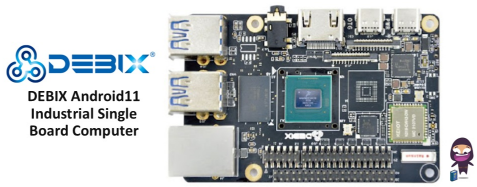

DEBIX Android11 Industrial Single Board Computer User Guide

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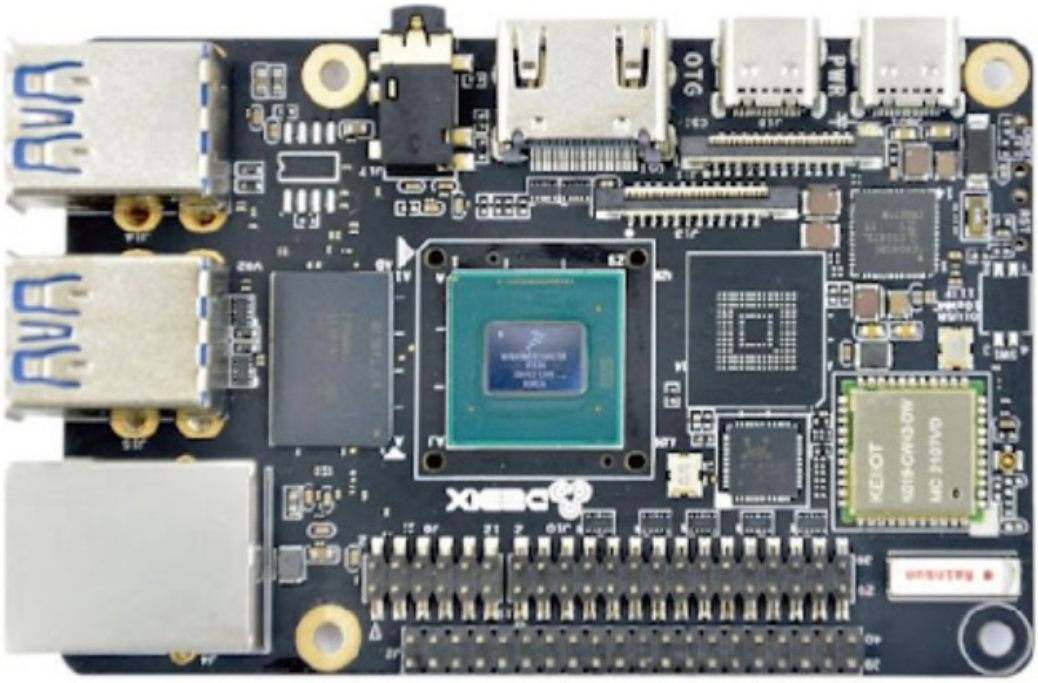
DEBIX Android11 Industrial Single Board Computer



Android 11 Flashing Guide
Provided by Polyhex Technology Co., Ltd.

Introduction
This guide provides instructions for flashing Android 11 on DEBIX boards using a Windows PC.

Requirements

- PC with Windows 10 or Windows 11
- Type-C cable
- USB flash firmware: **Download here**

Flashing Instructions

Prepare the Environment

1. Download and decompress the USB flash firmware to any directory on your PC.
2. Run Windows PowerShell as an administrator.
3. Navigate to the directory where the firmware was decompressed.

Burn to Micro SD
Select the appropriate burn instruction based on DDR and eMMC configuration:

- 2G DDR: `./uuu_imx_android_flash.bat -f imx8mp -a -e -t sd`
- 4G DDR: `./uuu_imx_android_flash-4g.bat -f imx8mp -a -e -t sd`
- 8G DDR: `./uuu_imx_android_flash-8g.bat -f imx8mp -a -e -t sd`

Burn to eMMC
If the eMMC capacity is 32GB, use the following commands:

- 2G DDR: `./uuu_imx_android_flash.bat -f imx8mp -a -e -c 28`
- 4G DDR: `./uuu_imx_android_flash-4g.bat -f imx8mp -a -e -c 28`
- 8G DDR: `./uuu_imx_android_flash-8g.bat -f imx8mp -a -e -c 28`

Connect and Flash

1. Connect the PC to the DEBIX OTG interface using the Type-C cable.
2. Switch the DIP switch to 01 (USB flash mode).
3. Power on the DEBIX board.
4. Wait for the burning progress bar to appear and complete. The word “DONE” will confirm completion.
5. Switch the DIP switch to 10 (eMMC boot mode) and power on the mainboard.

