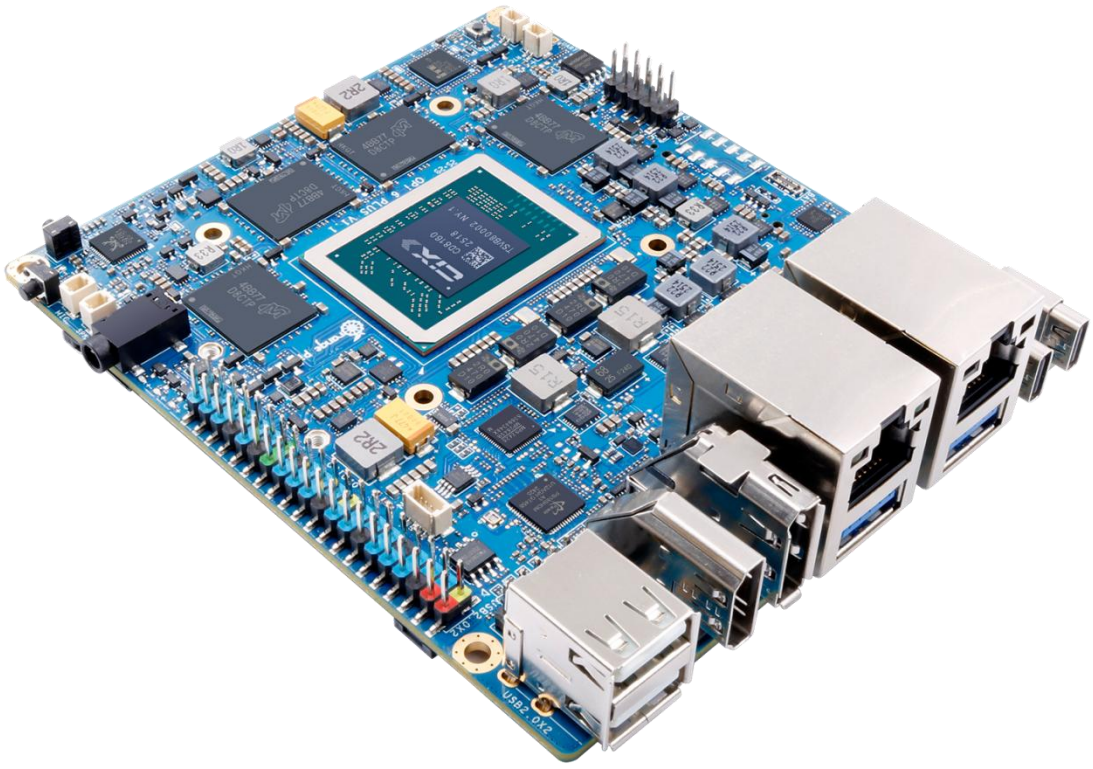
OrangePi 6 Plus
Windows11-Arm64 User Manual



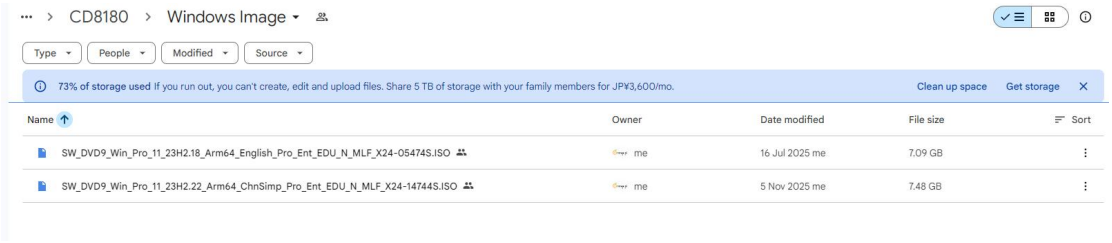
Catalogue

1. Install Windows 11-Arm64 system

1.1. Download the Windows 11-Arm64-23h2 system image

A.Mirror reference URL:https://drive.google.com/drive/folders/1uStXui0XitK0o74LgZrS9XEusy_n3TxF?usp=sharing

After opening the mirror hyperlink, as shown below：



B.Download the Windows 11-Arm64-23h2 system image.

Please note: The current image only supports learning and verification.

1.2. Create a Windows 11 system boot disk

1）Preparation of required tools and their contents

You need a USB flash drive with a capacity of more than 16G, a system image of Windows11-Arm64-23h2 version, and a PCIe NVME type SSD hard drive.

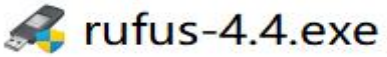
2）Download Rufus

Official website link：Orange Pi 6 Plus – Orange Pi Official Website – Orange Pi development board, open source hardware, open source software, open source chips, computer keyboard.

Rufus tool download: Open the official website link and download the Windows 11 system boot disk creation tool under the official tool.

3）Create a boot disk

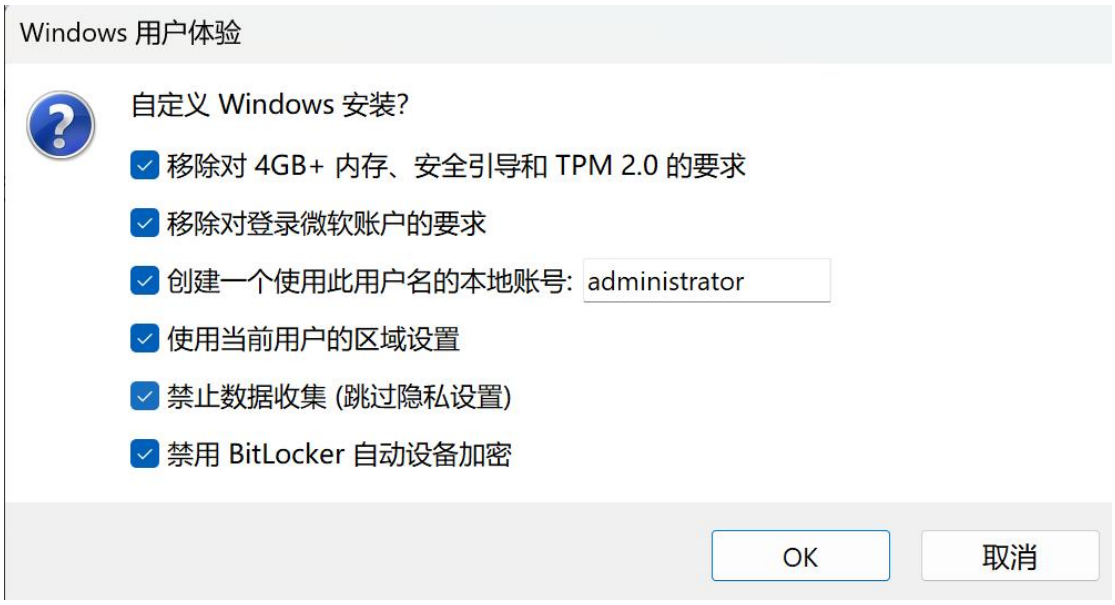
A.Insert the USB drive into the work machine and double-click to execute the rufus-4.4.exe tool.



B.Open the Rufus tool, the interface is as shown below：

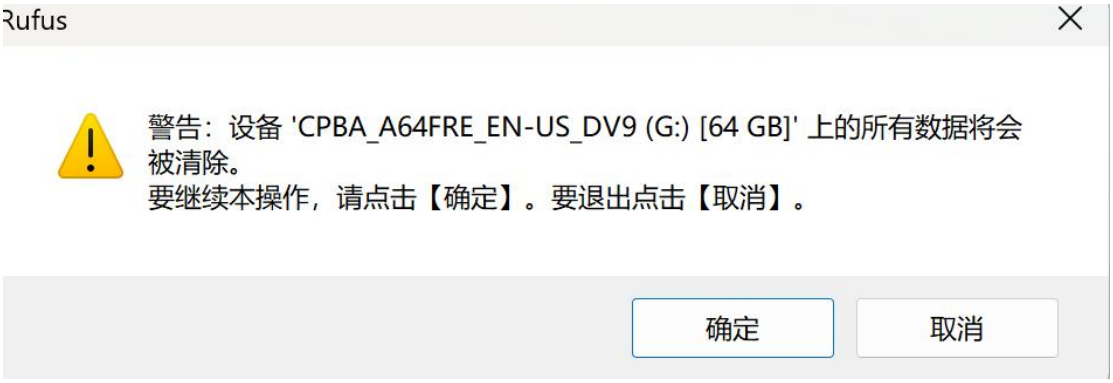
C.As shown in the figure below, select the Windows 11 image file to load and click Start.

D.Check the parameters as shown in the figure below and click OK.

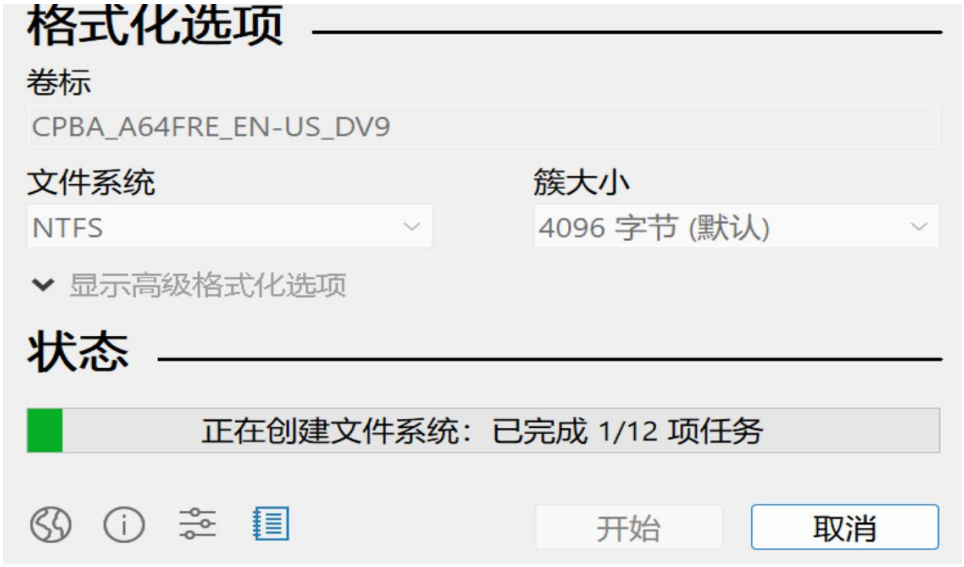


Note: If the USB drive contains important data, you need to back it up in advance.

Click OK.



E.Start creating the boot disk.

