

BIOS Update Tutorial

Download the BIOS ISO upgrade file. Most of our brand's BIOS firmware is in ISO format and updated through UEFI. At the moment, I don't have a sample of the exact motherboard model you purchased, only the R&D department has it. Therefore, I used another model as a substitute for demonstration. However, please rest assured that the BIOS update procedure is the same across models, so you can safely follow the steps below.

Additionally, since my OS is Windows, I can only demonstrate the process under Windows. I recommend that you also use a computer with Windows installed to create the Ventoy bootable drive before proceeding.

1. Download Ventoy

Ventoy is used for multi-ISO booting and installation. It supports installing multiple different systems on a single USB drive, such as ESXi, Proxmox VE, Windows, Linux, and others.

Official Ventoy website: <https://www.ventoy.net/en/index.html>

The screenshot shows the Ventoy website homepage. At the top is the Ventoy logo and tagline 'A New Bootable USB Solution'. Below is a navigation bar with links: Main page, Screenshot, Downloads, Document, Tested ISO, Experience Sharing, Plugin, FAQ, Forums, and Donation. The 'News' section is highlighted in red and contains a red-bordered box around the text '2025/08/18 --- New release ventoy-1.1.07 more ...'. Below the news section is the 'What is Ventoy' section, which describes the tool and its capabilities. At the bottom of the screenshot is the 'iVentoy' section.

On the website, click the link inside the red box.

The screenshot shows the 'Binary' download page on the Ventoy website. It features a table with columns: File, SHA-256, Released, and Size. The first row, 'ventoy-1.1.07-windows.zip', is highlighted with a red box. Below the table is a 'History Release ...' link. At the bottom, there is a 'Notes' section with a warning about underprovisioned websites and a link to the sourceforge project page.

File	SHA-256	Released	Size
ventoy-1.1.07-windows.zip	3e7a8db199c7e791e341e6d388d078bfc6b7a77c6f10282edf9c7b82f84f3ad4	2025-08-18	15 MB
ventoy-1.1.07-linux.tar.gz	4ffabce468b03d63570e5f4594e209714d1509d065da102938096dad6654c36e	2025-08-18	19 MB
ventoy-1.1.07-livecd.iso	737c681af3549ebfb2234abe8dc4a2968a7b29548105b619b04cf9302b897557	2025-08-18	186 MB

History Release ...

Notes:
This website is underprovisioned, so please download ventoy in the follows: (remember to check the SHA-256 hash)
1. <https://sourceforge.net/projects/ventoy/files>

Select the first .zip option

https://sourceforge.net/projects/ventoy/files/v1.1.07/

SOURCEFORGE

Business Software Open Source Software SourceForge Podcast Resources

Shift A browser built by you

Home / Open Source Software / System / Boot / Ventoy / Files

Ventoy Files

A New Bootable USB Solution
Brought to you by: [longpanda](#)

Summary Files Reviews Support Donate

Download Latest Version
Ventoy 1.1.07 release source code.zip (82.7 MB)

Get an email when there's a new version of Ventoy

Enter your email address

Home / v1.1.07

Name	Modified	Size	Downloads / Week
Parent folder			
ventoy-1.1.07-livecd.iso	2025-08-18	195.7 MB	29,640
ventoy-1.1.07-linux.tar.gz	2025-08-18	20.1 MB	31,065
ventoy-1.1.07-windows.zip	2025-08-18	16.7 MB	94,958
README.md	2025-08-18	546 Bytes	1,852
Totals: 4 Items		232.5 MB	157,515

