



Win10 IoT install guide (DEBIX SOM A +IO Board)

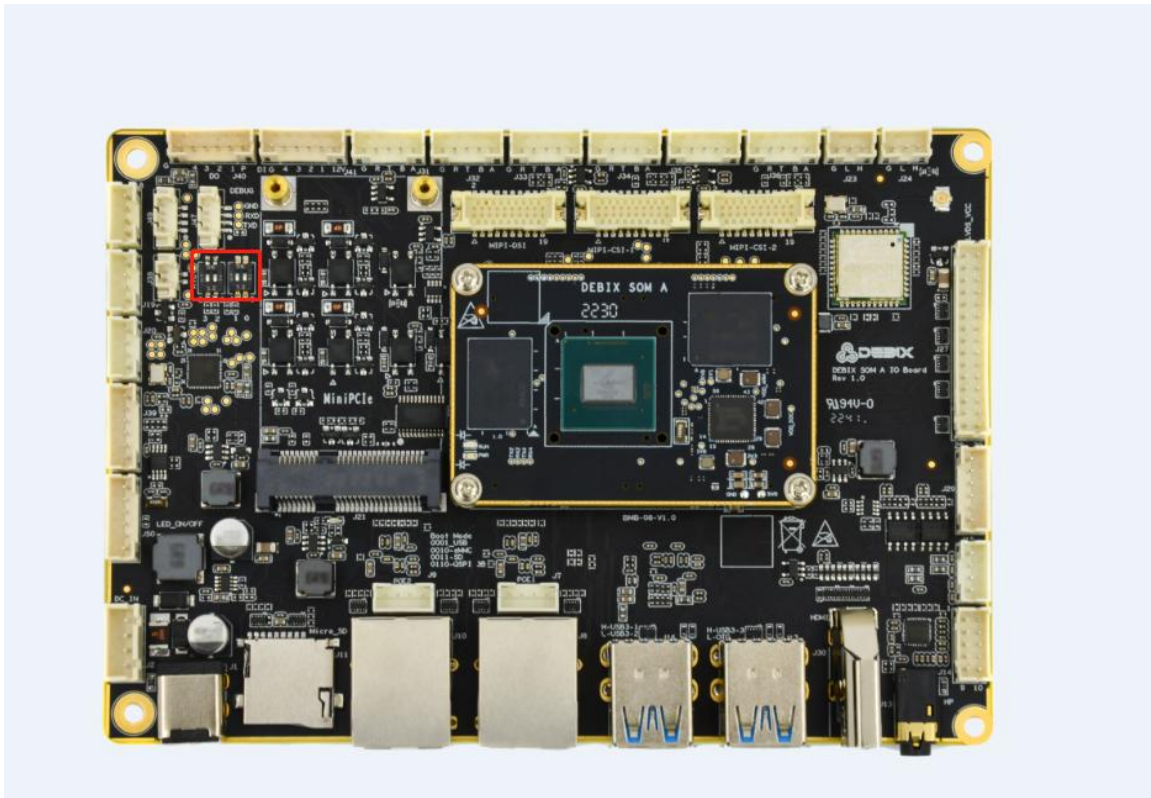
Download firmware

Prepare a win10(and up) PC to download the system package firmware.rar and win10_iot_20230228.img we provided.

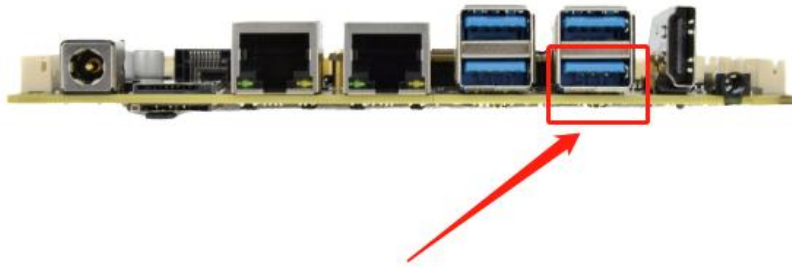
名称	修改日期	类型	大小
 firmware.rar	2023/3/2 9:43	WinRAR 压缩文件	1,675 KB
 win10_iot_20230228.img	2023/2/28 17:41	光盘映像文件	4,194,304...

