

How to Update the BIOS and EC on Your Computer?

Introduction:

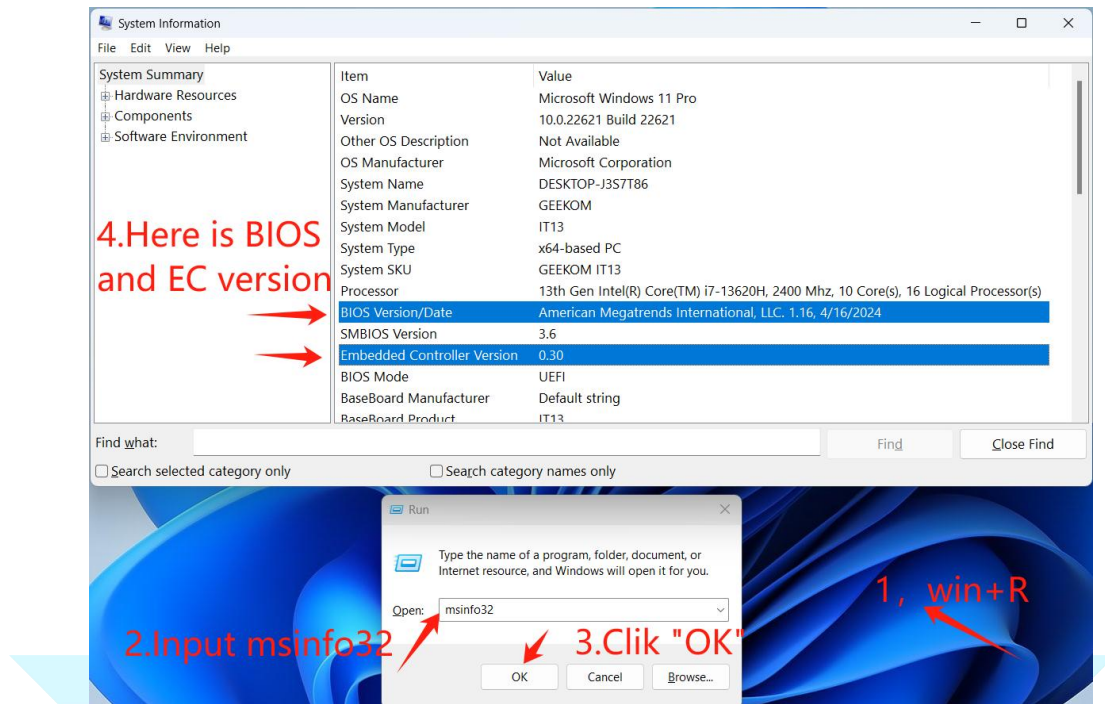
1. There are two ways to update the BIOS:
 - a) One method requires a 16GB USB drive. Once prepared, you can flash it from the BIOS interface. This method is suitable if your computer cannot boot into the system or if you have only installed RAM without an SSD.
 - b) The other method involves using a BIOS application that you can simply double-click to run in the system.
2. The method for updating the EC (Embedded Controller) is the same as the first BIOS update method. Typically, you can place both the BIOS and EC files on the USB drive for a combined update.

Tip: During the update process, do not force shutdown, disconnect power, or remove the USB drive, as this may lead to a permanent black screen.

