



msi[®]

HOW TO UPGRADE YOUR PC WITH A NEW GRAPHICS CARD

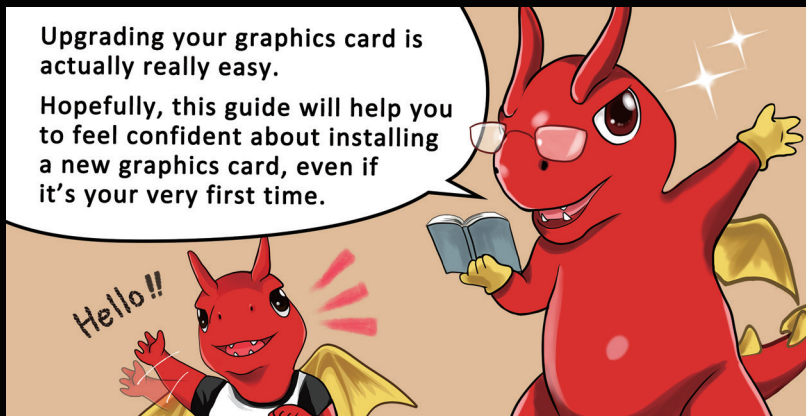


-Hardware And Software Installation Guide -

Upgrading your graphics card is actually really easy.

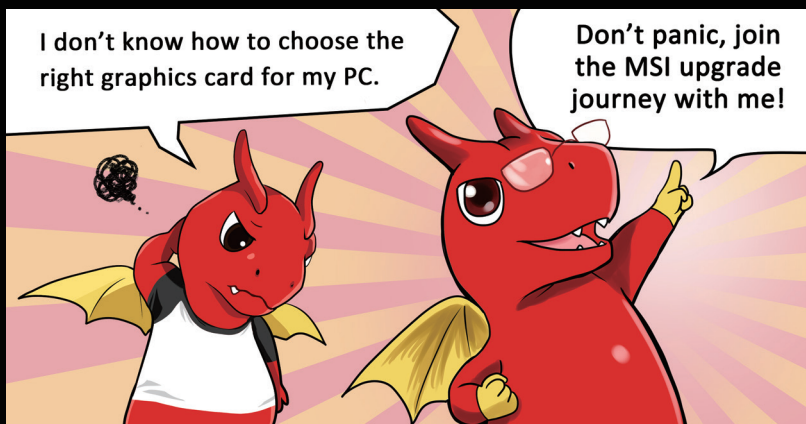
Hopefully, this guide will help you to feel confident about installing a new graphics card, even if it's your very first time.

Hello!!



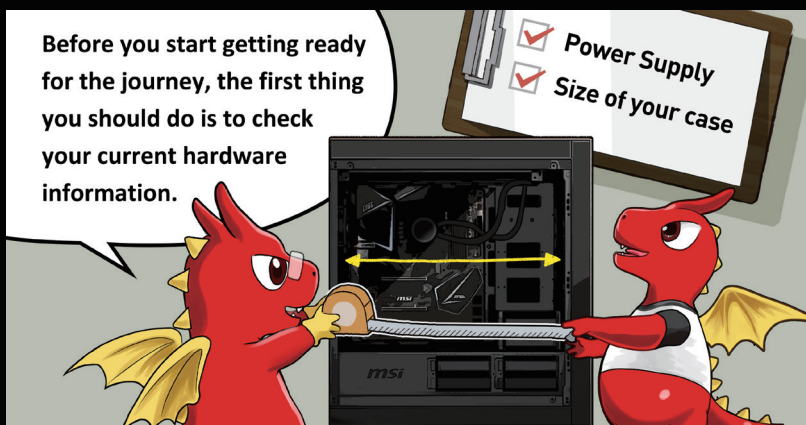
I don't know how to choose the right graphics card for my PC.

Don't panic, join the MSI upgrade journey with me!