Flash

1. Turn the DIP switch of the DEBIX SOM A IO Board to 0001 (USB mode), up is 1, down is 0.



2. Prepare a male to male USB cable to connect PC with USB-OTG port highlighted on the board below.



3. In win10 system, open in administrator mode WindowsPowerShell

- Enter the command to enter the firmware folder

```
cd E:\Desktop\NXP\i.MX8XX\i.MX8MP\DEBIX_Windows10-IoT\win10_IoT\firmware
```

```
Windows PowerShell
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安装最新的 PowerShell，了解新功能和改进！ https://aka.ms/PSWindows

PS C:\Users\wange> cd E:\NXP\i.MX8XX\i.MX8MP\Debix\Debix_Windows10-IOT\win10_Iot\firmware
PS E:\NXP\i.MX8XX\i.MX8MP\Debix\Debix_Windows10-IOT\win10_Iot\firmware> ./Flash_bootloader.cmd /device MX8M_PLUS_EVK /secure 0
```

- Enter flash command:

```
./flash_bootloader.cmd /device MX8M_PLUS_EVK /secure 0
```

You can start burning.

```
管理员: Windows PowerShell
Windows PowerShell
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PS C:\Users\wange> cd E:\NXP\i.MX8XX\i.MX8MP\Debix\Debix_Windows10-IOT\win10_Iot\firmware
PS E:\NXP\i.MX8XX\i.MX8MP\Debix\Debix_Windows10-IOT\win10_Iot\firmware> ./flash_bootloader.cmd /device MX8M_PLUS_EVK /secure 0
Selected: firmware_uuu.bin

Device:      MX8M_PLUS_EVK
Firmware:    MX8M_PLUS_EVK\firmware_uuu.bin

Temporary firmware with UUU tool: MX8M_PLUS_EVK\firmware_uuu.bin
2:21  MX865 SDPS: 0x1FC9 0x0146 0x0002
Device in serial download mode, start flash

uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.3.191-0-g4fe24b9

Success 1  Failure 0

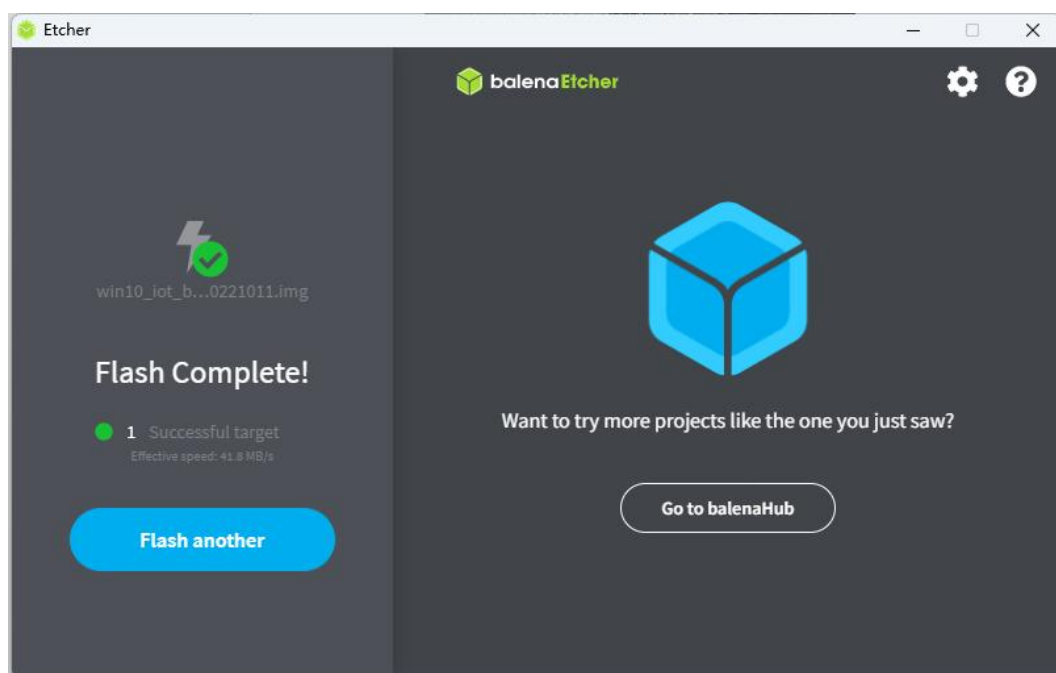
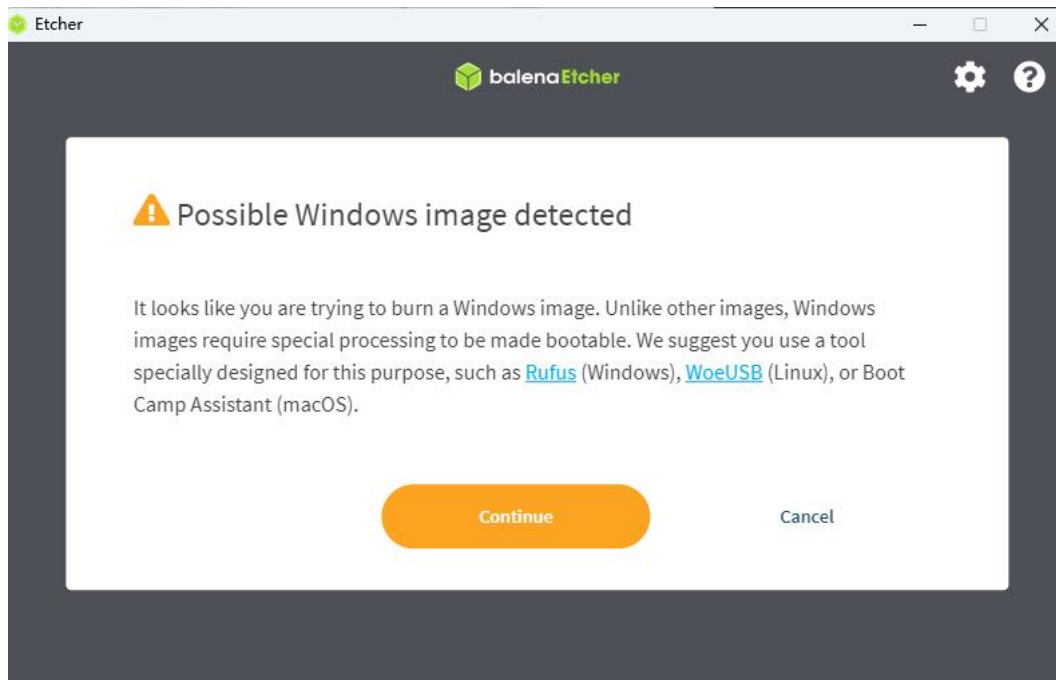
2:21  7/ 7 [Done] ] FB: Done

请按任意键继续. . .
```