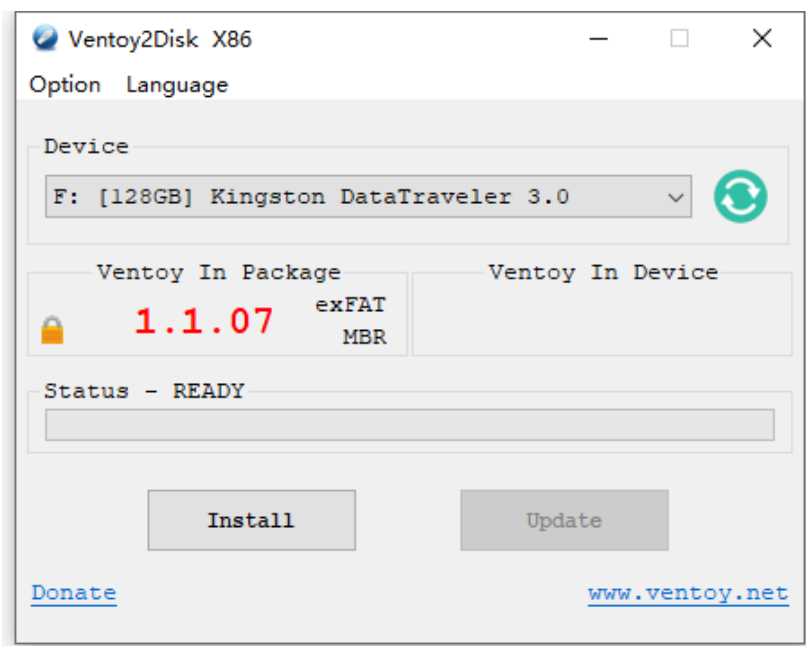
then choose the **windows.zip** version to download. After about 5 seconds, the download will start automatically.

2. Insert the USB drive

Please make sure to back up the data on your USB drive first. If it is already empty, you can skip this step.

3. Create the Ventoy bootable drive

Unzip the downloaded file **ventoy-1.1.07-windows.zip**, then double-click **Ventoy2Disk.exe** to run it directly.



After selecting the USB drive, simply click **Install**. Once the installation is complete, a success message will pop up. Close the window to finish the process.

4. Copy the BIOS ISO file to the USB drive

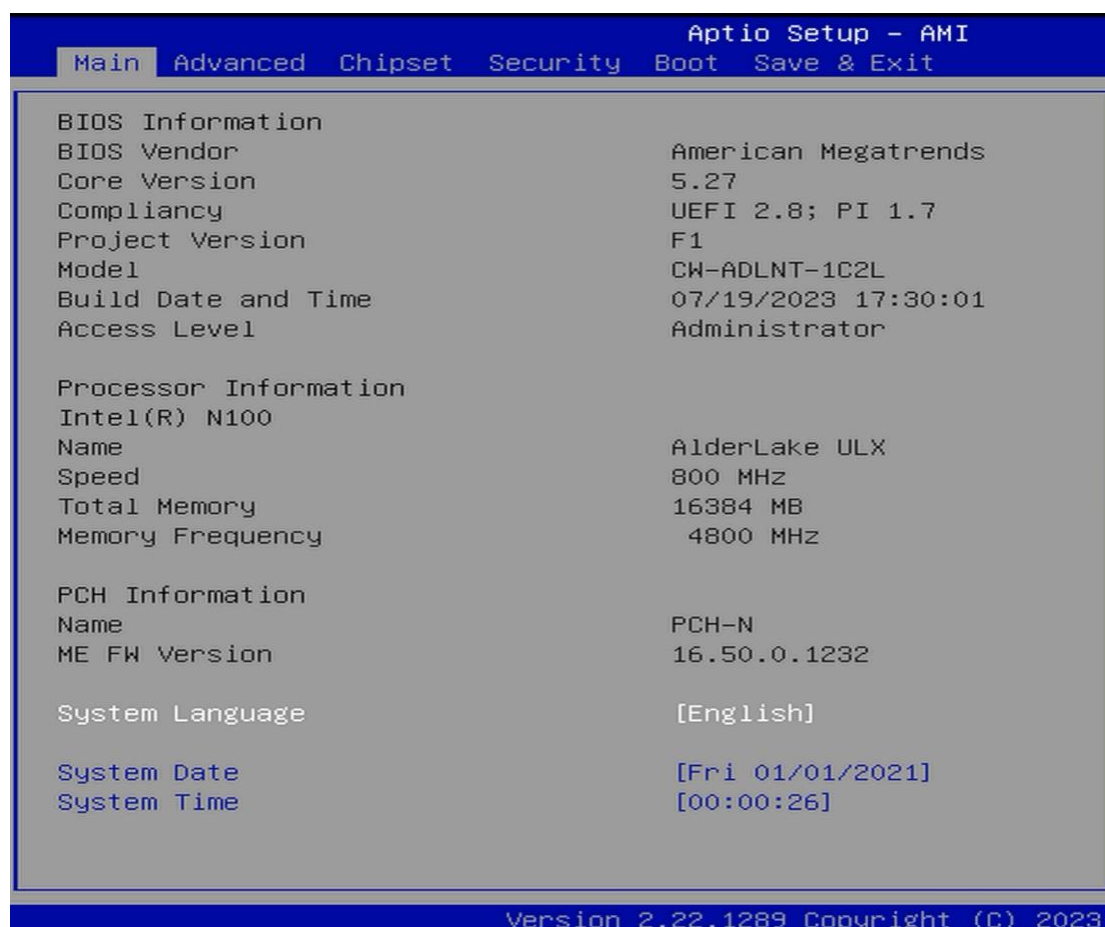
Directly copy the ISO file used for updating the BIOS into the USB drive.

