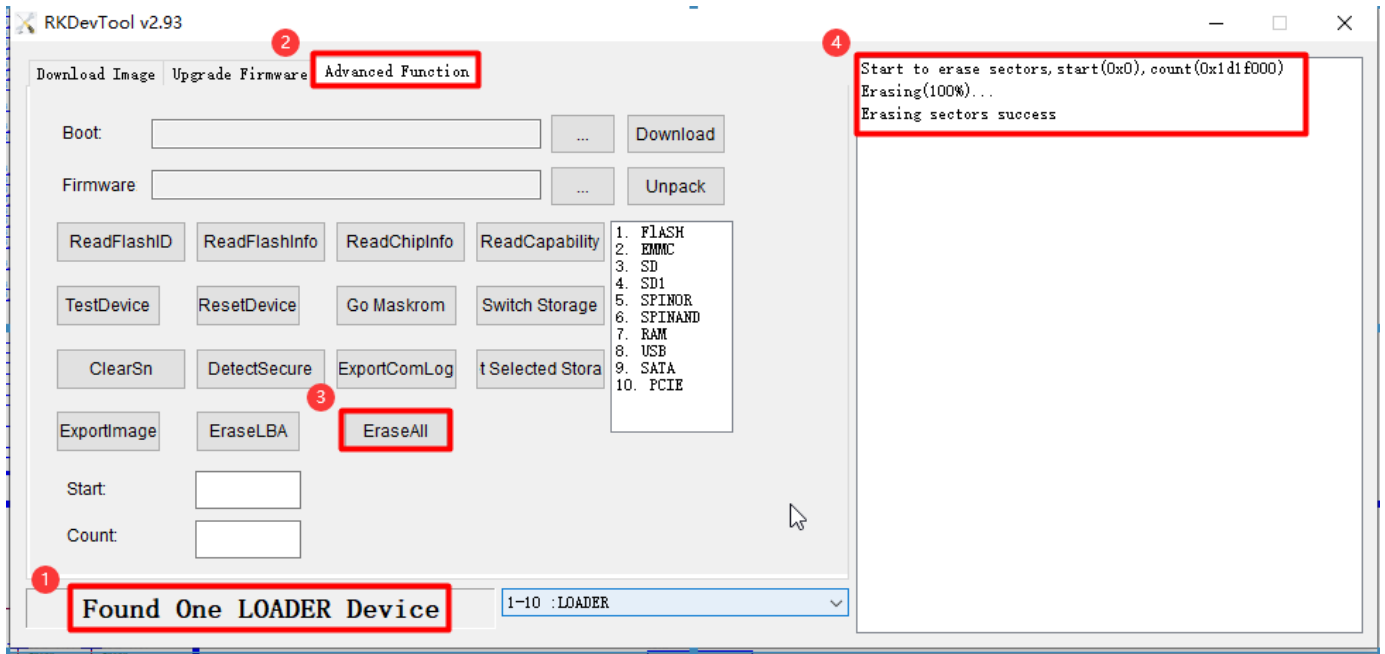
STEP 2:

- Click **Switch** button to switch the device to a Loader device.