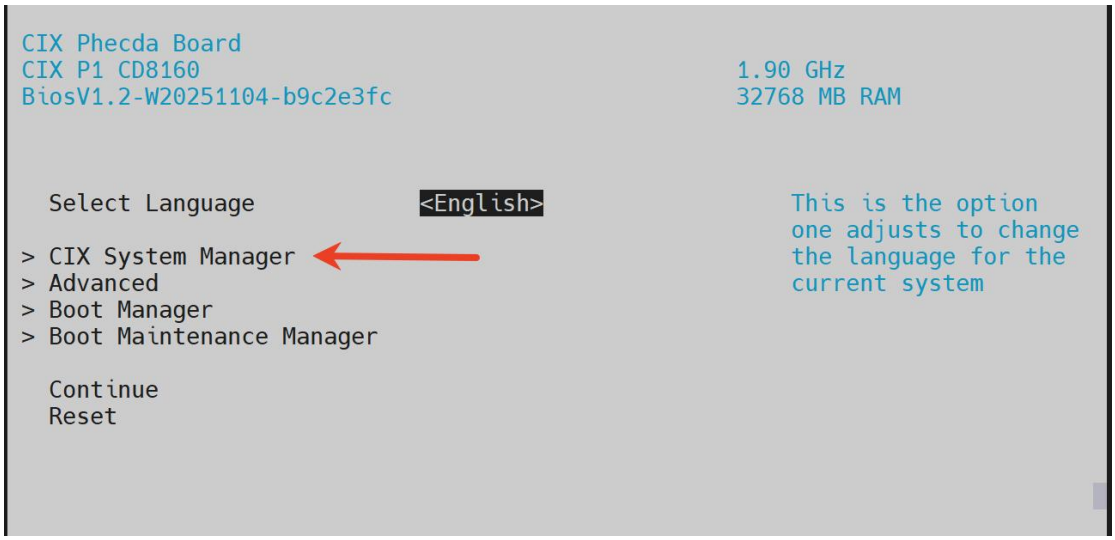


The completed production is shown in the figure below：

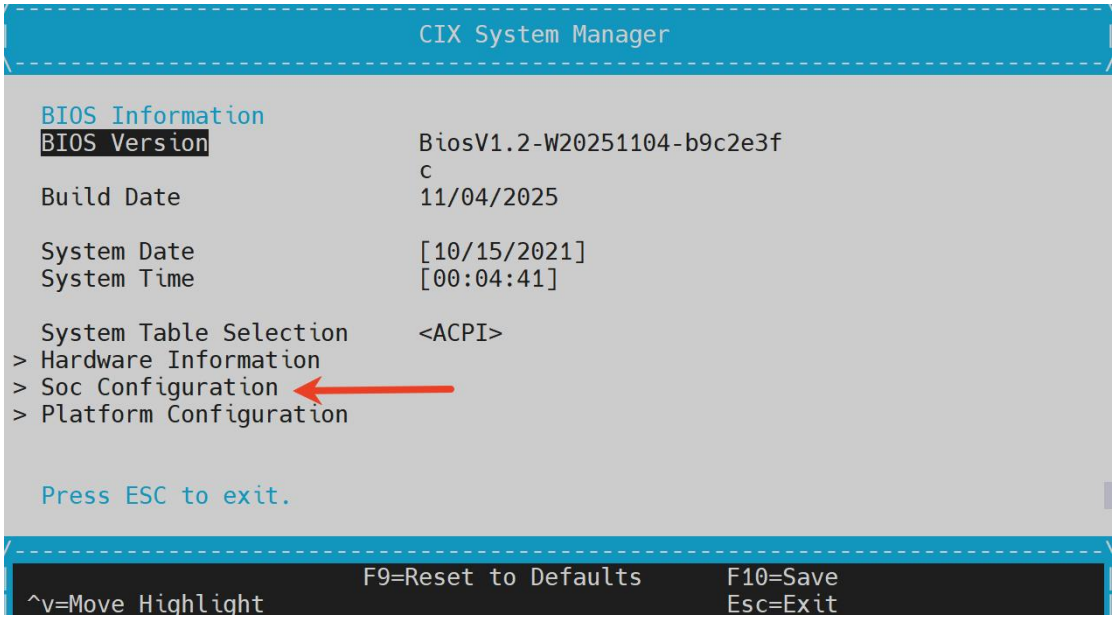
1.3. BIOS Options for Windows 11-Arm64 System

1）Enter Windows 11-Arm64-23h2 system

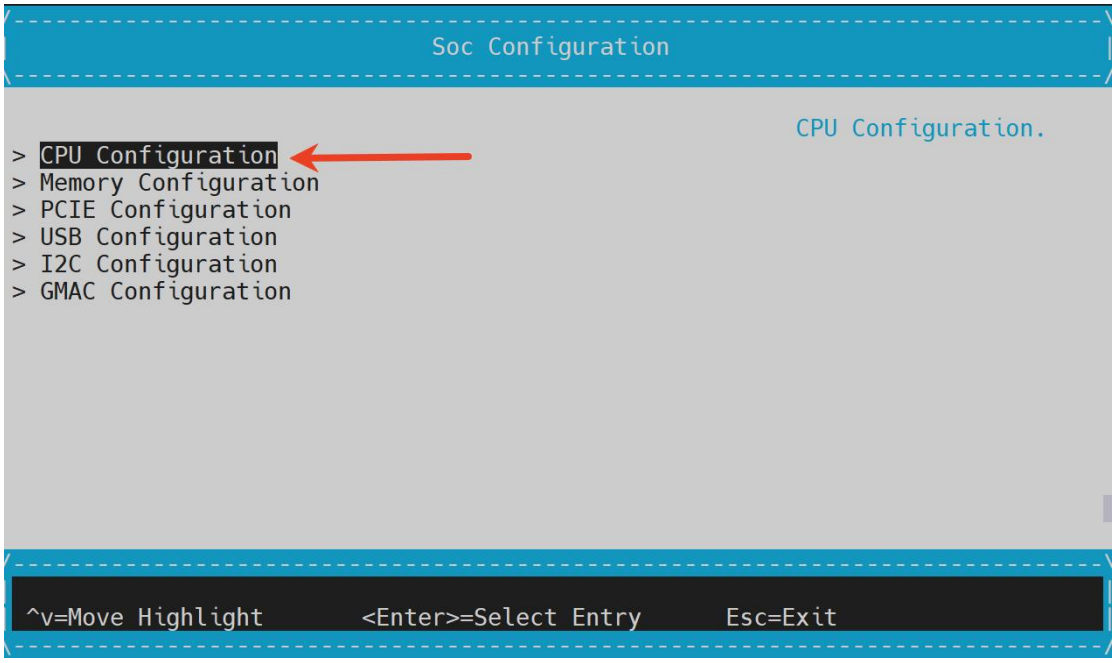
Power on the development board and press the F2 shortcut key to enter BIOS, then click CIX System Manage.



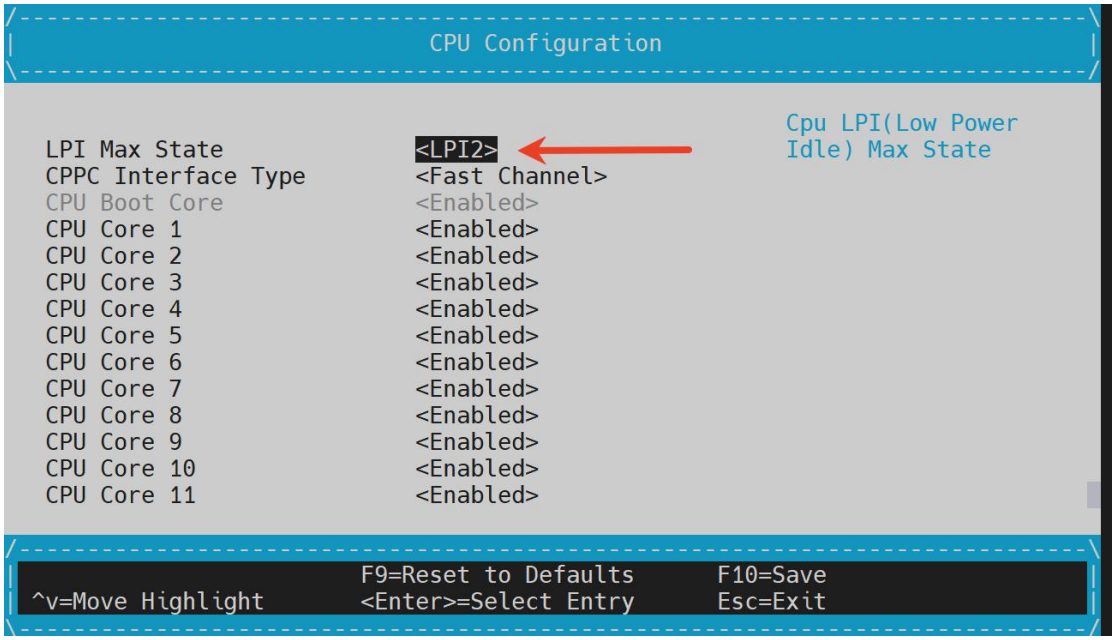
Click on the Soc Configuration title



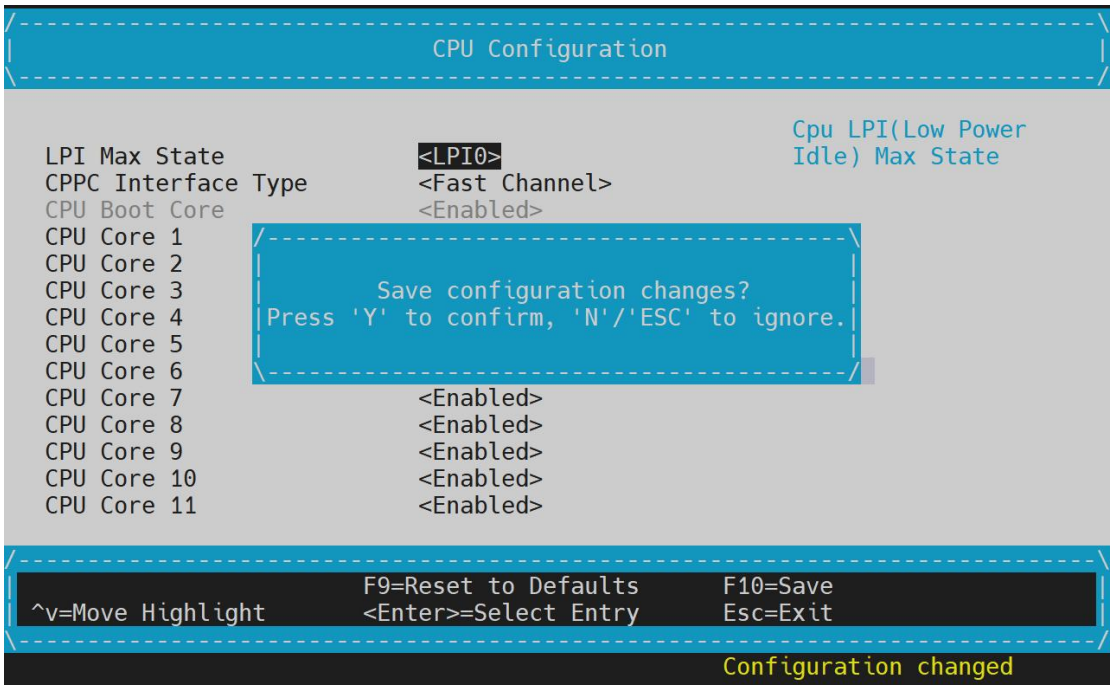
Click on the CPU Configuration title



Find the LPI Max STate option as follows:

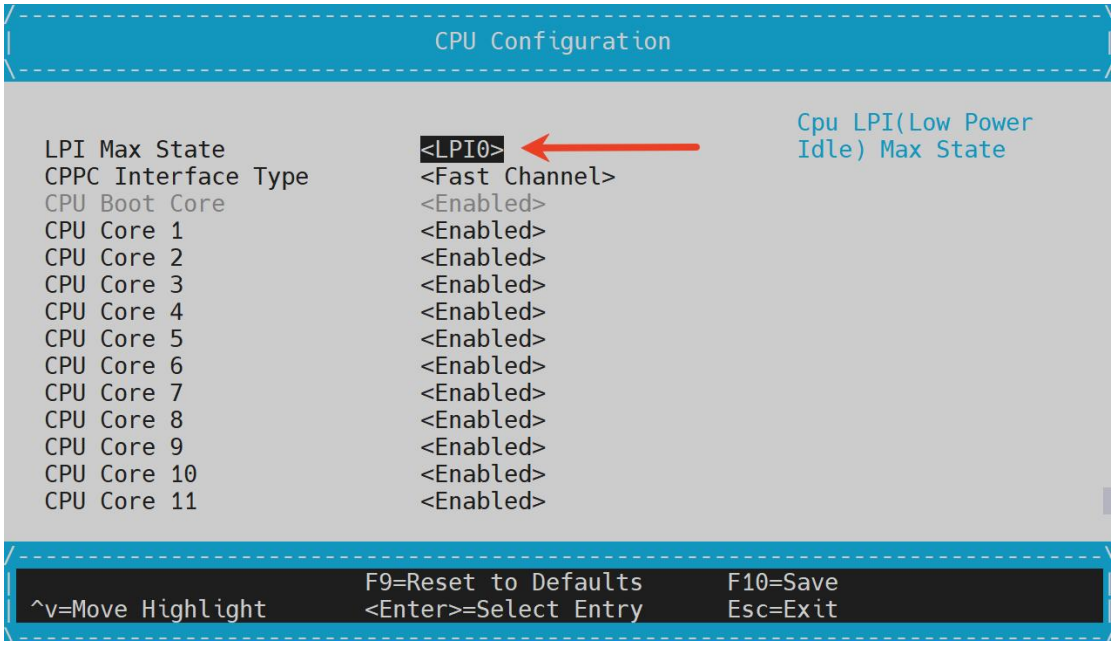


After changing the LPI Max STate option from LPI2 to LPI0, press the shortcut key F10 to save as shown in the following figure, and click Y to confirm.



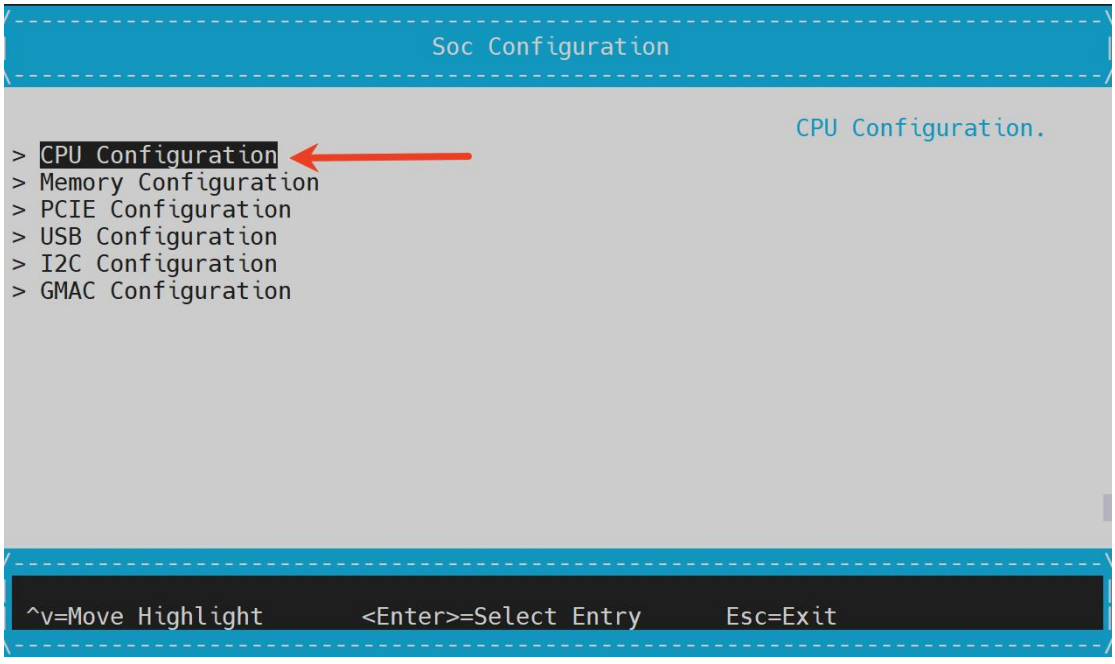
Restart the board and enter the BIOS interface again as shown below. The LPI Max STate option has been changed to LPI0, and you can then install or enter the Windows11-Arm64 **system**.

Note: After changing the LPI Max STate option, it is only valid when the power adapter is connected. After power failure, the LPI Max STate option needs to be reset; Alternatively, connecting the RTC battery can save the modified option data.



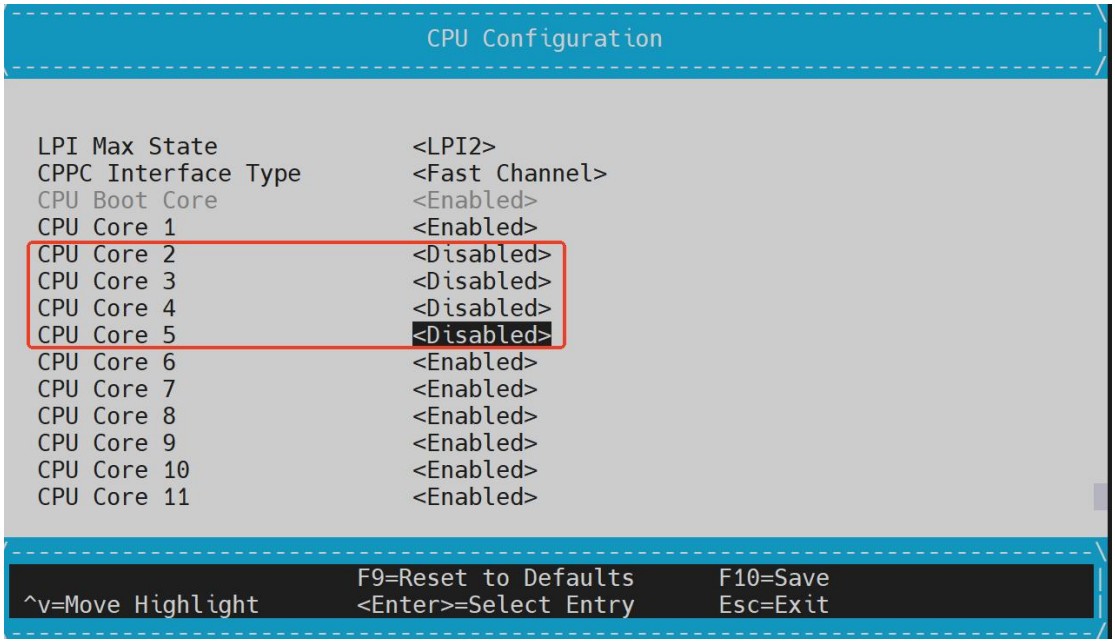
2）Enter Windows 11-Arm64-24h2 \ 25h2 system

Click on the CPU Configuration title



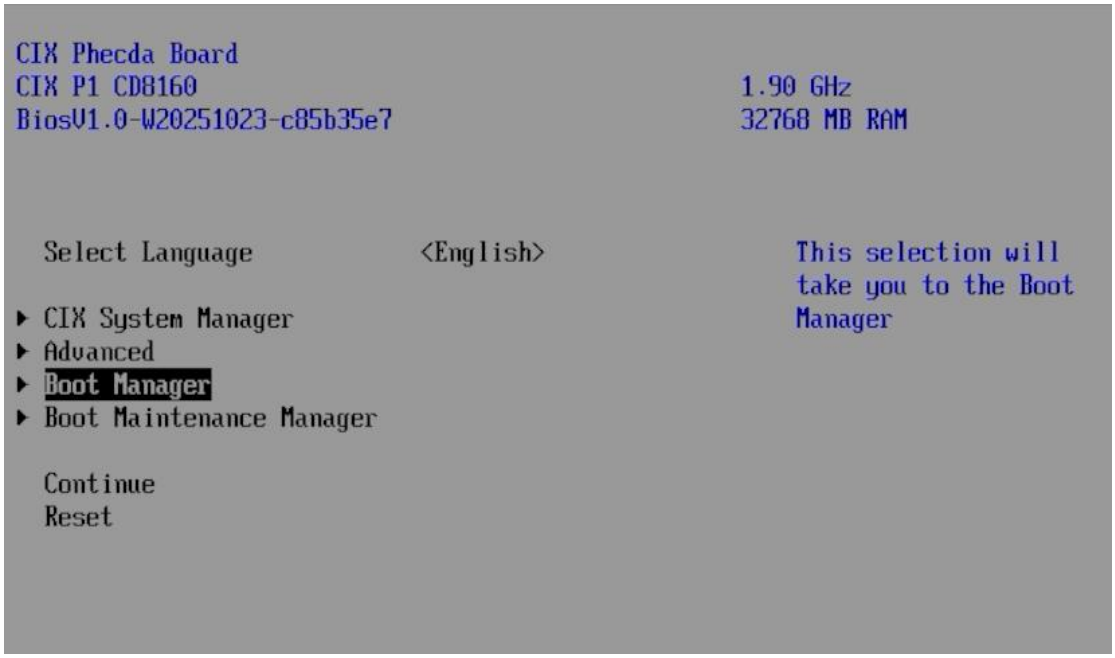
Change the options for CPU Core 2, CPU Core 3, CPU Core 4, and CPU Core 5 from Enabled to Disabled.

Press the F10 shortcut key and restart the development board.

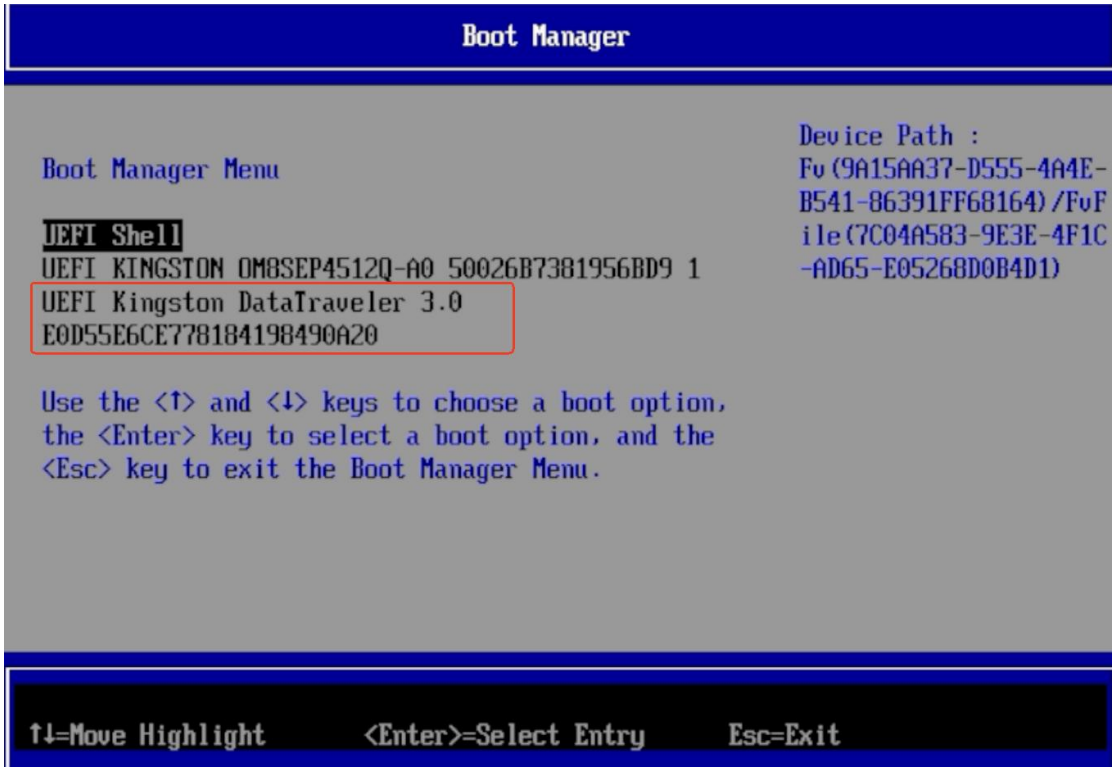


1.4. Install Windows 11-Arm64 system

A.Power on the development board, press the F2 shortcut key to enter the BIOS, and select the "Boot Manage" interface.