5. Insert the USB drive into the target device

Remove the USB drive from your computer and plug it into the device that requires the BIOS update.

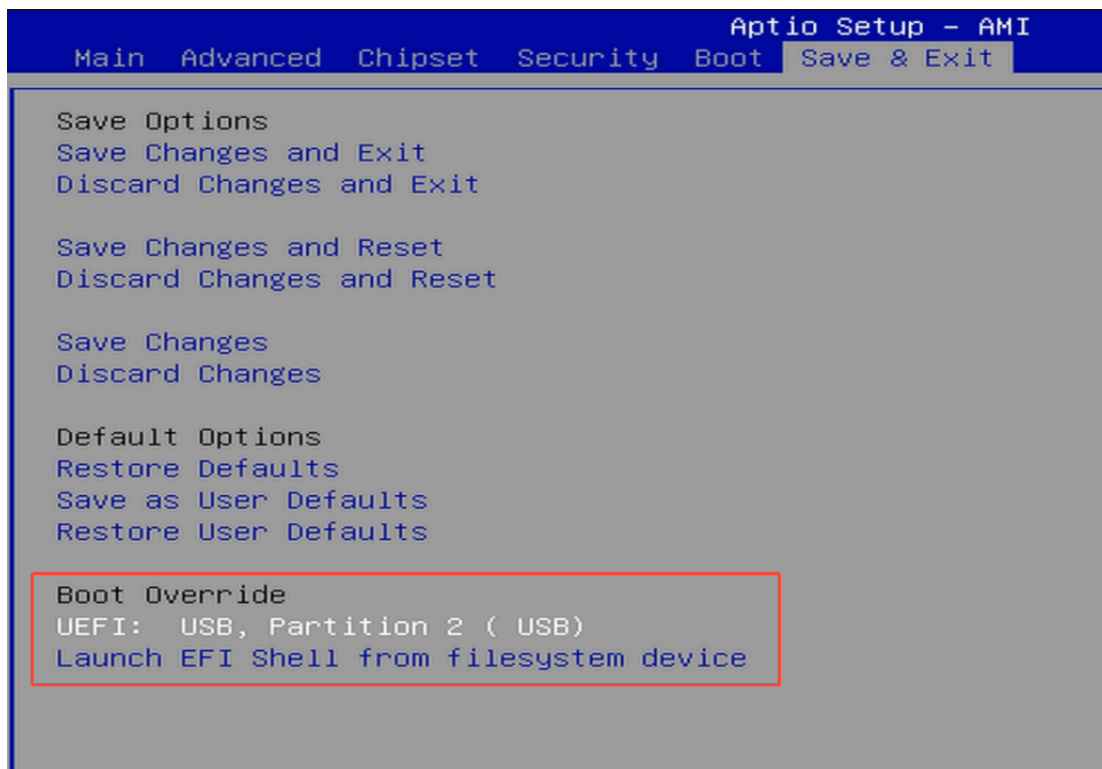
6. Boot or restart the device

Turn on or restart the computer. Continuously press the **Delete** key on the keyboard until you enter the BIOS setup. On the BIOS main page, take a photo or make a note of the current BIOS information (this is mainly for comparing the version before and after the update).