Specifications

Android Version	11
Release Date	03 Sep, 2024
Version	V1.1.5
System	64-bit
Kernel Version	5.10.9
File Size	491MB

Additional Resources

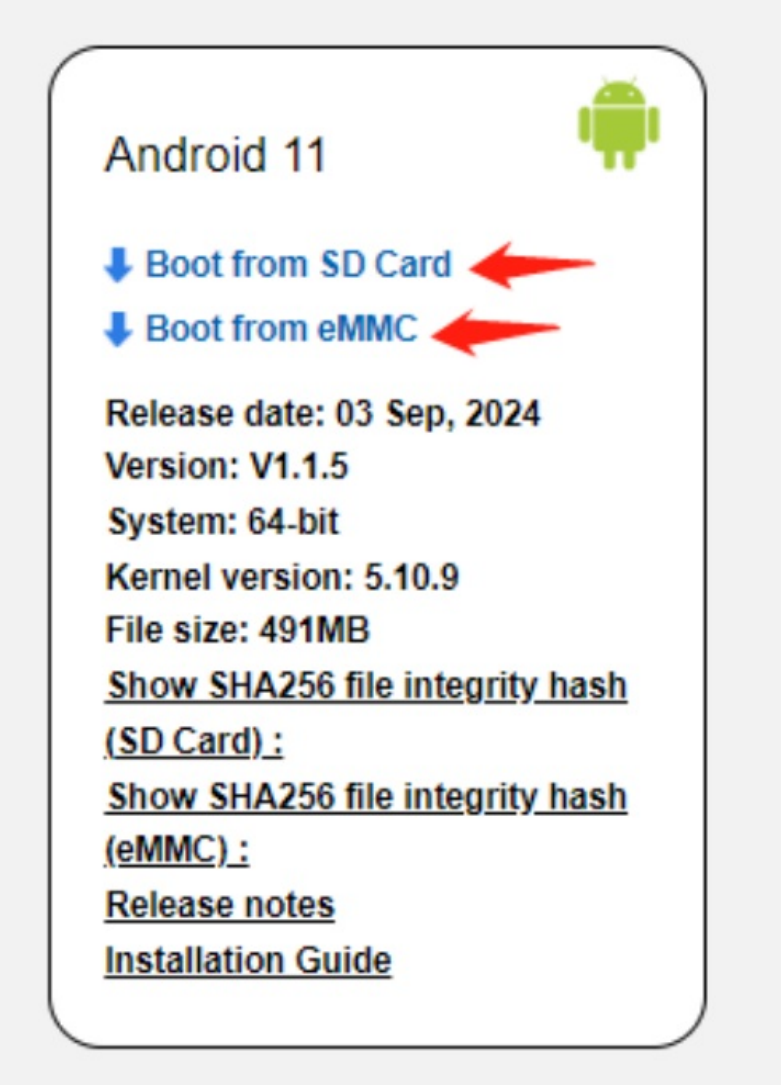
- **Show SHA256 file integrity hash (SD Card)**
- **Show SHA256 file integrity hash (eMMC)**
- **Release Notes**
- **Installation Guide**

FAQ

- **What is the purpose of the DIP switch?**
  The DIP switch is used to toggle between USB flash mode and eMMC boot mode.
- **How do I know if the flashing process is complete?**
  The word “DONE” will appear to indicate the completion of the flashing process.
- **Where can I download the firmware?**
  The firmware can be downloaded from the **DEBIX website**.

Android11 Flashing Guide

1. Prepare a PC (Windows 10 or Windows 11) and Type-C cable
2. Download the USB flash firmware (**https://debix.io/Software/downloadn.html**) and decompress it to any path



3. Run Windows PowerShell as administrator, go to the directory where the unzipped file is located, run the burning command, and wait for burning, as shown in the following figure
   Note The burn instruction needs to be selected according to the DDR and eMMC configuration.

Burn to Micro SD

2G ddr

- / uuu_imx_android_flash.bat -f imx8mp -a -e -t sd 4G ddr
- / uuu_imx_android_flash-4g.bat -f imx8mp -a -e -t sd 8G ddr
- / uuu_imx_android_flash-8g.bat -f imx8mp -a -e -t sd

32G sd card
2G ddr

- uuu_imx_android_flash.bat -f imx8mp -a -e -t sd -c 28 4G ddr
- / uuu_imx_android_flash-4g.bat -f imx8mp -a -e -t sd -c 28 8G ddr
- / uuu_imx_android_flash-8g.bat -f imx8mp -a -e -t sd -c 28