4. Etcher download link: <https://www.balena.io/etcher/>

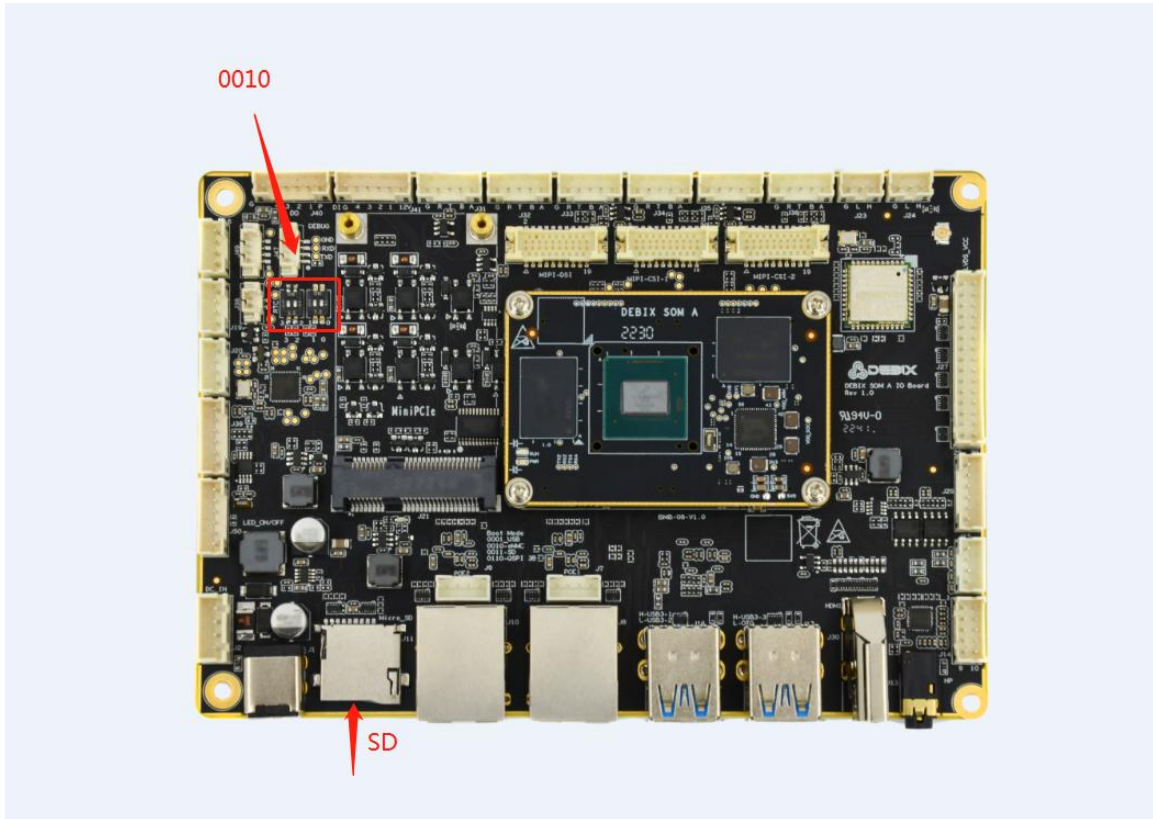
- Start Etcher, insert the Micro SD Card, select the img file to be installed and the disk partition corresponding to the Micro SD Card. The minimum capacity requirement of the Micro SD Card is 16G.
- If there is a prompt as shown in the figure below, click **continue**, then click **flash**, and

wait for the burning to end.



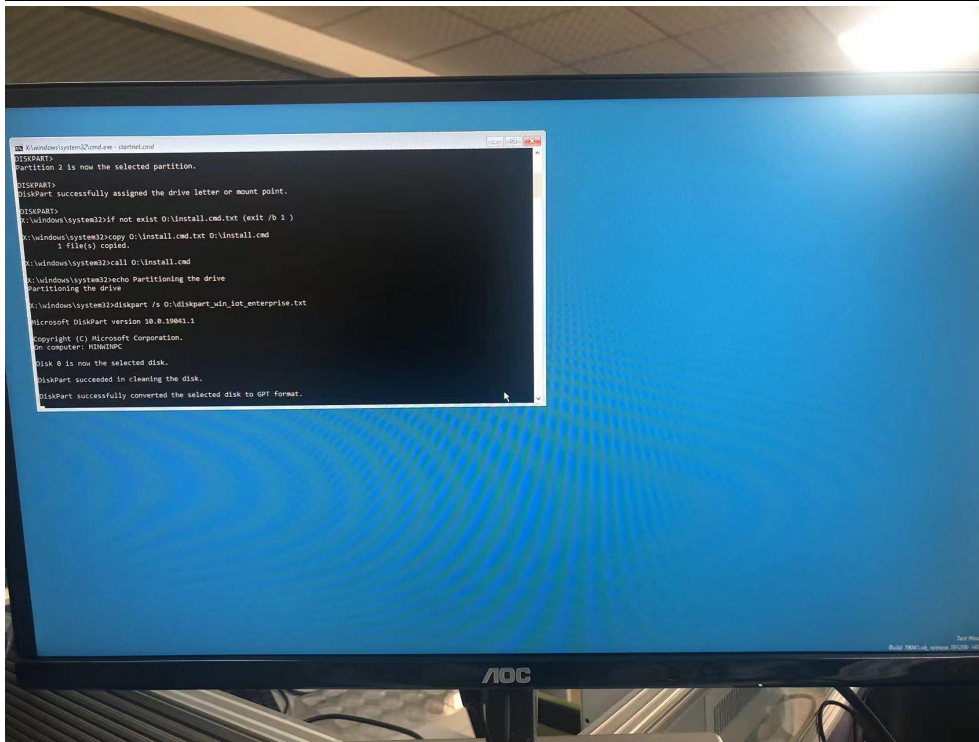
- When prompt **Flash Complete!** It means that the system has been successfully burned into the Micro SD Card.