Before you start getting ready for the journey, the first thing you should do is to check your current hardware information.

- Power Supply
- Size of your case



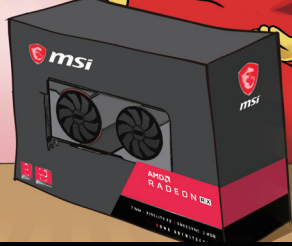
MSI provides an easy upgrade guide for you to choose the right graphics card!



MSI Beef Up Your Rig



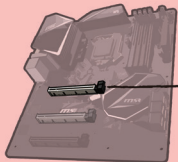
When you finally get your new card, it's time to install it!



Inside the box you will find your new card and a manual. To reduce waste, we no longer include the Driver CD in the package. It's always recommended to download the latest drivers from the MSI website.



PCI-E x16 slot



Monitor



Windows operating system

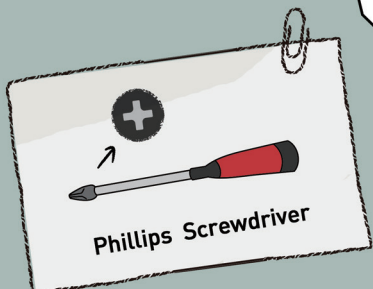


A motherboard with at least one available

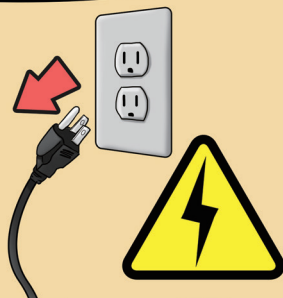
Before we start, you'll need to check for basic compatibility.



For the upgrading process, you'll need a Phillips-head screwdriver and a bit of time.



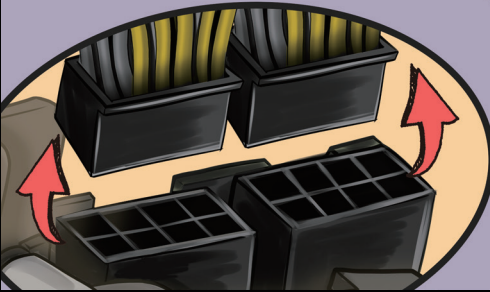
Be sure to turn off your PC and unplug all the cables before you begin.



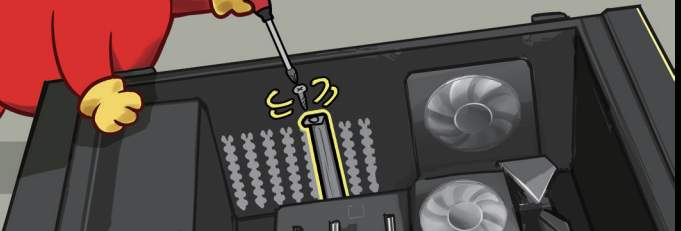
Now it's time to remove the side panel from the case.



First, unplug the power connector from the old graphics card.



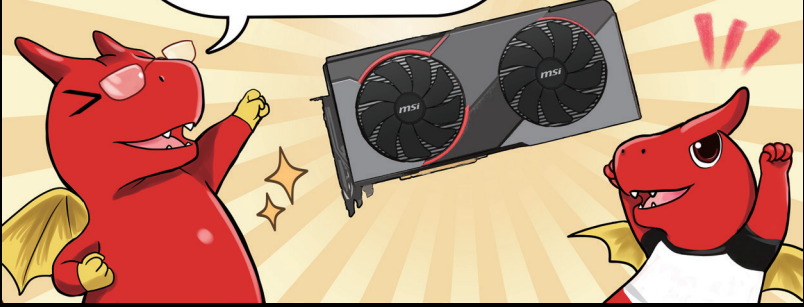
Remove the screws that hold the graphics card in place at the back of your case.