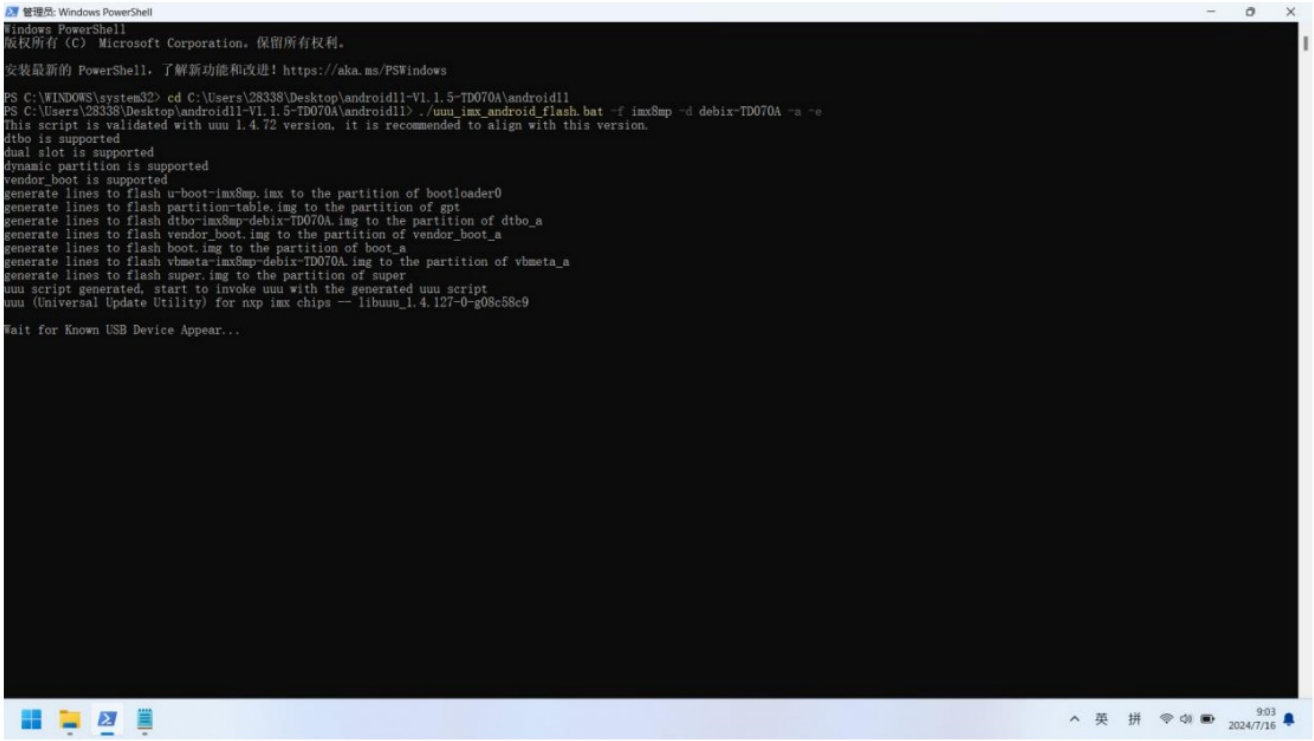
Burn to EMMC

- 2G ddr

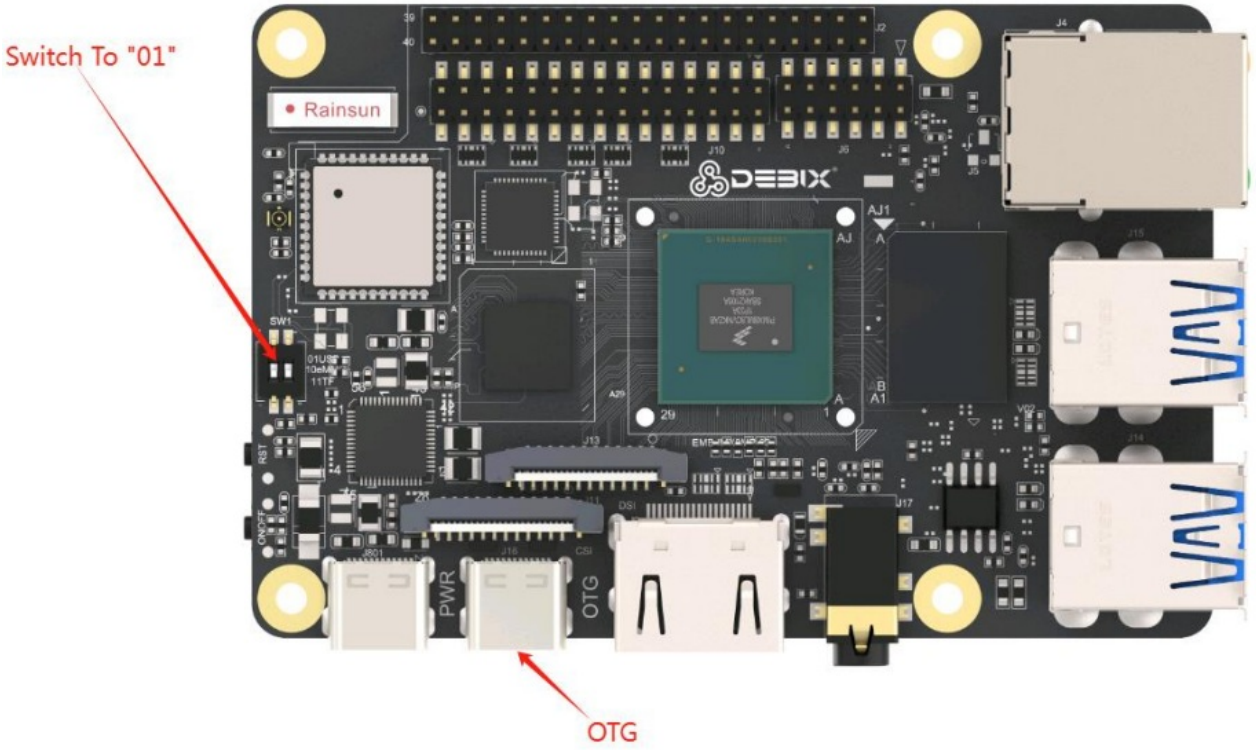
    - / uuu_imx_android_flash.bat -f imx8mp -a -e
- 4G ddr
    - / uuu_imx_android_flash-4g.bat -f imx8mp -a -e
- 8G ddr
    - / uuu_imx_android_flash-8g.bat -f imx8mp -a –e