4. Make sure the motherboard is powered off, set the DIP switch to 0010 (**eMMC mode**), and insert the Micro SD Card.

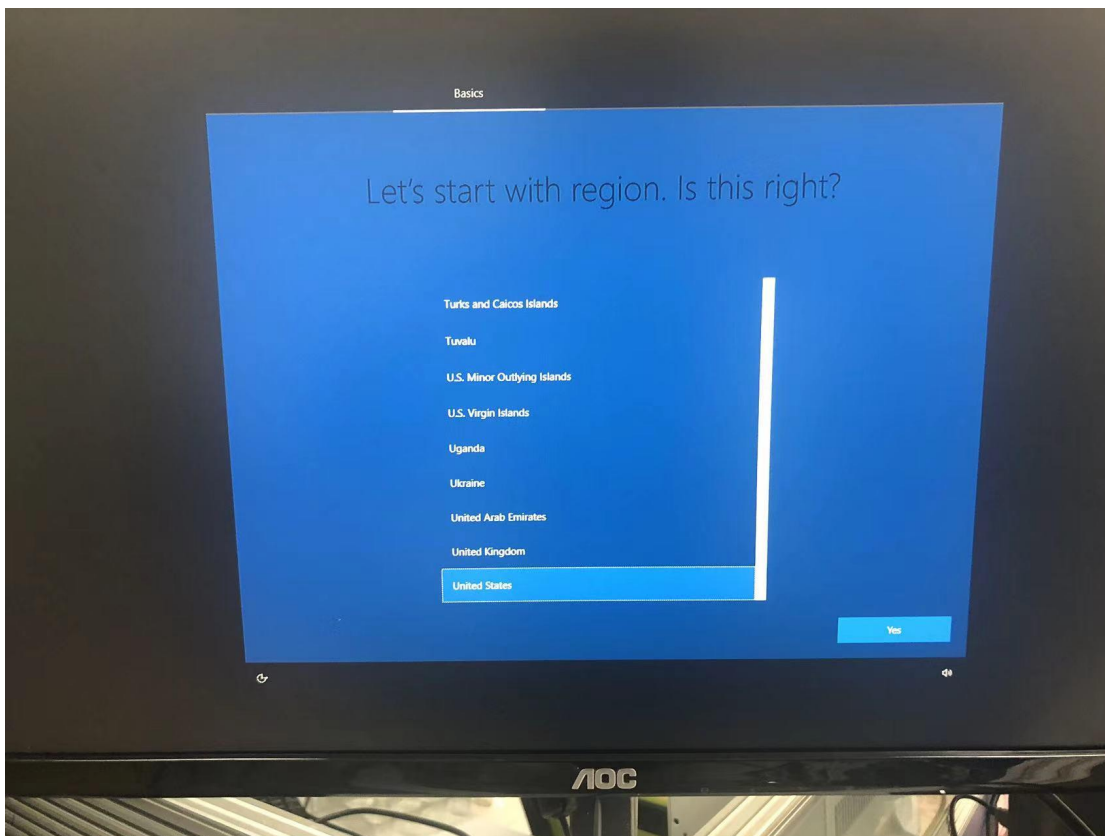


5. Connect the power supply and wait for the system to be installed automatically. Do not cut off the power during the installation process.