GEEKOM

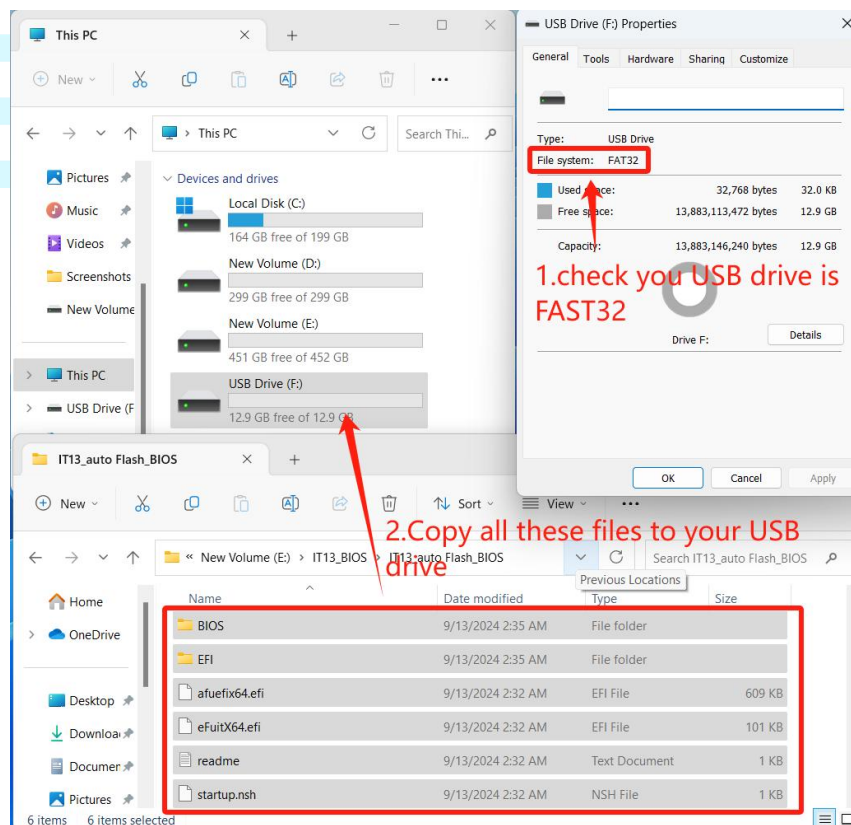
Determine Your BIOS and EC Versions:

While on the desktop, press Windows + R, type **msinfo32**, and click OK. This will bring up a window with your computer's information, including the BIOS version and EC version, as shown below.

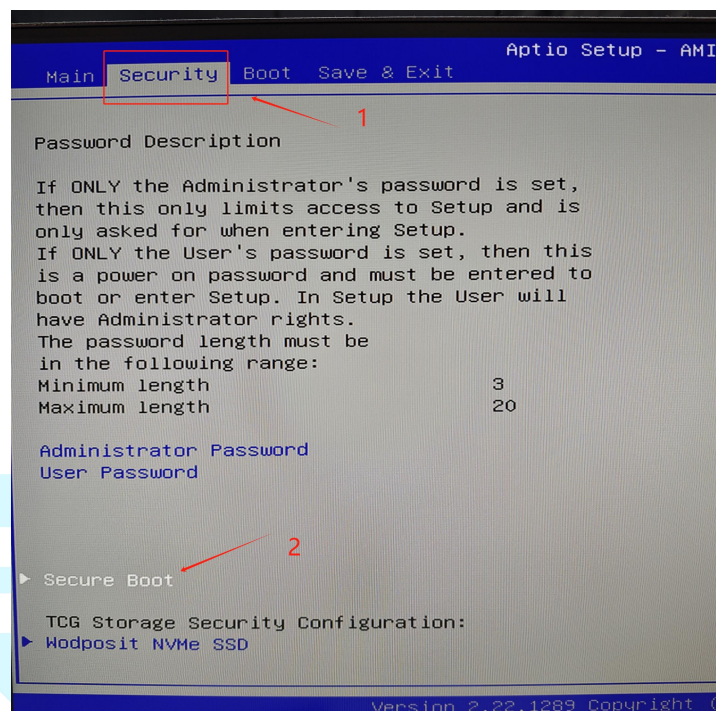


Updating the BIOS:

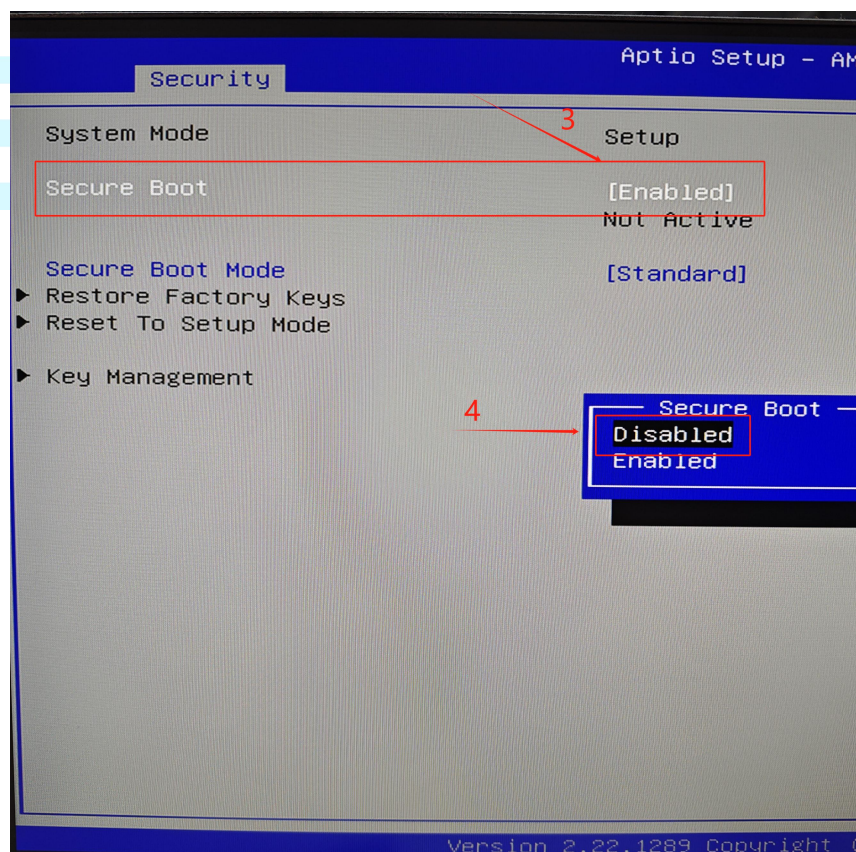
1. **Method a:** Prepare an empty USB drive formatted to FAT32 (if not, right-click the USB drive and format it to this format). Copy the extracted BIOS files to the root directory of the USB drive (**do not copy the entire folder, just the files inside**), as shown below

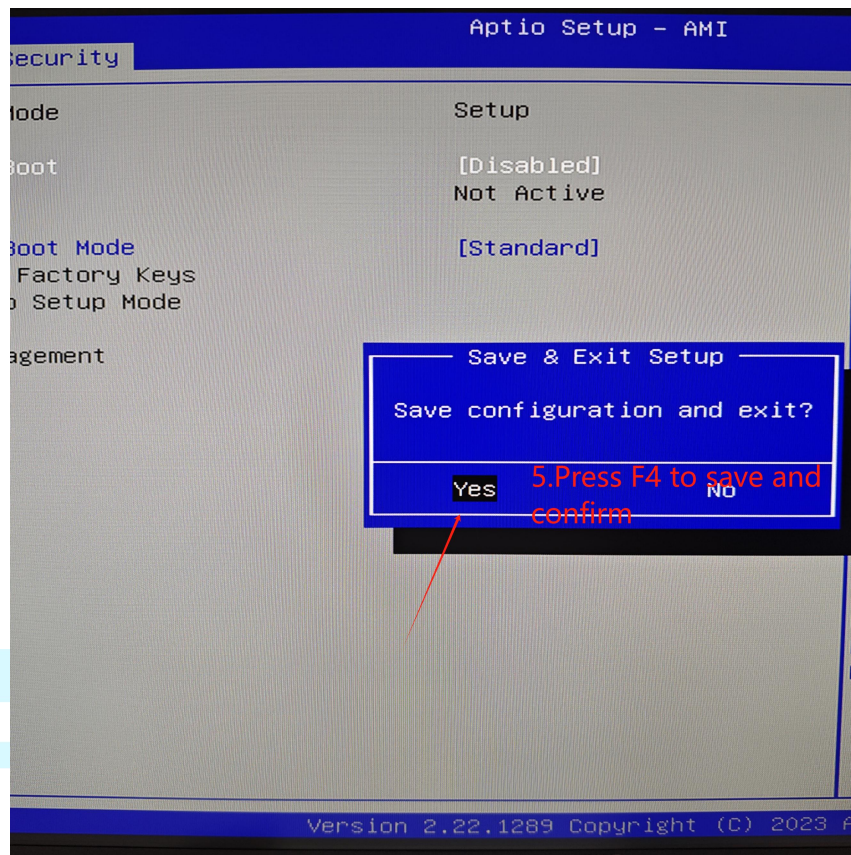


After preparing the USB files, insert the USB drive into your computer, shut down, and restart. Press the Del key (you can repeatedly press it) to enter the BIOS interface. Use the keyboard arrow keys to select the **Security** tab in the BIOS menu, choose **Secure Boot**