If the eMMC capacity is 32GB:

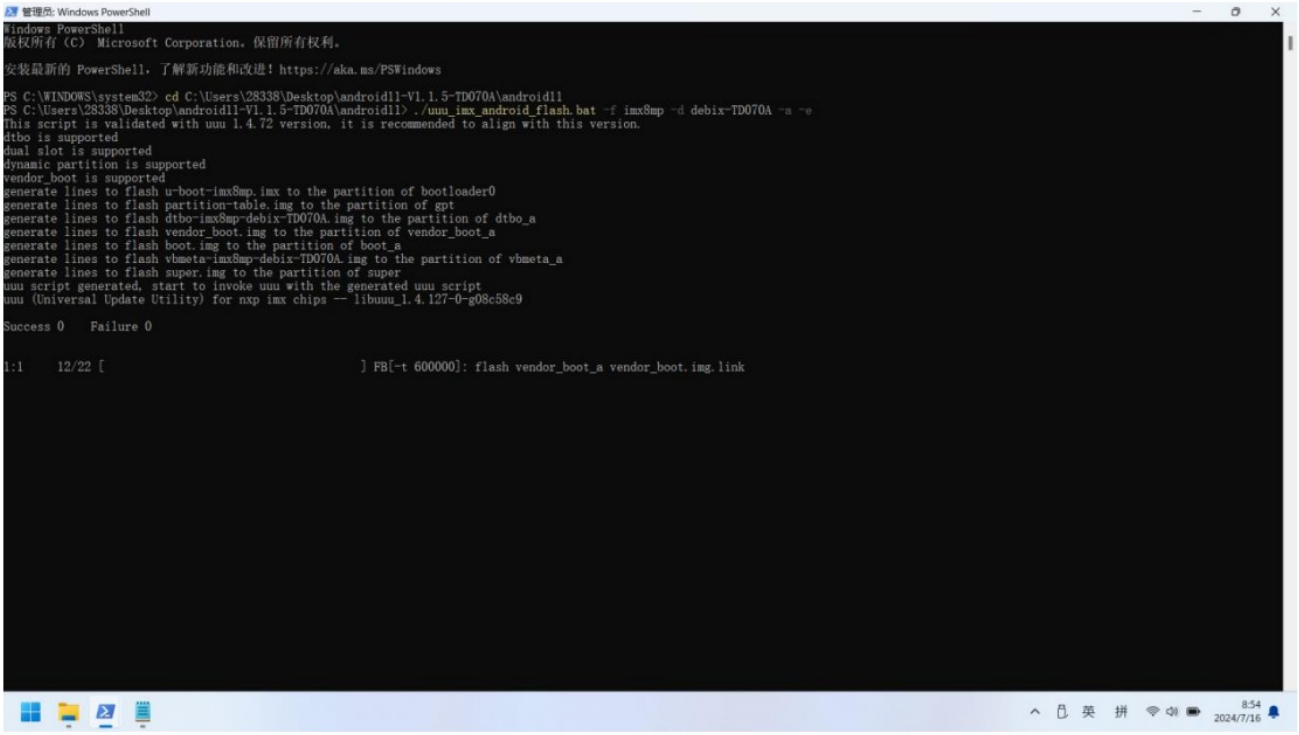
- **2G** ddr
    - / uuu_imx_android_flash.bat -f imx8mp -a -e -c 28
- **4G ddr**
    - / uuu_imx_android_flash-4g.bat -f imx8mp -a -e -c 28
- **8G ddr**
    - / uuu_imx_android_flash-8g.bat -f imx8mp -a -e -c 28
-