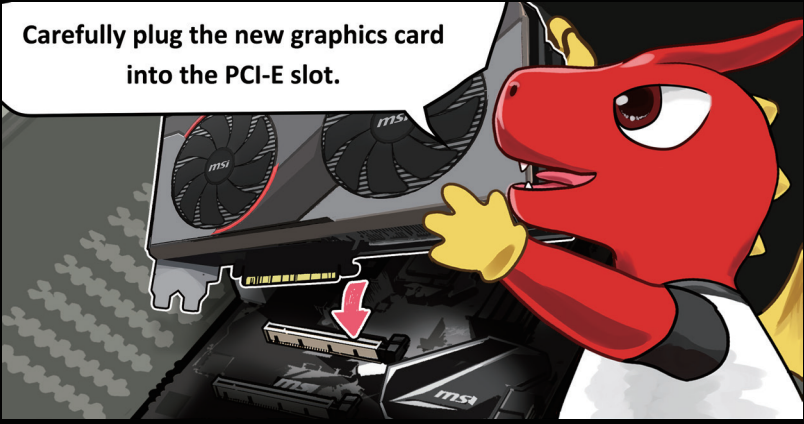
Make sure you release the small plastic latch on the end of the PCI-E slot on your motherboard to unlock your old graphics card. Now you can gently lift the old graphics card out of the case.



With the old graphics card removed, it's time to install your new graphics card!



Carefully plug the new graphics card into the PCI-E slot.

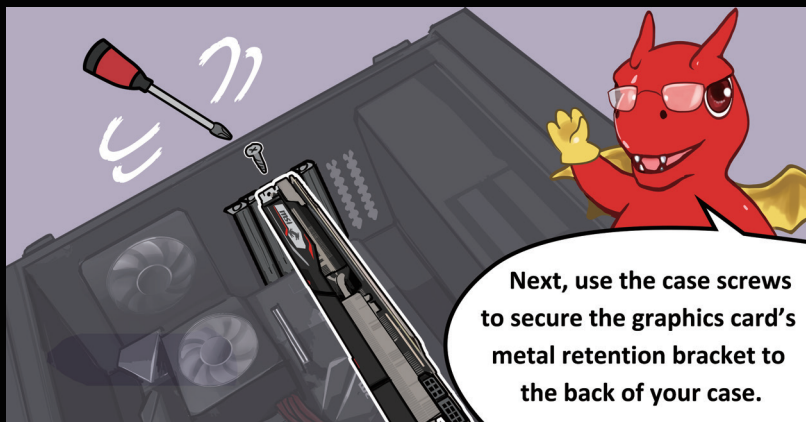
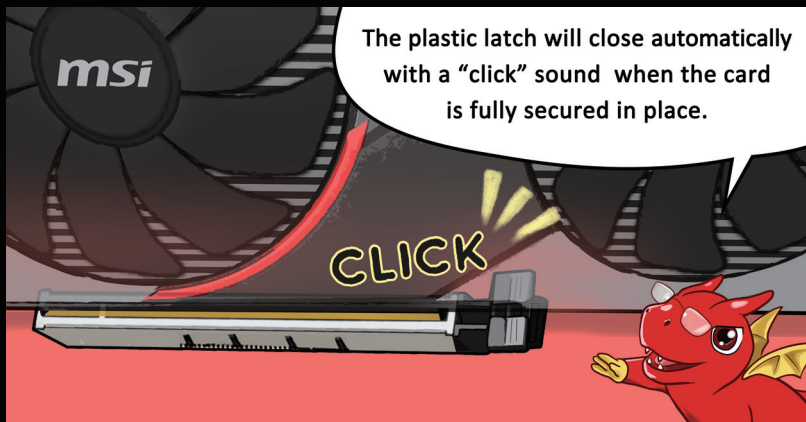