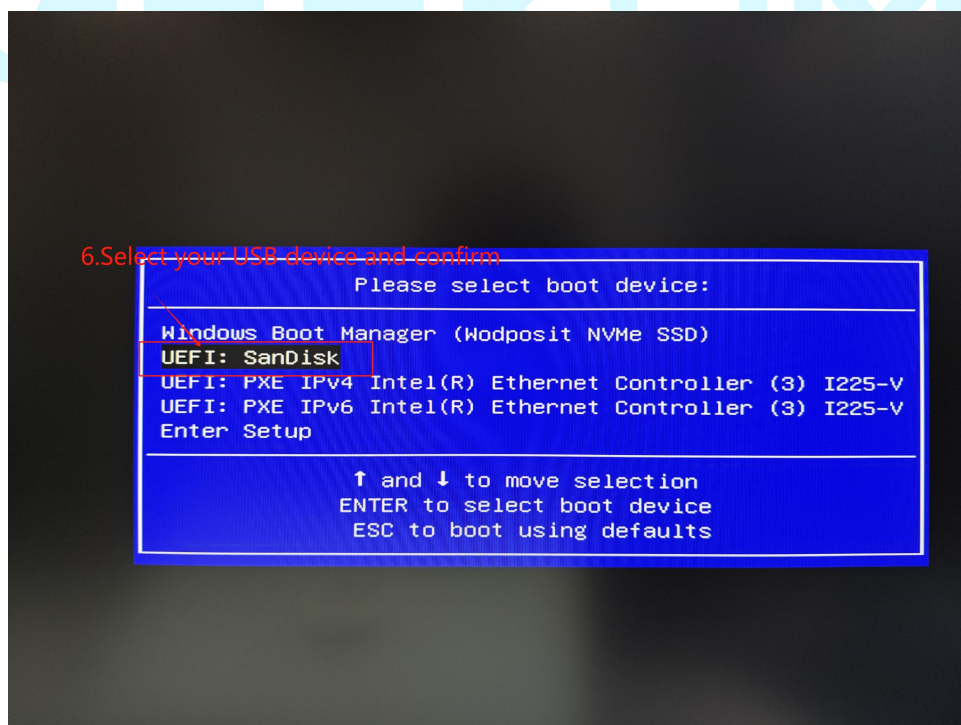


And set it to **Disable**. Then press F4 to save the settings and restart.