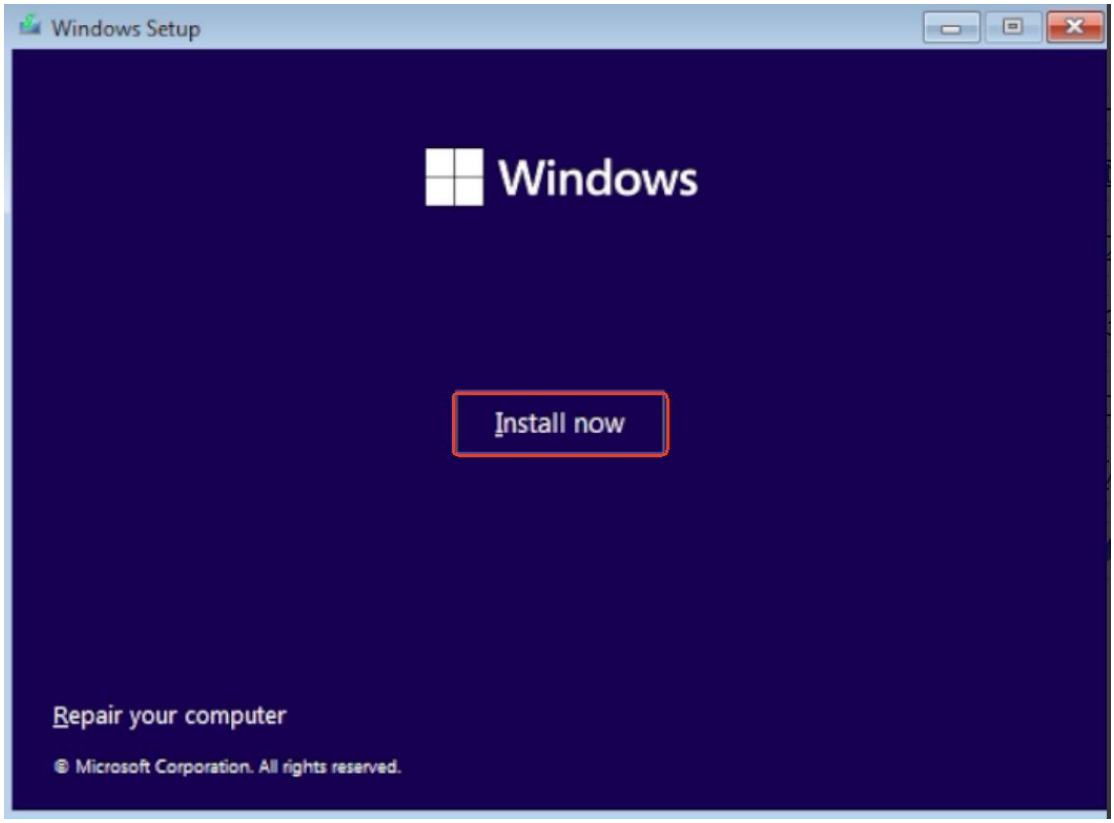


Click the USB boot item in the picture to start the Windows 11 installation program.

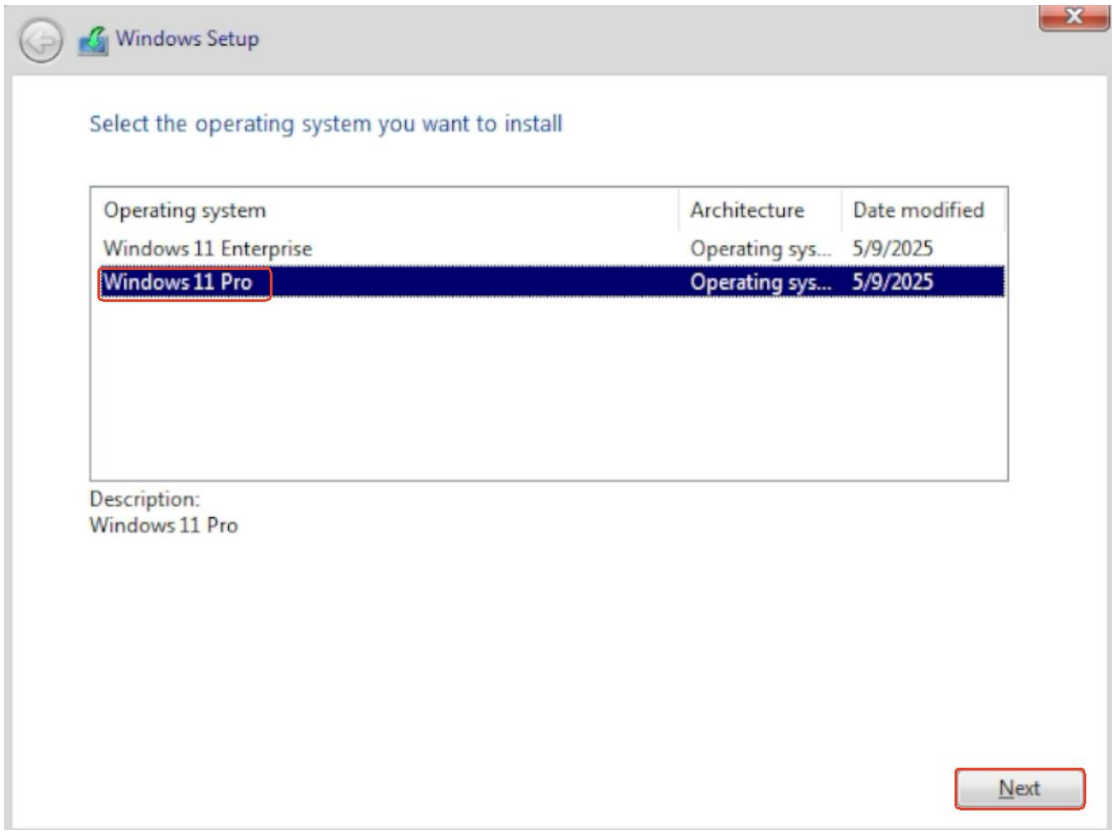


B.Start booting the Windows 11 installation program, wait for the following interface to enter, and click Next.

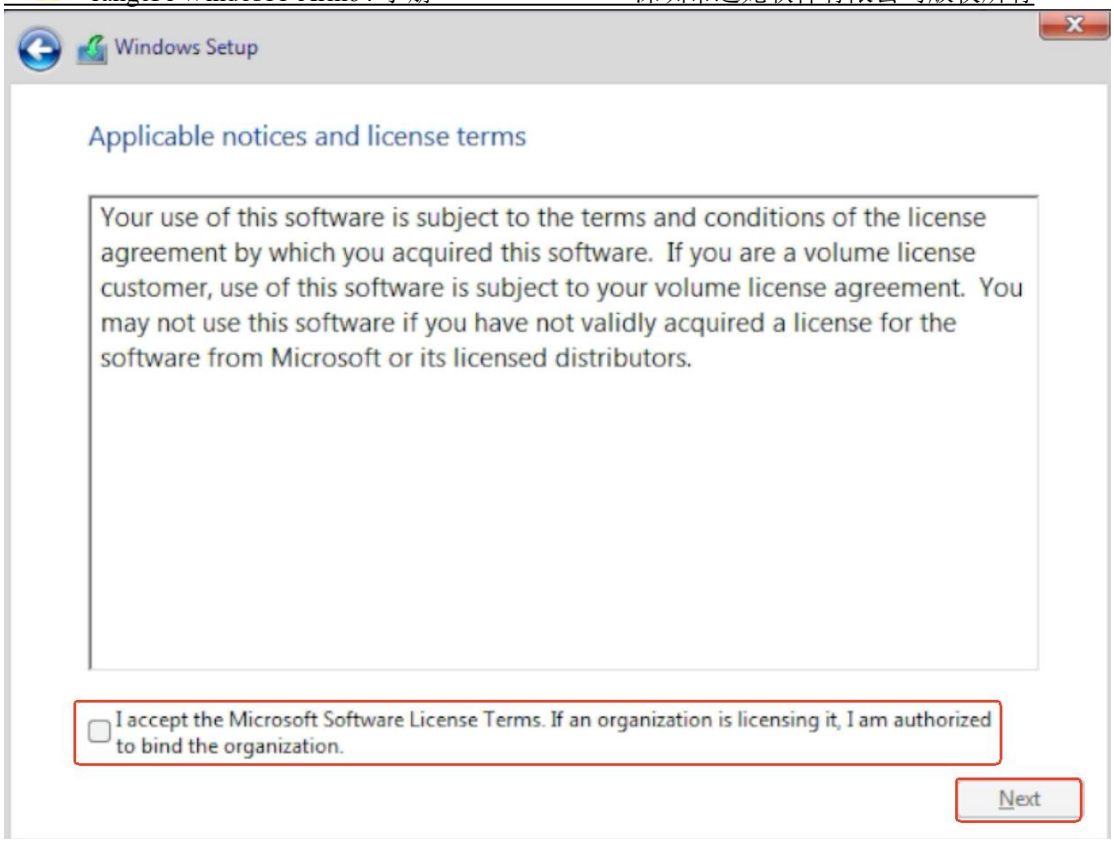
C.Click Install now to start loading.