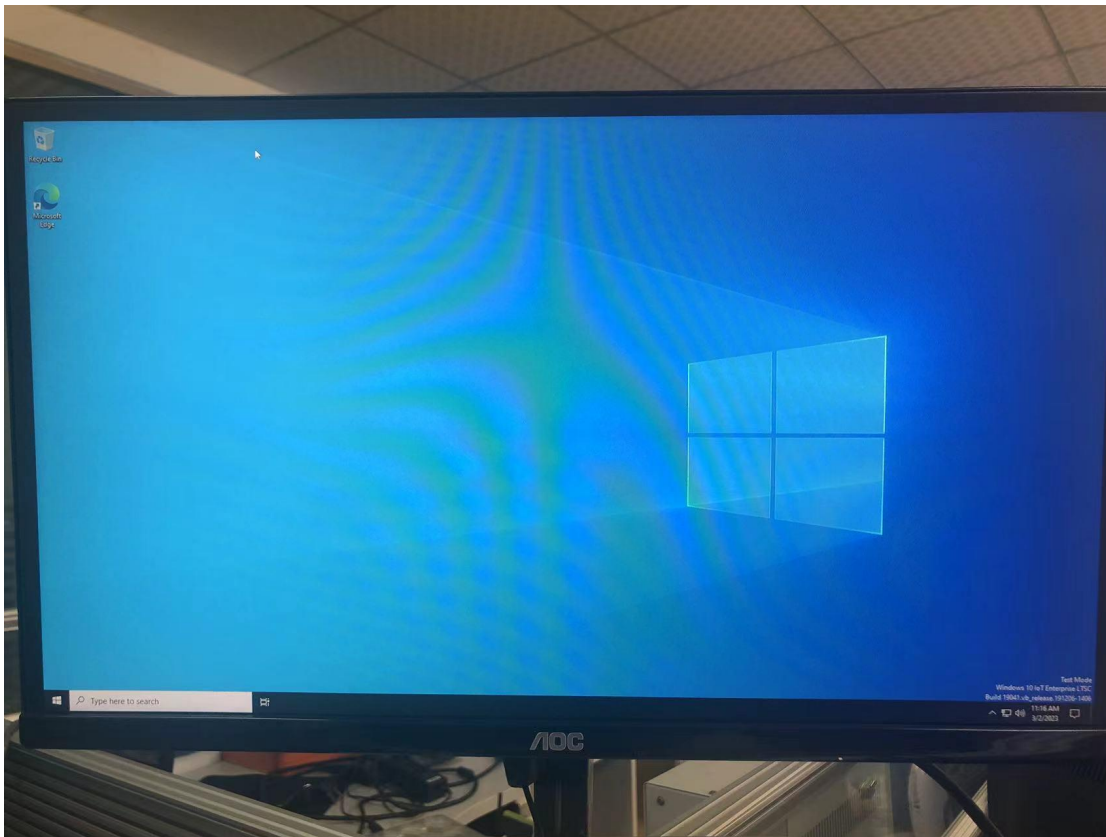




6. After the automatic installation of the system is completed, DEBIX will automatically restart and enter the WindowsToGo page. After setting the settings according to your region and other conditions, you can use it after the system is loaded.



7. After the system is loaded, it can be used as normal. The desktop we see below is the familiar Windows 10 interface.



Interface functions list

Currently, Windows 10 IoT Enterprise has added partial support to the interface functions of DEBIX SOM A IO Board.

The features supported by NXP are as follows:

Function	Description
OS	Windows 10 IoT Enterprise LTSC 21H2
HDMI	1 x HDMI (resolution 1920 x 1080)
LVDS	1 x LVDS (resolution 1280 x 800)
Audio	Support left and right speakers SPK
USB	<ul style="list-style-type: none"> ● 4x USB3.0 Host Type-A ● 3x USB2.0
Ethernet	2 x Gigabit Ethernet
Storage	Micro SD Card
Other	SPI/GPIO/I2C/CAN/PWM/UART