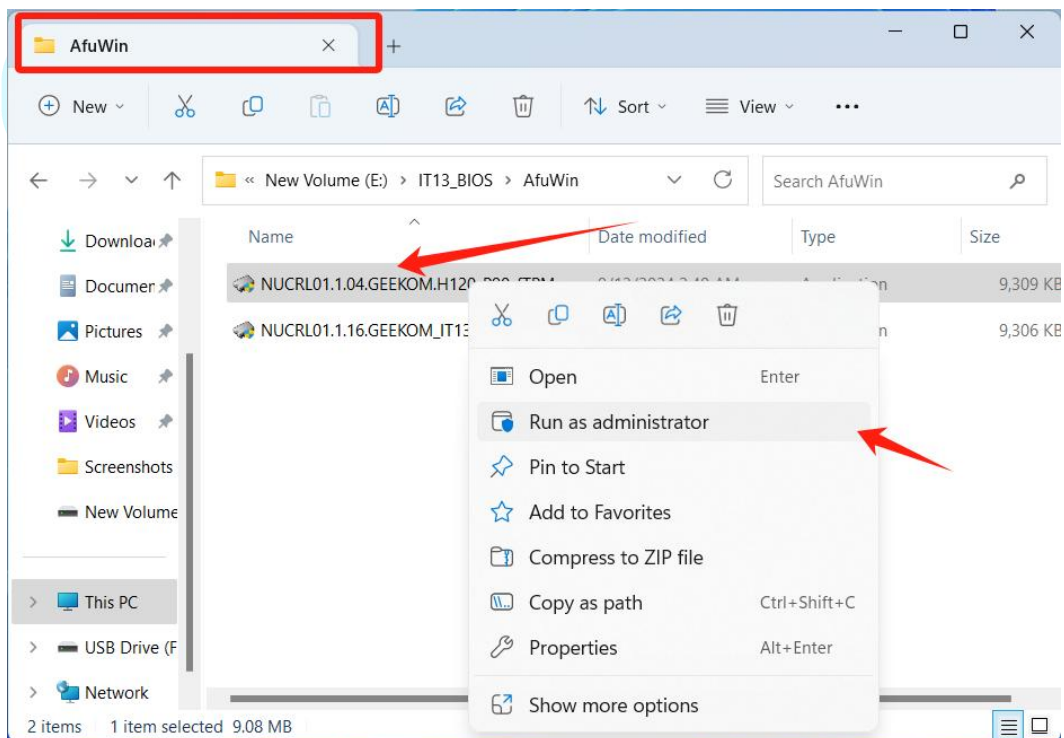
When the computer restarts, press F7 (you can repeatedly press it) to enter the boot selection interface, select your USB device, and confirm. The computer will automatically start updating the BIOS. Wait a few minutes; after the BIOS update program finishes, the computer will automatically shut down and restart (do not remove the USB drive during the BIOS update).



```
blk4 :HardDisk - Alias hd12g fs4
      PciRoot(0x0)/Pci(0x6,0x0)/Pci(0x0,0x0)/NVMe(0x1,00-02-00-90-
)/HD(6,GPT,3DB39685-ADAE-4B5F-9A67-2F85B8C54A20,0x77040800,0x37C800)
blk5 :Removable BlockDevice - Alias f19o0 fs5
      PciRoot(0x0)/Pci(0x14,0x0)/USB(0xE,0x0)
blk6 :HardDisk - Alias (null)
      PciRoot(0x0)/Pci(0x6,0x0)/Pci(0x0,0x0)/NVMe(0x1,00-02-00-90-
)/HD(2,GPT,53B6794C-CB02-4B0C-AFF0-AEEA2E232C65,0x32800,0x8000)
blk7 :BlockDevice - Alias (null)
      PciRoot(0x0)/Pci(0x6,0x0)/Pci(0x0,0x0)/NVMe(0x1,00-02-00-90-
)

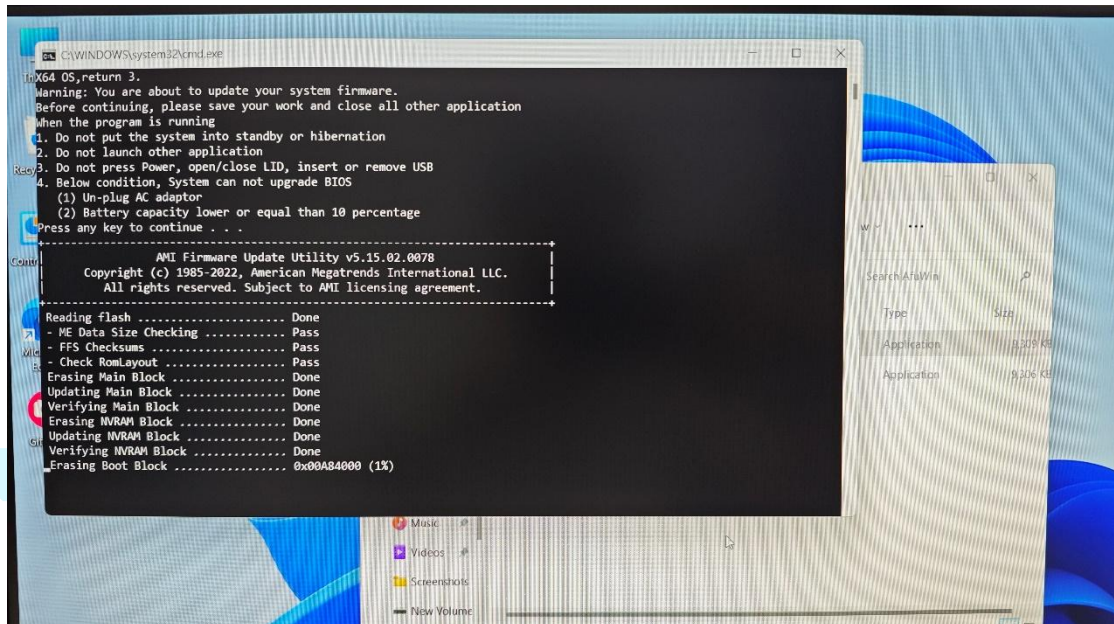
Press ESC in 1 seconds to skip startup.nsh, any other key to continue
startup.nsh> echo -off
not find fs0
not find fs1
not find fs2
not find fs3
not find fs4
+-----+
|               AMI Firmware Update Utility v5.15.02.0078               |
| Copyright (c) 1985-2022, American Megatrends International LLC.       |
| All rights reserved. Subject to AMI licensing agreement.              |
+-----+
_RReading flash ..... 0x00A30000 (63%)
```

