

Concept of UEFI standard in computers

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1- Compare UEFI and BIOS standards

UEFI BIOS Only limits 16-bit processing and memory addressing is 1MB

Features 32-bit and 64-bit processing, allowing users to use more RAM to address more complex tasks. Moreover, UEFI is designed with a separate structure and uses driver level for independent modules. MBR limited to 4 main partitions per drive and bootable disk size is only 2.2TB

UEFI uses GUID partition table and uses Globally Unique ID to address partitions and allows hard drive booting up to 9.4 Zb

In addition, UEFI also allows multiple boot options, no specific file system rules and extremely fast boot speed, much faster than the old BIOS standard.

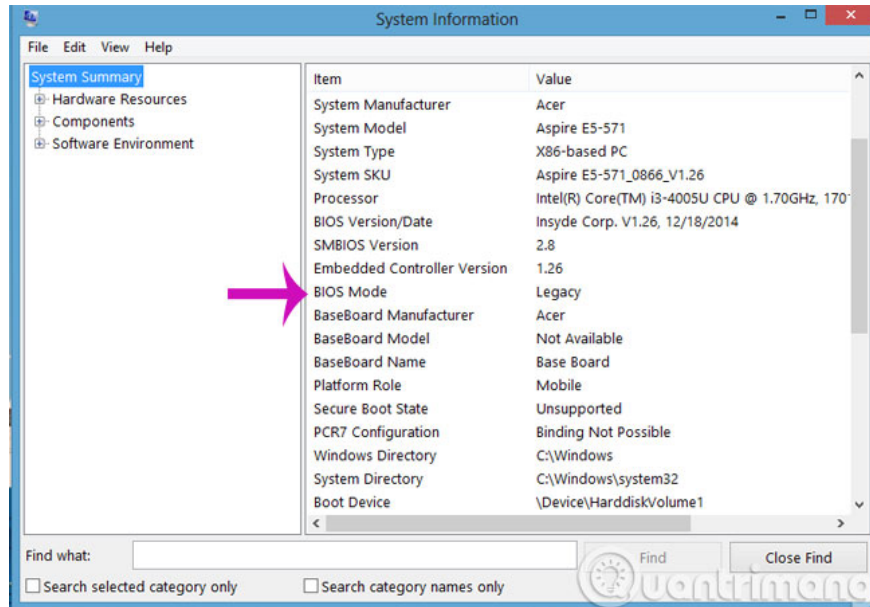
UEFI continues to support older extensions such as ACPI but does not depend on a 16-bit environment. If there was an error such as loose RAM, the BIOS will beep, instead, the new standard in UEFI extensions can check the parts better.

UEFI is the new standard that is replacing the old Legacy standard and is only supported for 64-bit versions of Windows.

In the article below, we will show you how to see if your computer is booting and using which standard (UEFI or Legacy?)

2- Check if the computer is using what standard?

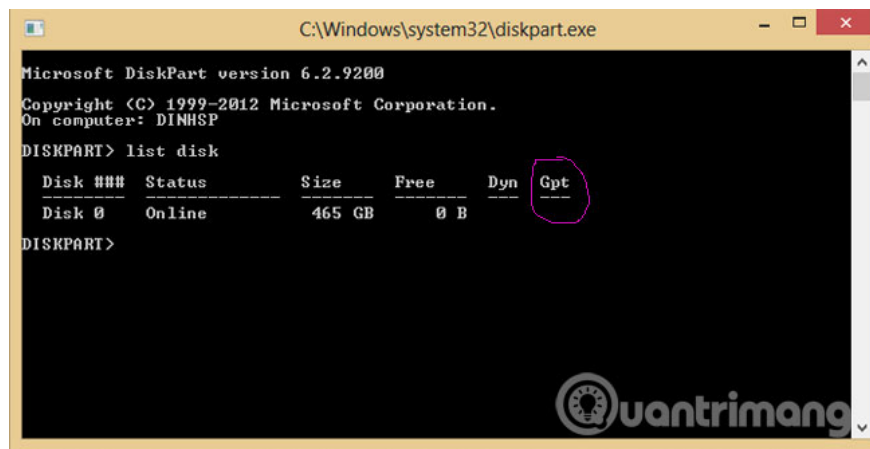
Method 1 : Press **Windows + R** to open the Run dialog box and enter the command **msinfo32** and press **Enter** . Here, you can scroll down and navigate to the **BIOS Mode** section to see which standard your computer is booting.



Method 2 : You also open the **Run** dialog box and enter the **diskpart** command, press **Enter** . The Diskpart window appears, continue typing **list disk** command and press **Enter** . Here will show all the hard drive lists, for example, if you have more than 1 hard drive or you are connected to a USB drive, the hard drive with the computer is also listed.

If you notice the **Gpt** column, if the hard drive name in the Gpt column has a *****, it means that the hard drive is running in **GPT** standard and then the **MBR** standard.

Note: If using **UEFI** standard, format the hard drive as **GPT** and if using standard **Legacy** , hard drive format is **MBR** .