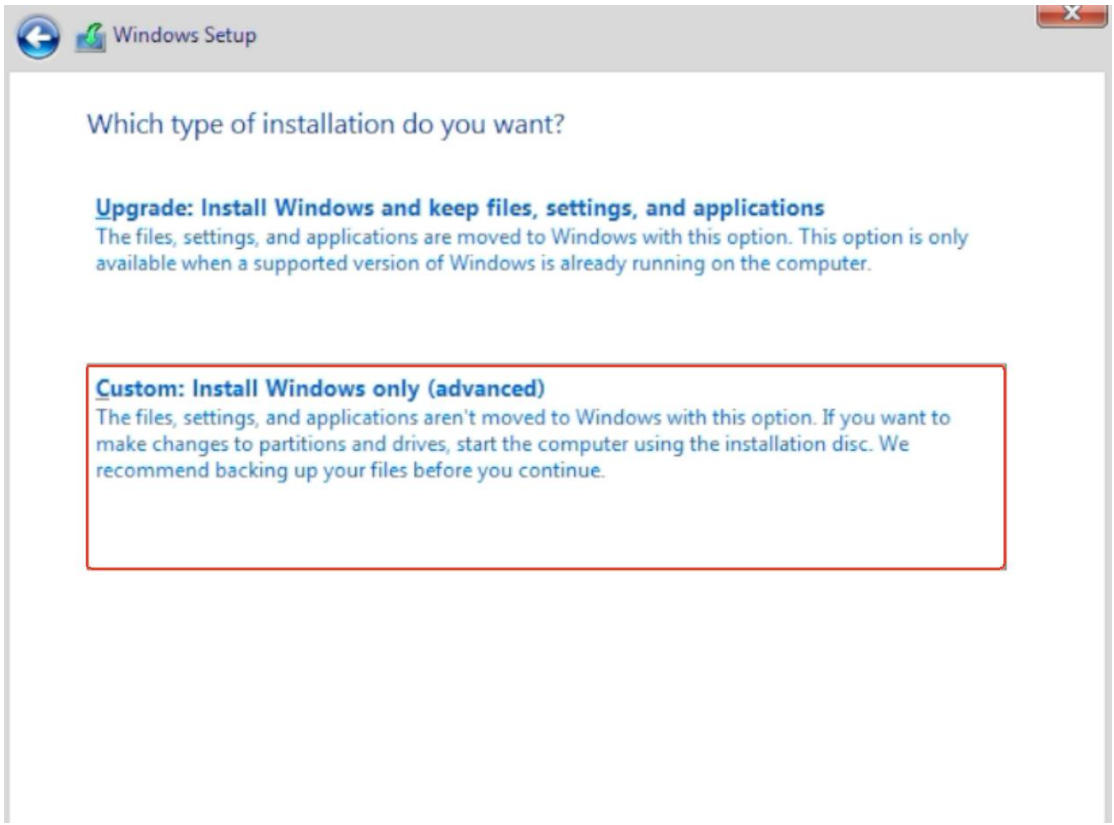
Select Windows 11 Pro and click Next.



Check the box to agree and click Next.

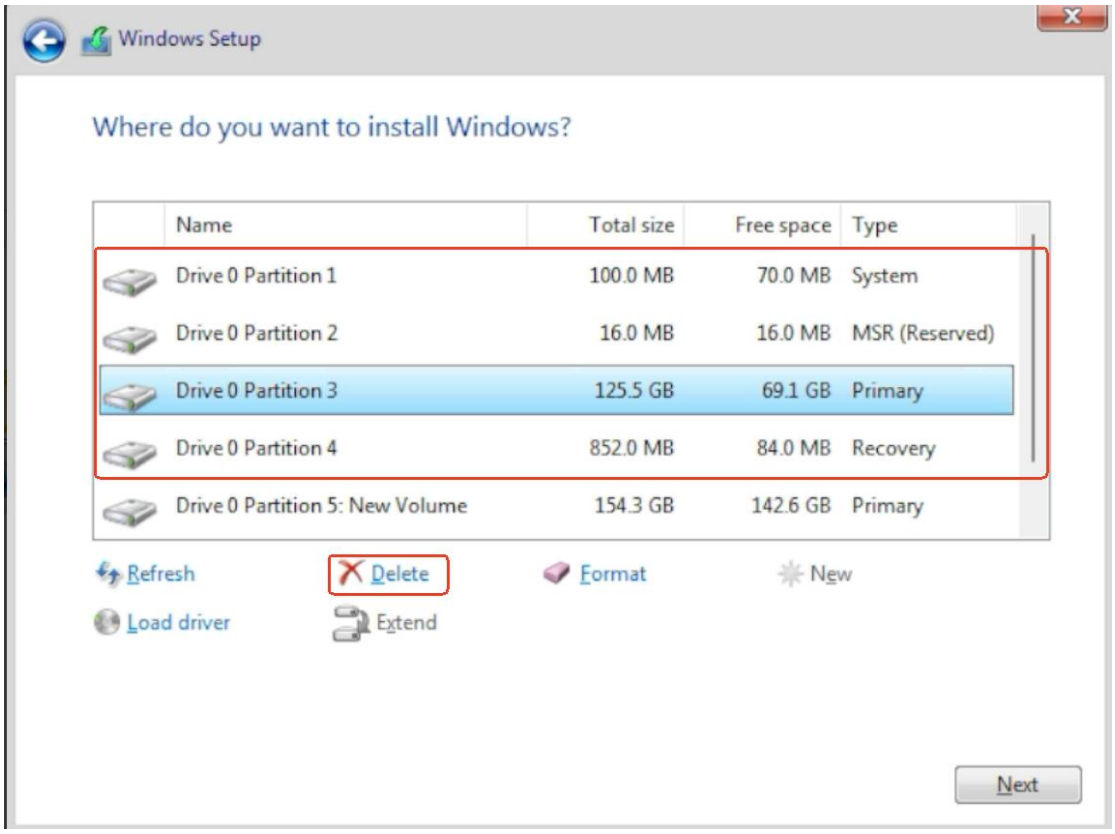


D.Click Custom: Install Windows only (advanced).

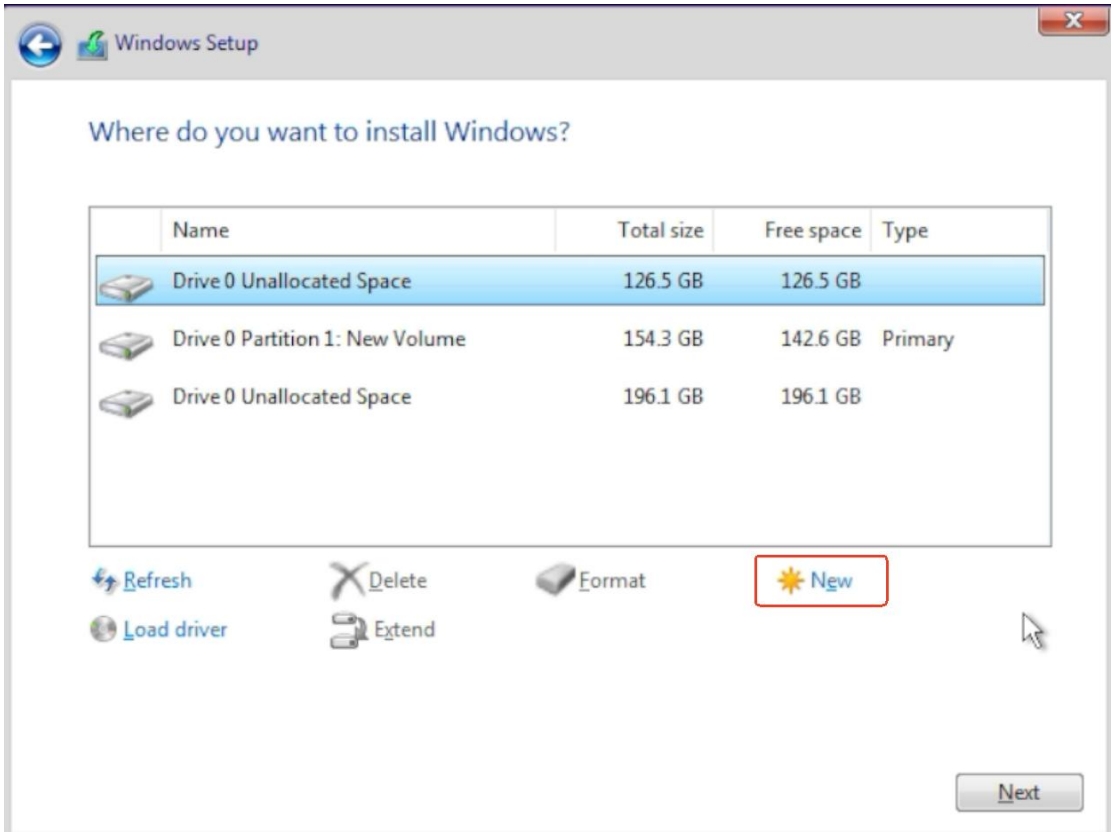


E.To delete existing system data on the hard disk, select the hard disk partitions in

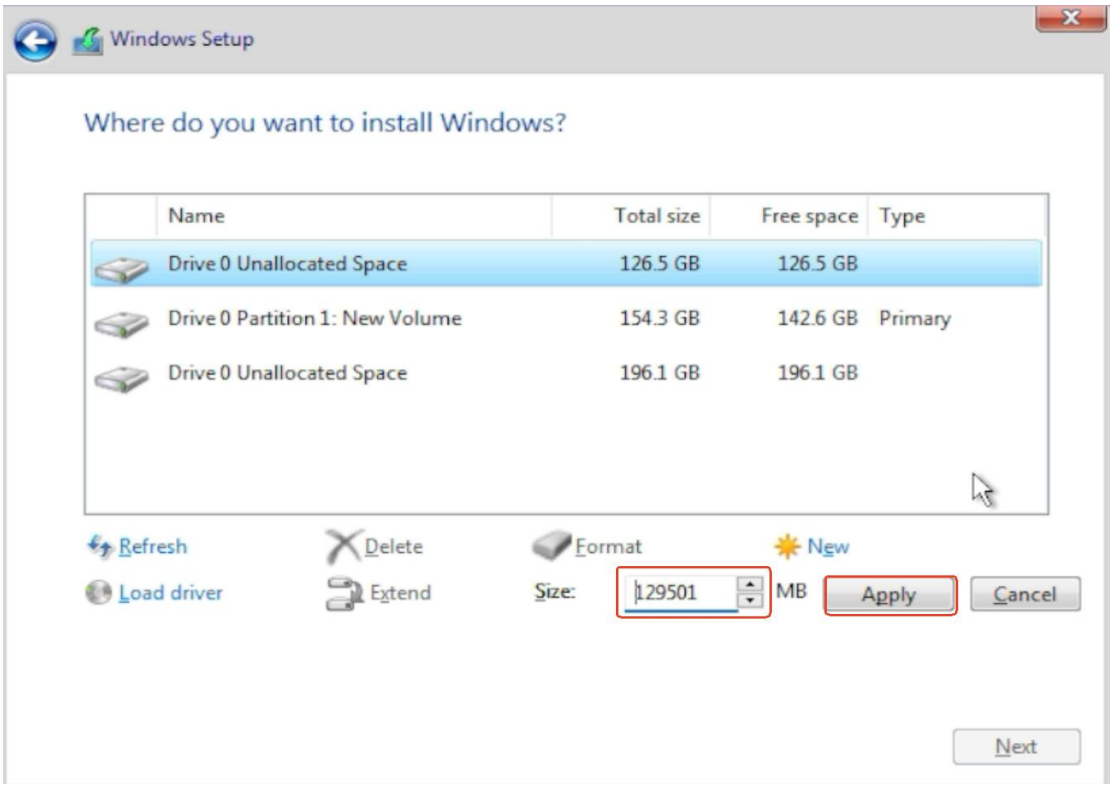
the figure below and click Delete.