2. **Method b:** Extract the BIOS compressed package, open the AfuWin folder, and double-click the .exe file inside to run it. The system may prompt with warnings about unknown files or viruses; continue to choose to run it (do not manually shut down or disconnect power during the update).



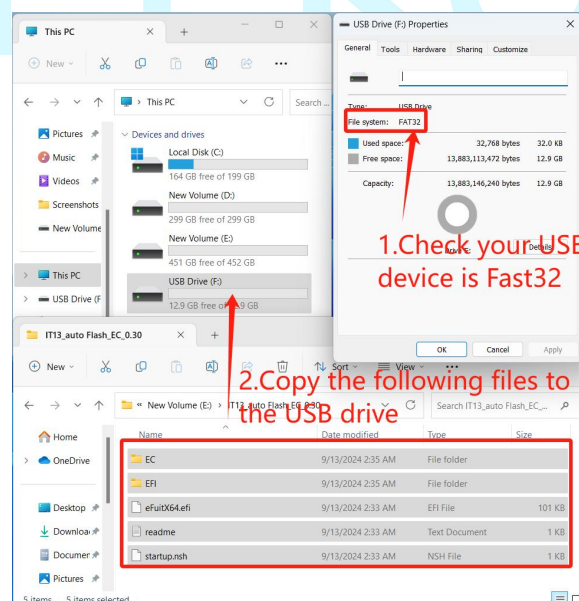
The image below shows the interface for starting the BIOS update program; you will not

be able to use the keyboard or mouse at this point, so just wait a few minutes for the program to complete. The computer will automatically restart. The first boot after updating the BIOS may be slightly slower, but this is normal; subsequent boots will start quickly.



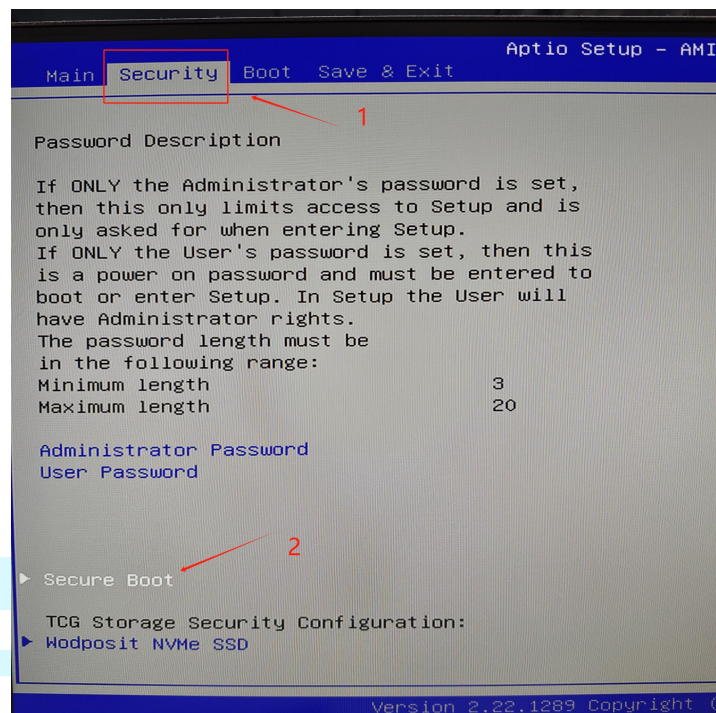
Updating the EC:

1. The EC update method is the same as the first BIOS update method. Prepare an empty USB drive formatted to **FAT32** (if not, right-click the USB drive and format it to this format). Copy the extracted BIOS files to the root directory of the USB drive (do not copy the entire folder, just the files inside), as shown below.