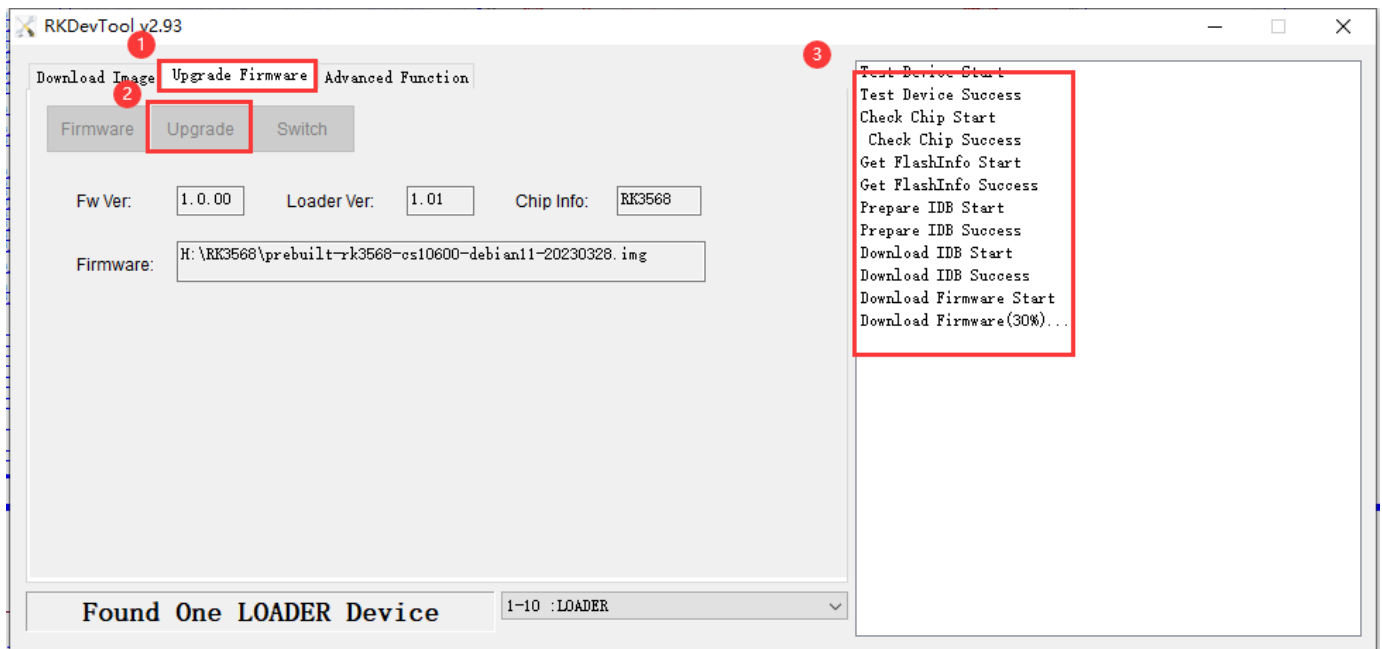


STEP 3:

1. You should see "Found One LOADER Device".
2. Click **Advanced Function** tab.
3. Click **EraseAll** button.
4. You should see "Erasing sectors success" on the right side logs.

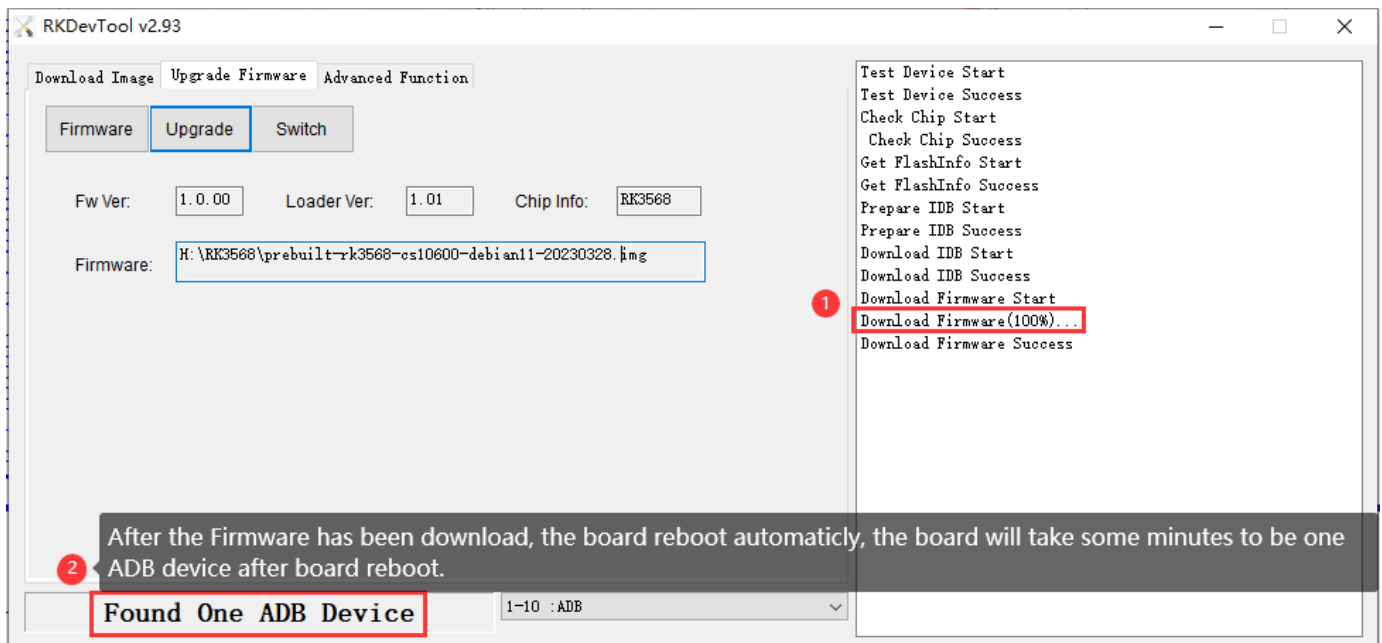
**STEP 4:**

1. Click **Upgrade Firmware** tab.
2. Click **Upgrade** button.
3. You should see Download Firmware progress on the right side logs.



STEP 5:

1. After the download firmware progress goes to 100%, the board reboots itself automatically.
2. After a few minutes, you should see "Found One ADB Device".
3. Now your new OS is ready for use.



Notice

(This Buildroot Linux Qt 5.15 OS User Manual is under active development as of 2023.5.23)