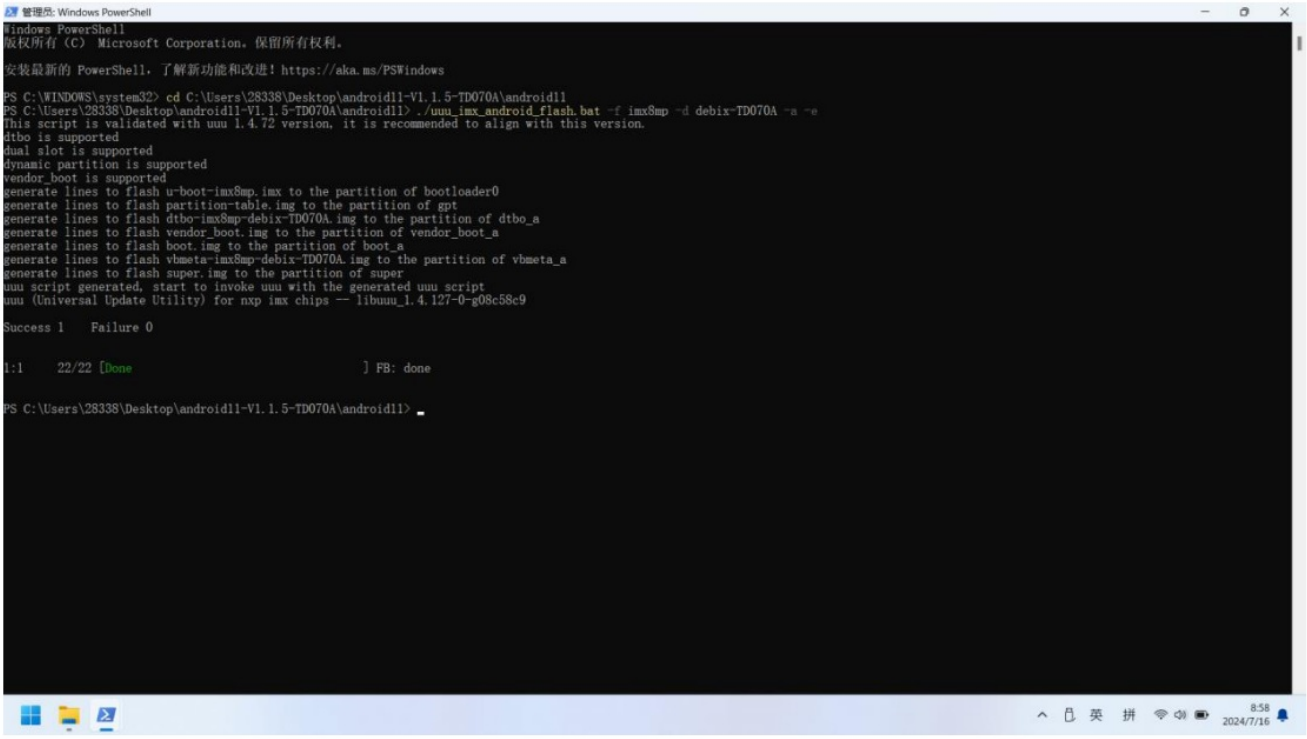
4 Connect the PC and the debix OTG interface with the Type-C cable, and switch the DIP switch to “01” (USB flash mode).



- 5 When Debix is powered on, a burning progress bar will appear, as shown below



- 6 Wait for the completion of burning, the word “DONE” can appear, as shown below



- 7 Switch the DIP switch to “10” (eMMC boot mode), and power on the mainboard.

www.debix.io

Documents / Resources

	DEBIX Android11 Industrial Single Board Computer [pdf] User Guide Android11 Industrial Single Board Computer, Android11, Industrial Single Board Computer, Single Board Computer, Board Computer, Computer

References

- User Manual