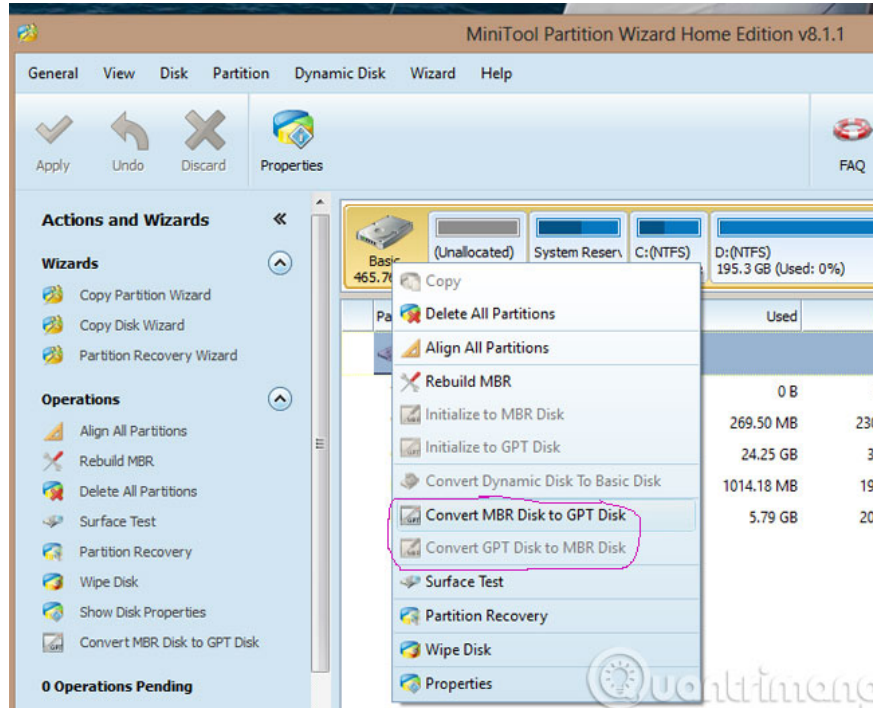


Method 3 : Use **MiniTool Partition Wizard**

Open the application and right-click on the **Basic** drive and notice the following line

1. **Convert MBR Disk to GPT Disk** : Convert from MBR format to GPT
2. **Convert GPT Disk to MBR Disk** : Convert from GPT format to MBR

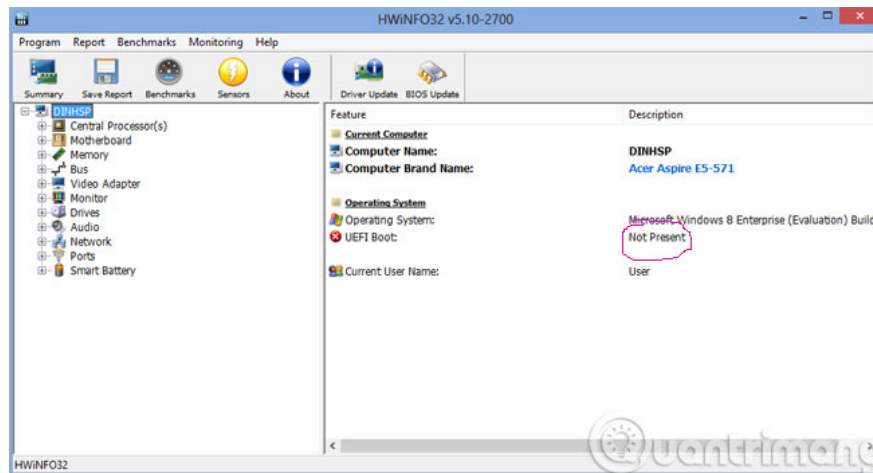
If the line is lighted, you are in that standard, specifically the MBR



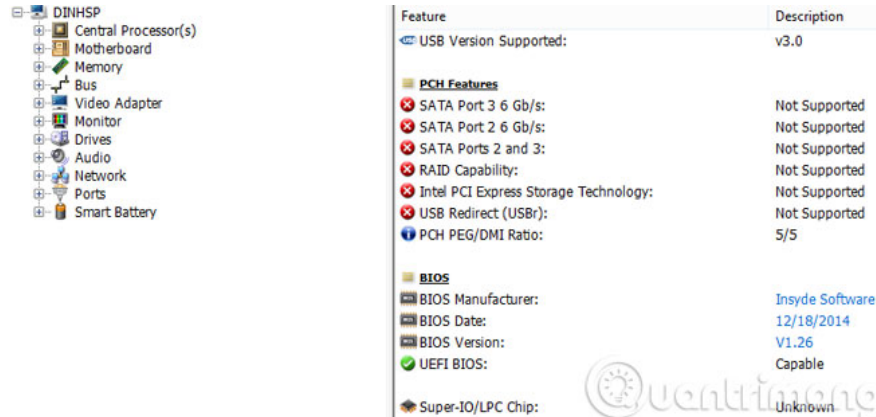
3- Check if the computer supports UEFI?

Method 1 : Use HWiNFO software

You open the application to check, at the main interface of the program you look down the line **UEFI BOOT**. If it is **Present** then your computer will support **UEFI** and if it is **Not Present**, then you can watch it.



Click on the **Motherboard** and scroll down to view the **UEFI BIOS** line, if it is still **Not Present**, then condolences, your computer does not support UEFI but only BIOS support. If it is **Capable**, then your computer will support UEFI standard



Method 2 : Check in the BIOS

Go into the BIOS and find out if there are any words related to UEFI or support Security boot, then surely the computer will support UEFI standard.

Hopefully after reading this article, you will understand more about UEFI standard as well as determine which computer you are booting in and see if your computer supports UEFI?

1. Theory - What is VPN?
2. Theory - What is a proxy?
3. Theory - What is SOCKS?

Having fun!

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