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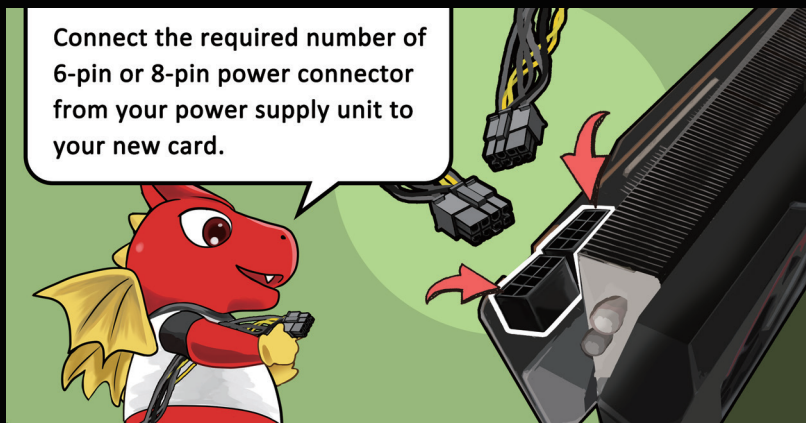
The plastic latch will close automatically with a “click” sound when the card is fully secured in place.

CLICK

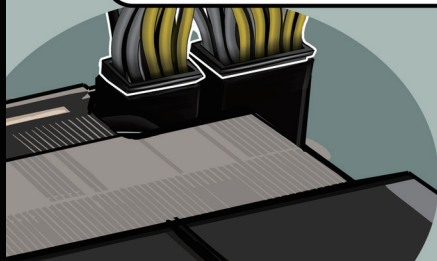


Next, use the case screws to secure the graphics card’s metal retention bracket to the back of your case.

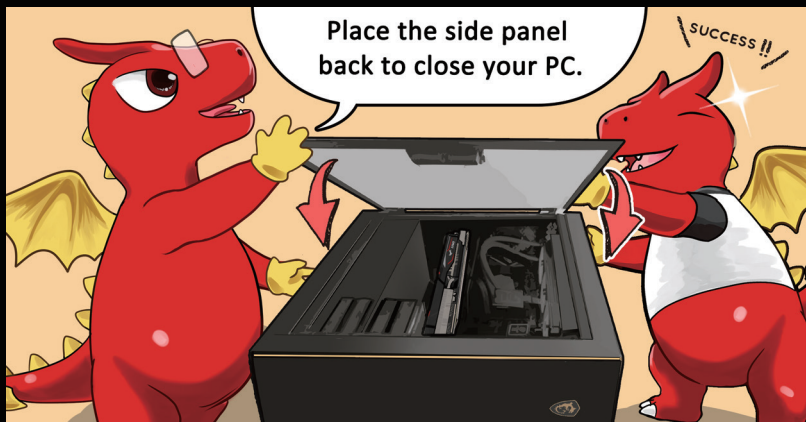
Connect the required number of 6-pin or 8-pin power connector from your power supply unit to your new card.



!! If your new graphics card doesn't have any power connectors, it will get all the power it needs from the motherboard.



Place the side panel back to close your PC.



SUCCESS !!

Please pay attention to each specific display output!



DVI-D



DP



HDMI



MINI-DP



USB Type-C



Make sure you plug it into the graphics card, not the motherboard!

Now you will have to plug your display cable into your new graphics card and turn on your computer.



Go to the MSI's website, download the latest driver and software for your operating system.



HAPPY GAMING!



MSI AFTERBURNER TUTORIAL



🔍 MSI AFTERBURNER

<https://www.msi.com/page/afterburner>

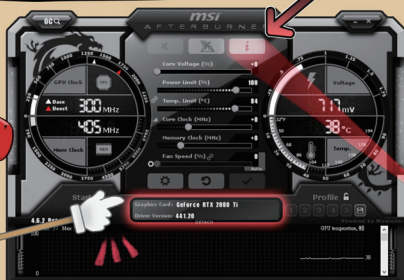


DOWNLOAD

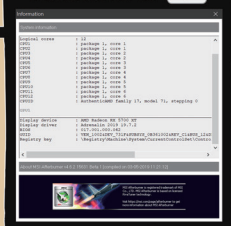


On the MSI website, you can download and install the latest version of MSI Afterburner.