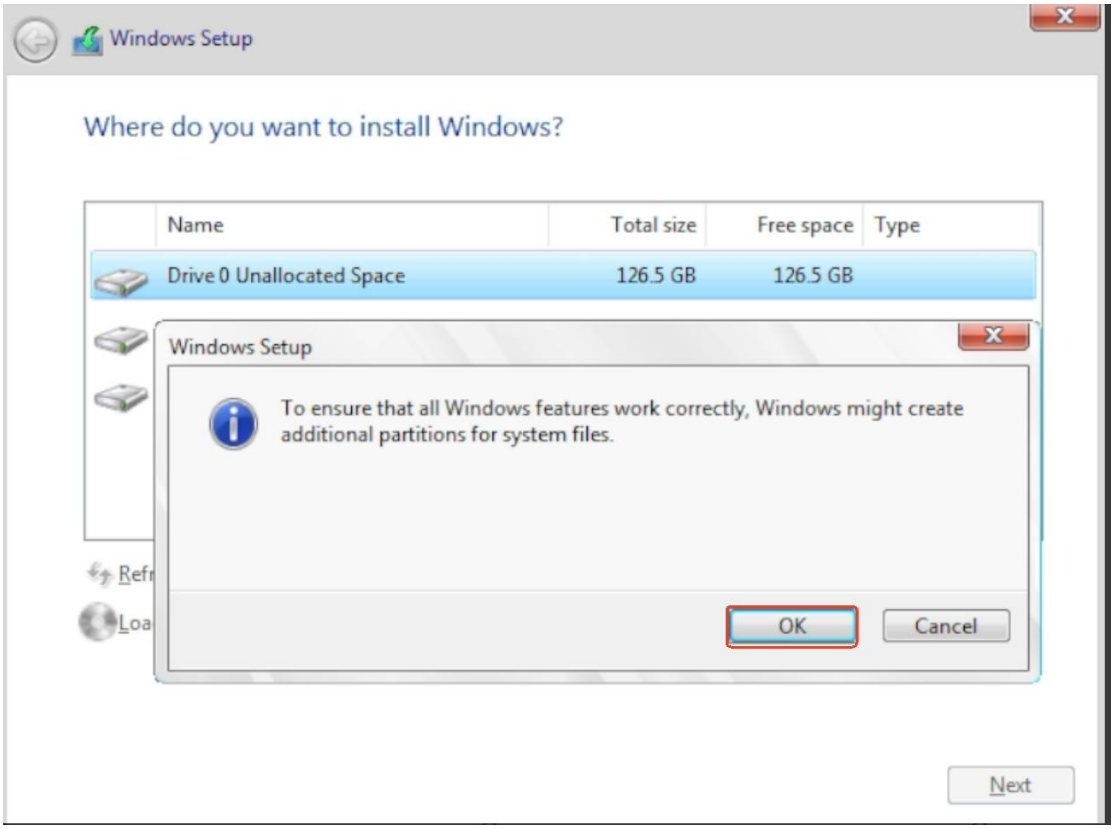
After deleting the existing system data, click New to create a new partition, as shown in the figure below.



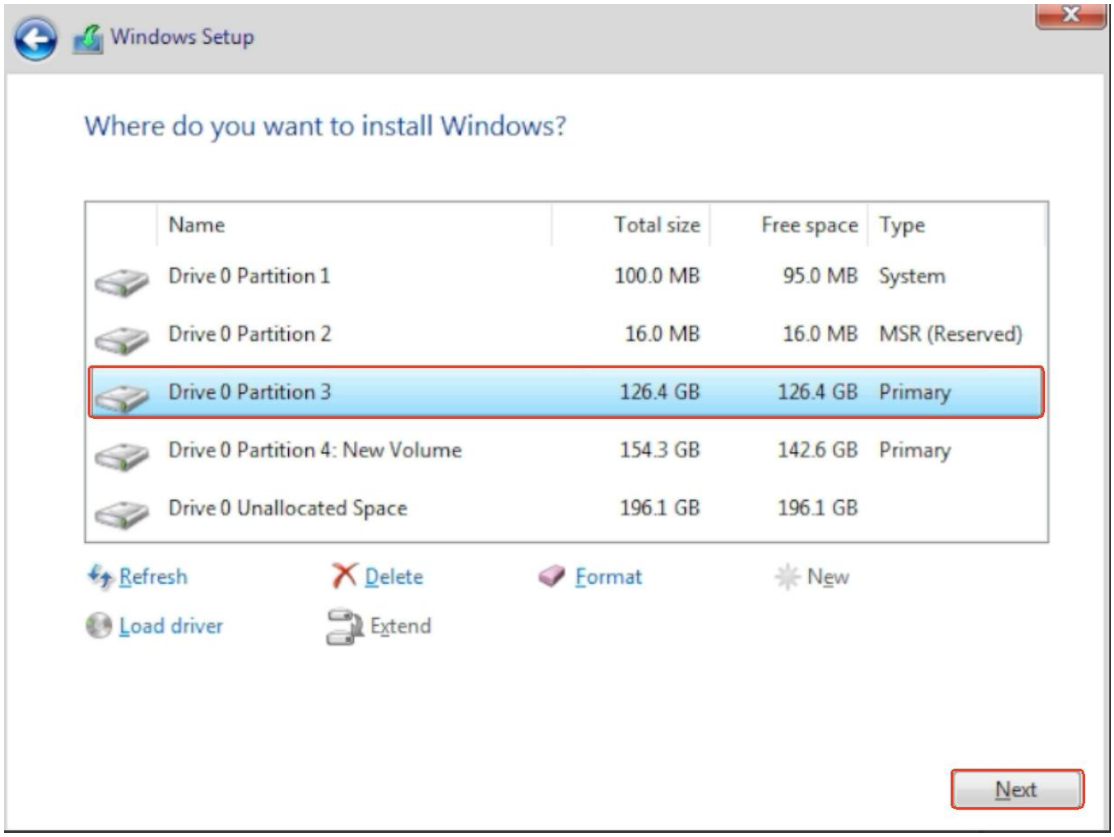
Partition, enter the hard disk size, and click Apply.



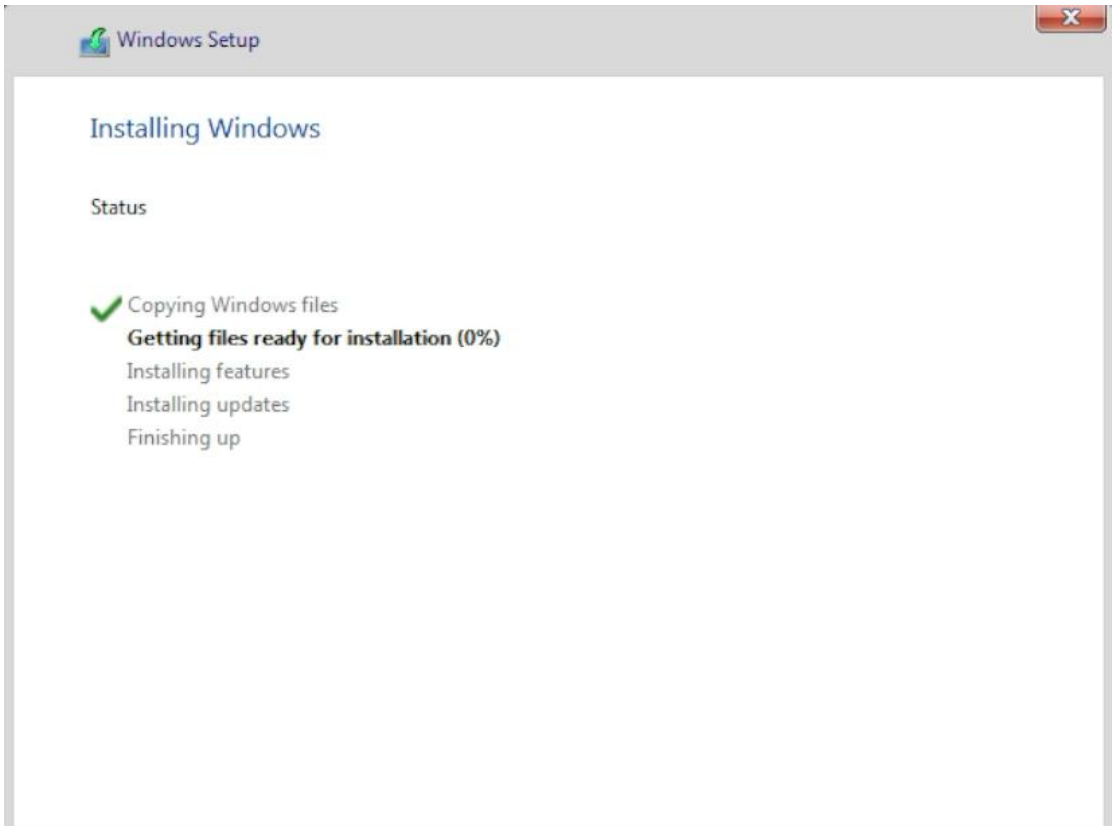
Continue clicking OK:



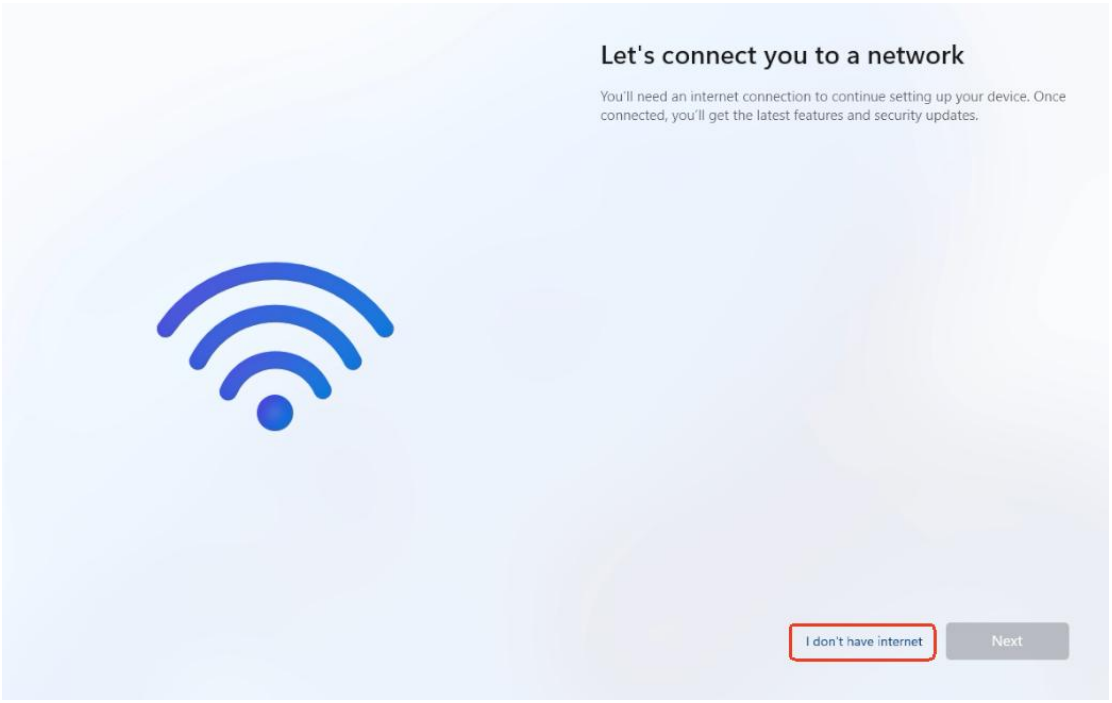
Select the primary partition of the hard disk in the figure below and click Next.