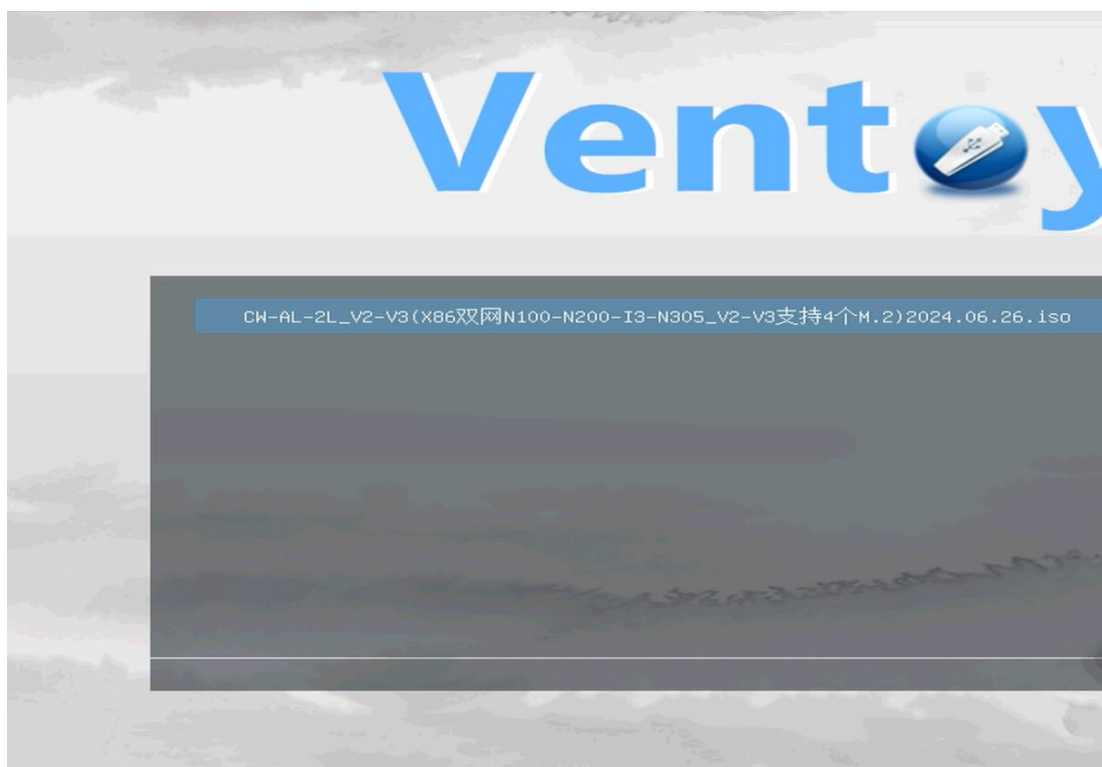
7. Boot from the USB drive

In the **Save & Exit** menu of the BIOS, select the USB drive as the boot device.



8. Enter the Ventoy menu

After booting, you will see the Ventoy selection menu. Choose the downloaded BIOS firmware update ISO file.



9. Start the BIOS update interface

Press **Enter** twice to enter the BIOS update interface. (After selecting the ISO, choose **Boot in normal mode** and press Enter.)