MSI Afterburner gives you detailed control of your graphics card to ensure it performs to its maximum potential.



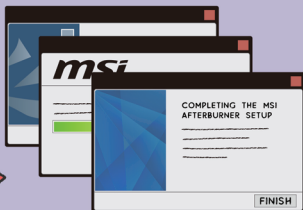
Screenshot of



Once the download is complete, unzip the **MSIAfterburnerSetup.zip** file and follow the installation process.



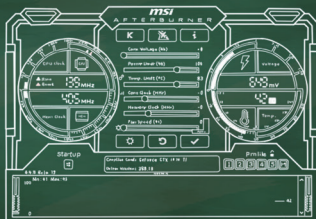
MSIAfterburnerSetup.zip



INSTALLATION PROCESS

During the installation you will also be asked if you want to install RivaTuner Statistics Server, you will need this program if you want to use the On-Screen Display feature.

Before getting a free performance boost with Afterburner, let me introduce the interface and a variety of configuration options!

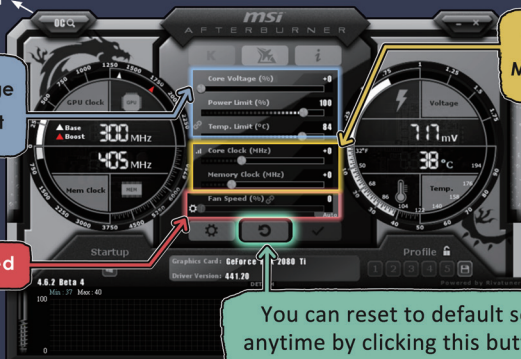


OC Scanner

Core Voltage
Power Limit

Core Clock
Memory Clock

Fan Speed

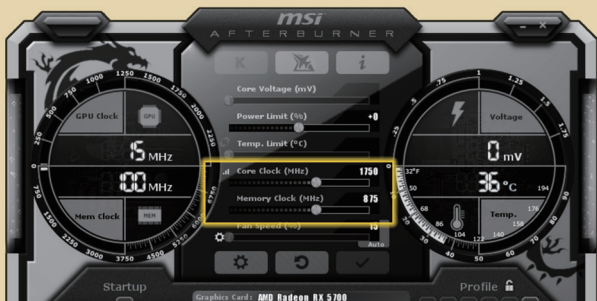


You can reset to default settings anytime by clicking this button.



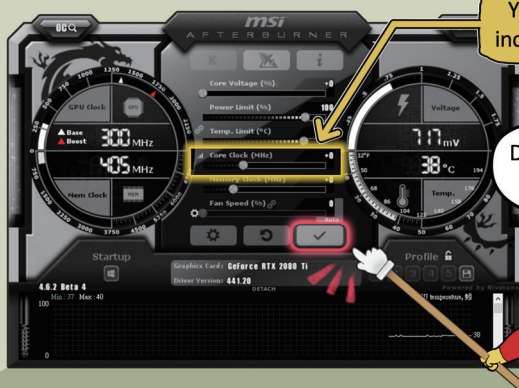
BALANCE

You can get the perfect balance between performance, temperature and ability by tweaking the clock frequency.



You can now slightly increase the clock speed

Don't forget to hit after each change.



Don't worry if your system crashes or a driver error occurs. Just reboot it and use a slower clock speed until you find the most stable performance.

All the build-in protection make the process painless and reasonably safe.



Click on the cogwheel



"Settings" button.