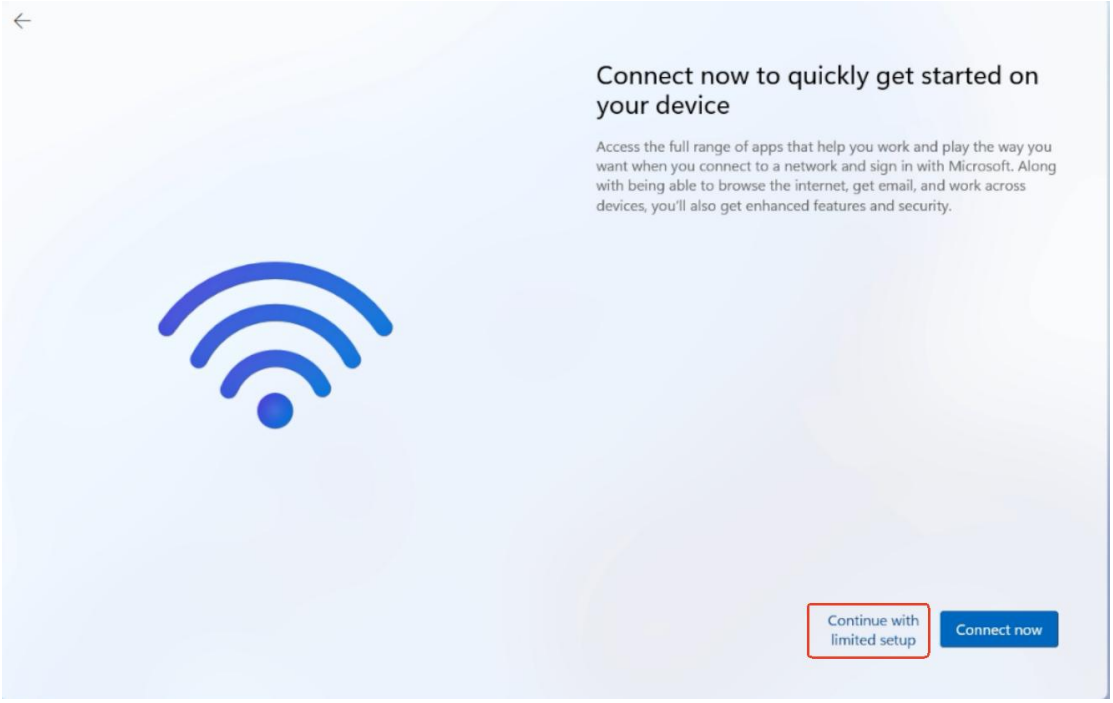


F.During the system installation, a restart will occur, please wait.

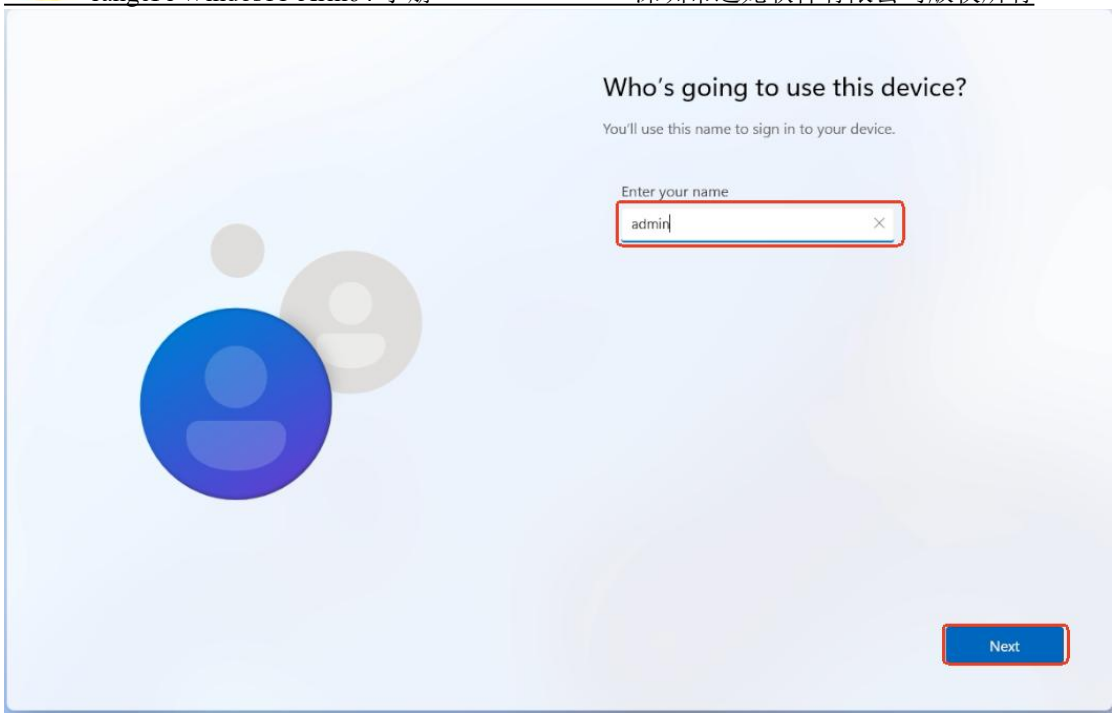


G.Then click I don’t have internet and Continue with limited setup to skip the network connection.

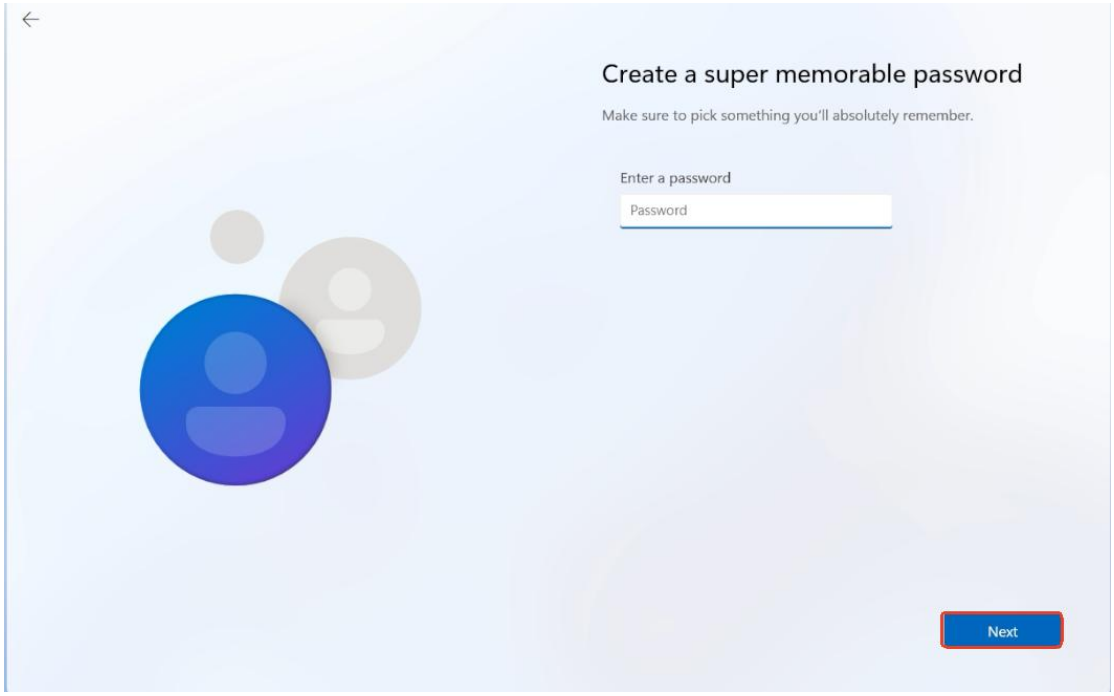




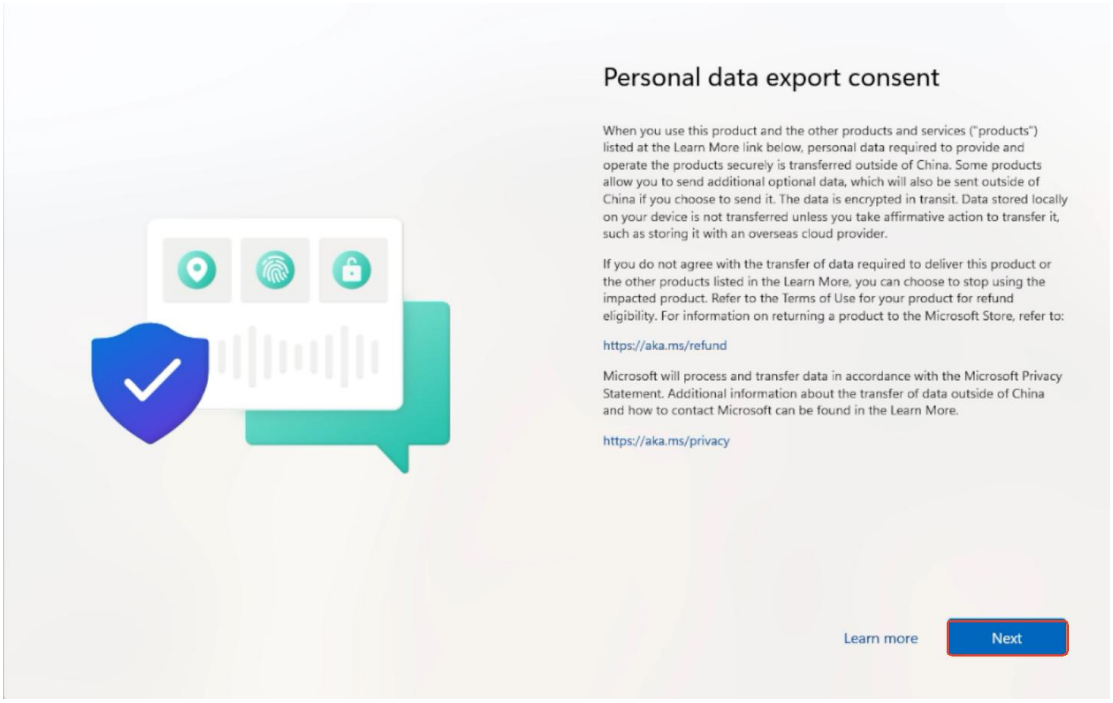
Enter the user name as admin and click Next.