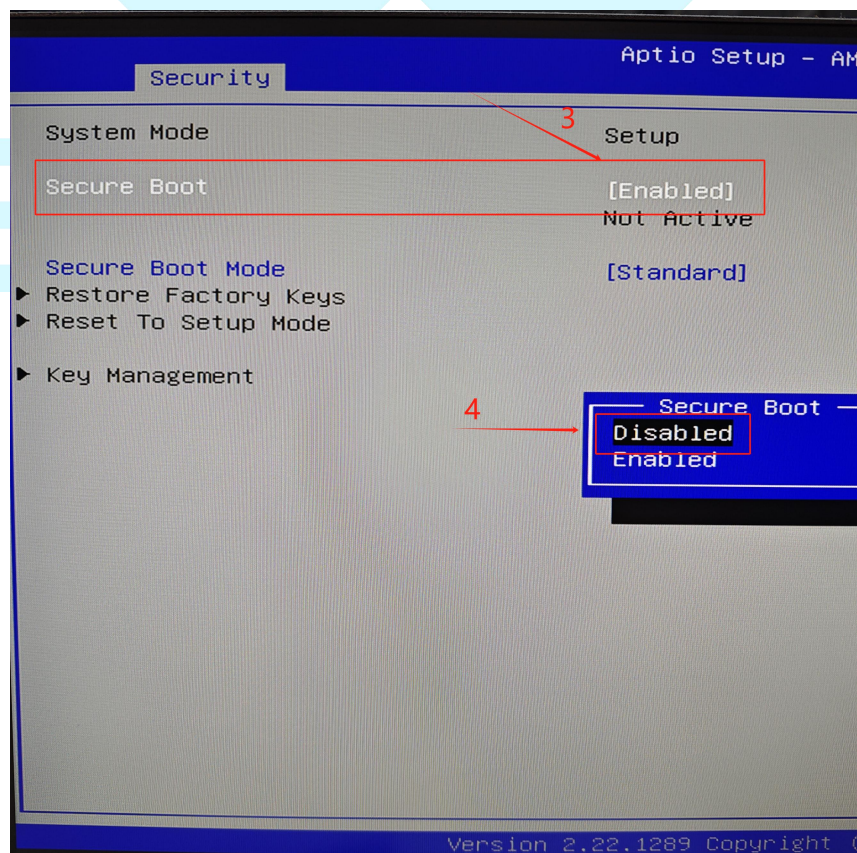


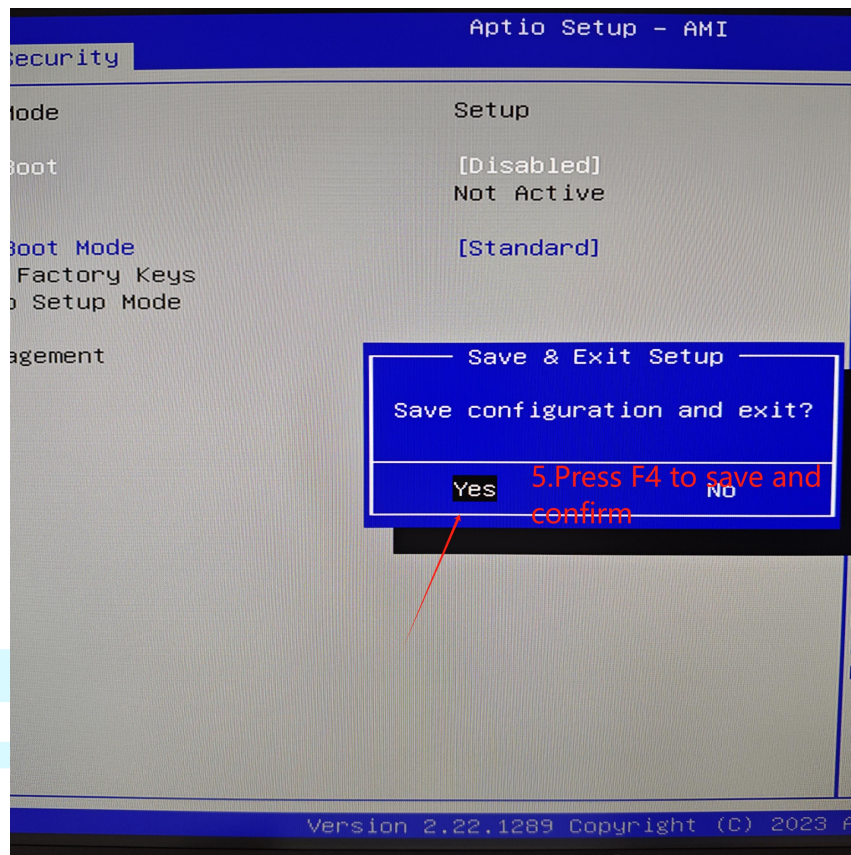
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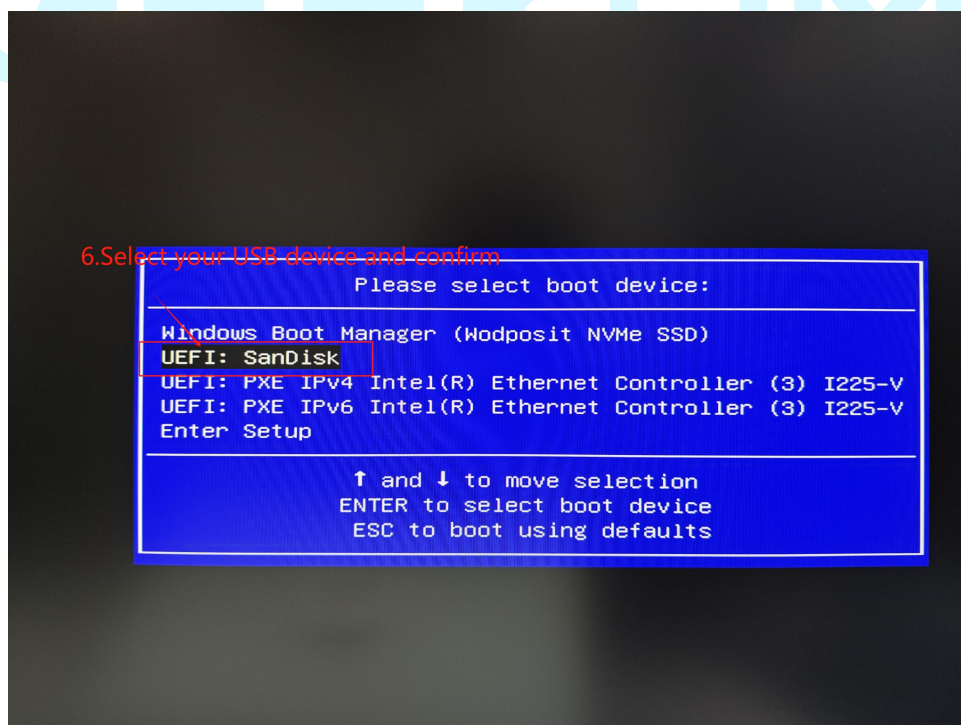


And set it to **Disable**. Then press F4 to save the settings and restart.





When the computer restarts, press F7 (you can repeatedly press it) to enter the boot selection interface, select your USB device, and confirm. The computer will automatically start updating the BIOS. Wait a few minutes; after the BIOS update program finishes, the computer will automatically shut down and restart (do not remove the USB drive during the EC update).



ITE Flash Utility Version : 2.4.2

Device ID : FF FF FE FF
SPI Vendor : ITE A type
Block Number : 0
Access Port : 0x62/0x66

Erasing... : ██████████ -- Erase OK.
Erase Verify... : ██████████ -- Verify OK.
Programing... : █████

Thank you for watching. If there are any mistakes, your corrections are welcome.