10. Final confirmation

After the program starts, press **Enter** before the countdown ends. It will display the BIOS model information. Verify that the model matches your device; if it's correct, press **Enter** to continue. This is the final confirmation—please double-check carefully to ensure you put the correct BIOS ISO on the USB drive and are flashing the right model.

```

                                PciRoot(0x0)/Pci(0x14,0x0)/USB(0x5,0x0)/HD(2,MBR,0xC4
,0x10000)
    blk0      :BlockDevice - Alias f6 fs0
                VenHw(37B87AC6-C180-4583-A705-414DA8F77ED2,7600650065
0030003000300000000)
    blk1      :Removable HardDisk - Alias hd11f0c fs1
                PciRoot(0x0)/Pci(0x14,0x0)/USB(0x5,0x0)/HD(2,MBR,0xC4
,0x10000)
    blk2      :Removable HardDisk - Alias (null)
                PciRoot(0x0)/Pci(0x14,0x0)/USB(0x5,0x0)/HD(1,MBR,0xC4
946800)
    blk3      :Removable BlockDevice - Alias (null)
                PciRoot(0x0)/Pci(0x14,0x0)/USB(0x5,0x0)

Press ESC in 1 seconds to skip startup.nsh, any other key to continue

*****
***                CW-ADLNTBX-1C2L  VER_F3                ***
***                CW-NVMe M2 PCIe3.0 x4 to 4 x1          ***
***                Supports CW-X86 P5 V2_V3  N100 N200 N305 ***
***                Automation Script by Jazz  Mod by CW-XiaoYun ***
*****
***                Mod Make Date 2024-09-19                ***
*****

Enter 'q' to quit, any other key to continue: _
  
```

11. Confirm BIOS selection

In the BIOS update interface, you usually need to press **Enter** twice. This step is used to make the final confirmation that the downloaded and selected BIOS firmware is correct.

12. BIOS update in progress

Once the below code appears, it means you have successfully entered the update program. Please wait patiently for the process to complete. **Do not turn off the power or force a restart during this time.**

```
***          CW-NVMe M2 PCIe3.0 x4 to 4 x1          ***
*** Supports CW-X86 P5 V2_V3 N100 N200 N305 ***
*** Automation Script by Jazz Mod by CW-XiaoYun ***
***** Mod Make Date 2024-09-19 *****
*****

Enter 'q' to quit, any other key to continue:
+\auto.nsh> cd CW-ADLNTBX-2L
+\auto.nsh> cd bios
+\auto.nsh> EfiFlash.nsh
++EfiFlash.nsh> Fpt.efi -f CW-ADLNTBX-1C2L_LOGO.bin
Intel (R) Flash Programming Tool Version: 16.0.0.1332
Copyright (C) 2005 - 2021, Intel Corporation. All rights reserved.

Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
ID:0xEF4018    Size: 16384KB (131072Kb)

GbE Region does not exist.

Processing Flash memory block      0 from 4095.
- Erasing Flash Block [0x001000] - 100 percent complete.
- Programming Flash [0x0001000]    4KB of    4KB - 100 percent
= Processed memory blocks 118 from 4095.
```

13. Update completion

Once the update is finished, you will normally see a success message (for example, green text as shown in the image).

```
Processing Flash memory block 3998 from 4095
- Erasing Flash Block [0xF9F000] - 100 percent
- Programming Flash [0x0F9F000] 84KB of
Processing Flash memory block 4031 from 4095
- Erasing Flash Block [0xFC0000] - 100 percent
- Programming Flash [0x0FC0000] 24KB of
Processing Flash memory block 4039 from 4095
- Erasing Flash Block [0xFC8000] - 100 percent
- Programming Flash [0x0FC8000] 12KB of
Processing Flash memory block 4062 from 4095
- Erasing Flash Block [0xFDF000] - 100 percent
- Programming Flash [0x0FDF000] 84KB of
Processing Flash memory block 4095 from 4095
- Erasing Flash Block [0x1000000] - 100 percent
- Programming Flash [0x1000000] 24KB of

RESULT: The data is identical.16384KB of 16384

Flash device was programmed. It is recommended
G3 power cycle to complete the flashing process

FPT Operation Successful.

++EfiFlash.nsh> pause
Enter 'q' to quit, any other key to continue:
```

14. Restart after update

After the update is complete, press **Enter** to restart. The machine will restart **twice**: the first restart records the hardware information, and the second restart boots the system. Please note that the waiting time after the update may be slightly longer than usual.

15. Verify successful boot

If you previously set the USB drive as the first boot option, the second restart will directly enter the Ventoy menu again. This indicates that the system has successfully booted.



16. Verify BIOS version

After restarting, continuously press the **Delete** key on the keyboard to enter the BIOS setup. Compare the BIOS version with the previous (old) version to ensure the update was successful.