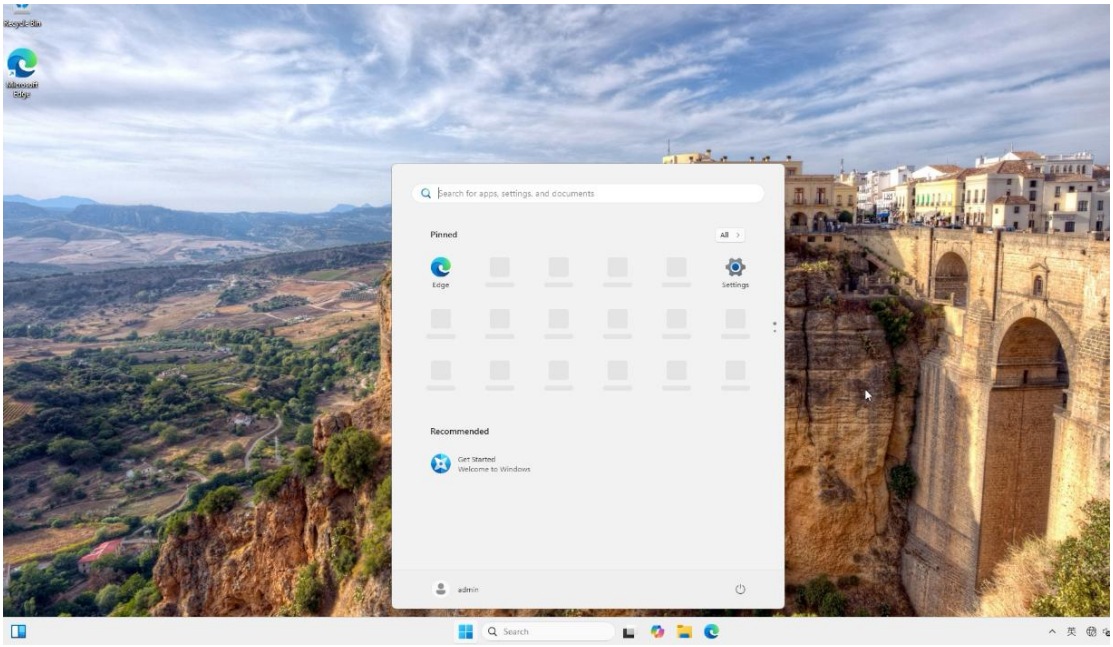


Do not set a password and click Next.



H. Click Next and wait for a while.





2. Install the driver

2.1. Download and copy the driver

Reference URL for driver packages, tools, and other information:

http://www.orangepi.cn/html/hardWare/computerAndMicrocontrollers/service-and-support/Orange-Pi-6-Plus.html

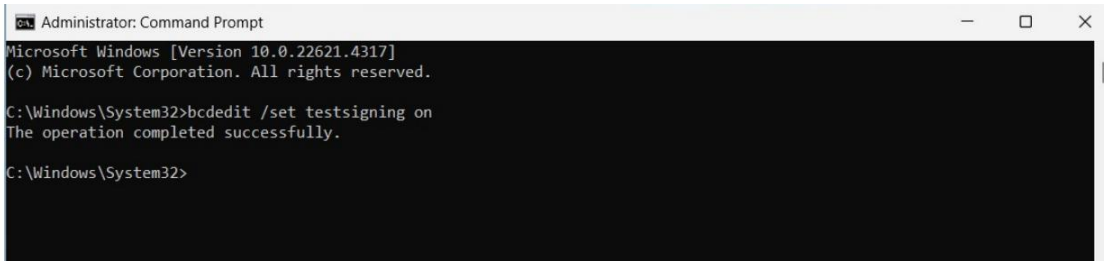
Select the "BIOS" icon on the official website to download driver-related information.

Use a USB flash drive to copy the driver and its tools to the Windows 11-Arm64 system.

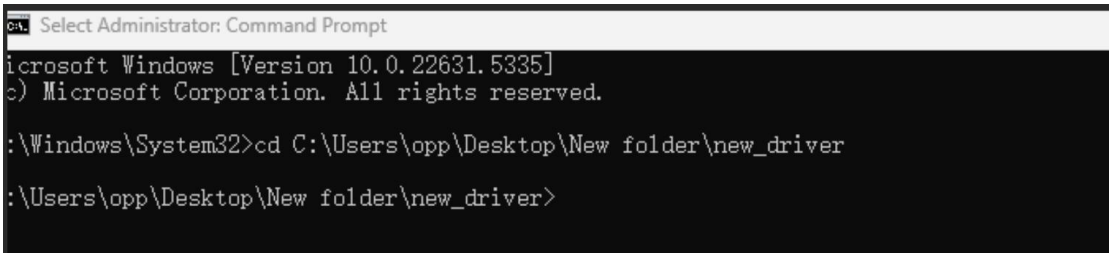
2.2. Install the driver

Note: Currently, driver installation is only supported in test mode.

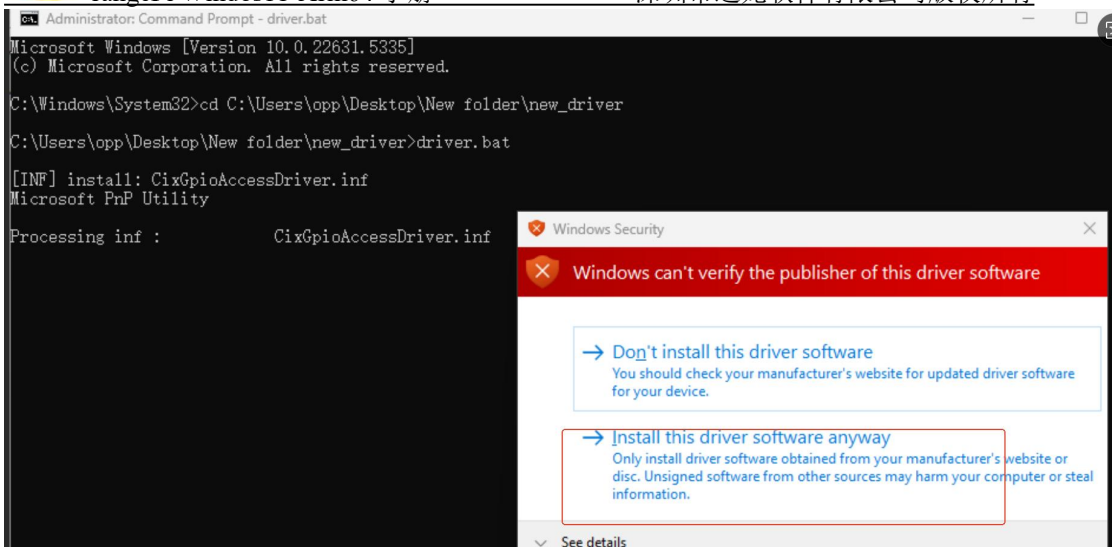
A.Enable test mode: Run the terminal as an administrator and enter the command "bcdedit /set testsigning on", then restart the Windows 11-Arm64 system.



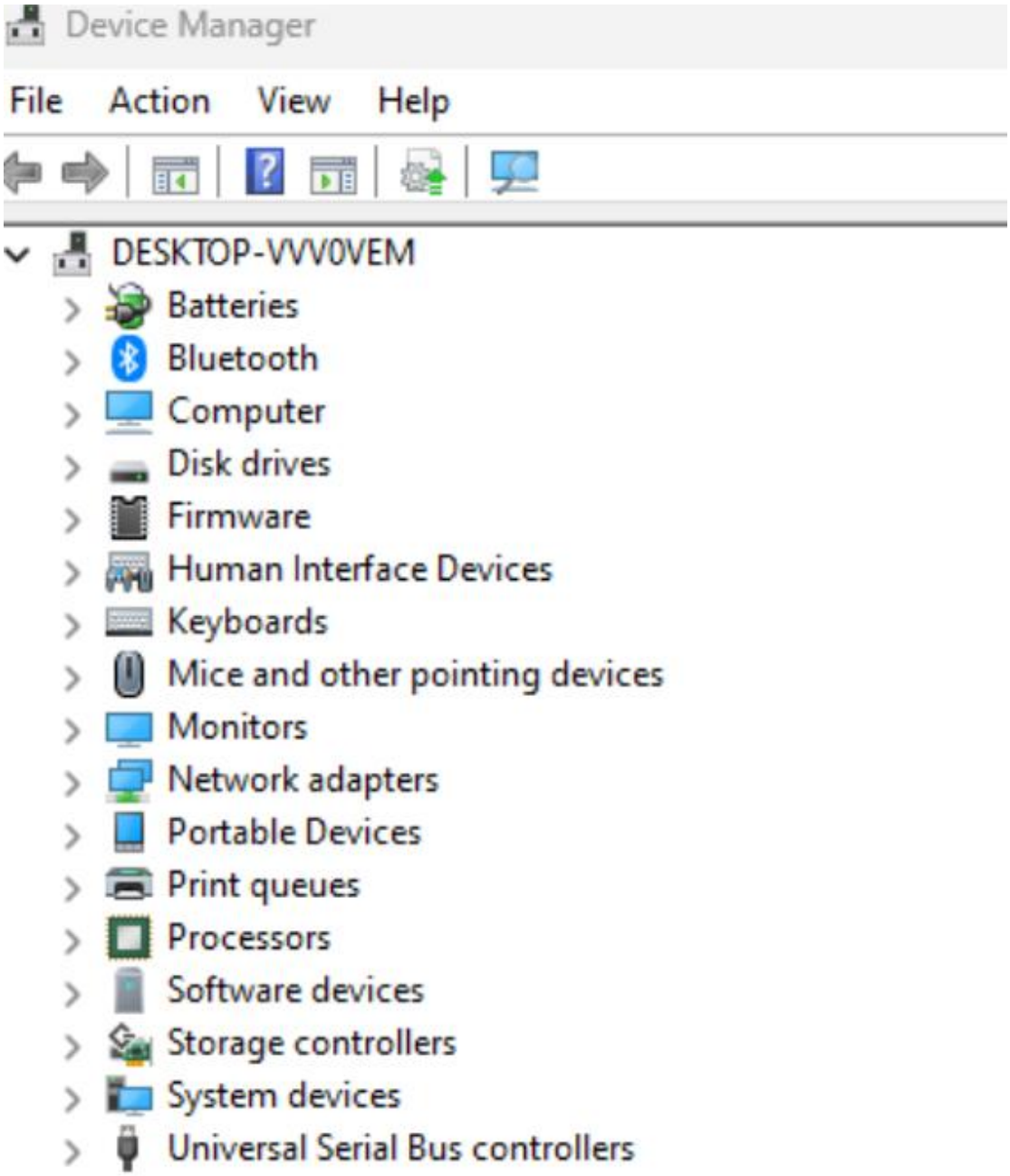
B.Install the Windos11-Arm64 driver and run the terminal as an administrator.



C.Execute the driver.bat script. During the installation process, a pop-up window will appear, as shown below. Continue clicking Install.
If this pop-up window appears again, repeat the above steps.



After executing the script, the development board will be restarted, and you will eventually see the device manager. There will be no yellow exclamation mark device, as shown below:


Device Manager
File Action View Help
DESKTOP-VVV0VEM
Batteries
Bluetooth
Computer
Disk drives
Firmware
Human Interface Devices
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Portable Devices
Print queues
Processors
Software devices
Storage controllers
System devices
Universal Serial Bus controllers

3. Appendix

3.1 Windows 11-Arm64 Manual Update History

Version	date	Update Notes
v1.0	2025-10-15	Initial version
v1.1	2025-11-4	Added manual 1.3 to the BIOS Options section for Windows 11-Arm64 systems
v1.2	2026-1-30	Add the second subsection of manual 1.3 to the BIOS Options section for Windows 11-Arm64 systems 24H2 and 25H2 versions