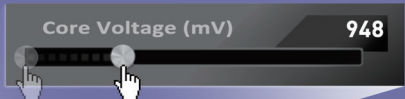


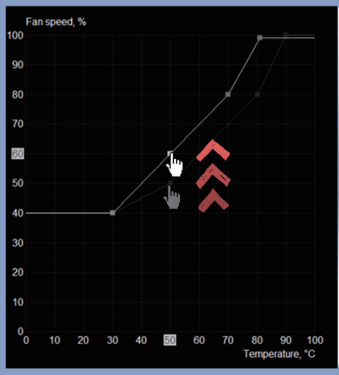
- Unlock voltage control
- Unlock voltage monitoring



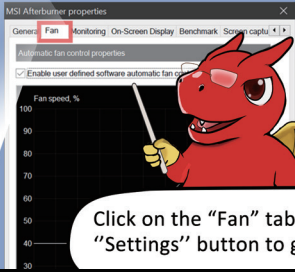
Under the "General" tab, click on "Unlock voltage control" and "Unlock voltage monitoring", this will allow you to increase the core voltage of your graphics card.

DRAG TO INCREASE THE VOLTAGE SLIGHTLY.





You can also modify your fan speed as well to make sure the cooling is at the optimum level when your graphics card heats up during overclocking.



Click on the "Fan" tab in cogwheel "Settings" to get started.

139

GPU 65 °C 1920 FPS 64 °C 81 °C 46 °C 1728 FPS 51 °C 1904 FPS
 NEW 1743 FPS 7000 FPS

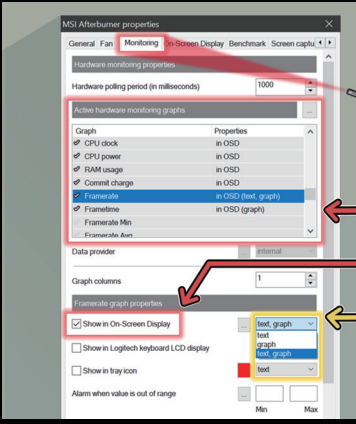
CPU 56 °C 20 °C 4395 FPS 39.9 °C
 RAM 5701 FPS 9106 FPS

03011 139 FPS 7.7 ms



Let's move onto the "On-Screen Display" which provides the real-time information

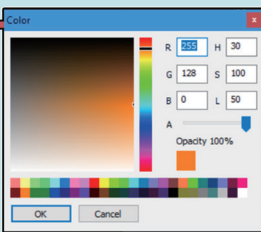
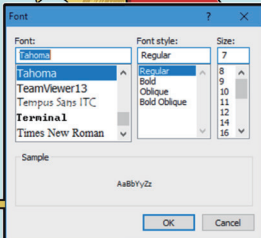
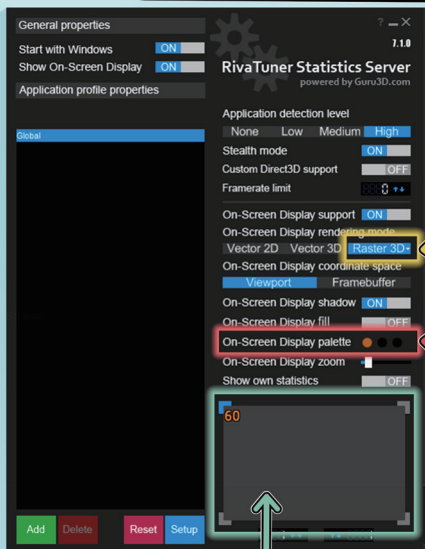
for you to keep a close eye on your system's performance while gaming.



You can find the "Monitoring" tab in Settings.

Tick all the properties you want in your OSD and also tick the "Show In On-Screen Display" checkbox for each item.

You can change the font, font-size and color by setting up the RTSS (RivaTuner Statistics Server).



You can also change the position here to adjust the vertical or horizontal height of the OSD.

Happy Overclocking!

Done!





條紋碼位置

Part No.G52-XXXX1JV-Q13