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Thank you for choosing the NVIDIA® GeForce® GTX 1060 6 GB Founders Edition graphics card.

The GeForce GTX 1060 graphics card is loaded with innovative new gaming technologies, making it the perfect choice for the latest high-definition games. Powered by NVIDIA Pascal™—the most advanced GPU architecture ever created—the GeForce GTX 1060 delivers brilliant performance that opens the door to virtual reality and beyond.

Plus, with NVIDIA’s GeForce Experience you can take advantage of NVIDIA’s tens of thousands of hours of testing to optimize your gameplay settings with one click.

About This Guide

This installation guide discusses the installation and operation of the NVIDIA GeForce GTX 1060 graphic card.

Note: It is important to register your product in order to receive online and phone support. Consult [http://www.nvidia.com/register](http://www.nvidia.com/register) for more information on registering your product.
Minimum System Requirements

> Motherboard
   PCI Express® or PCI Express 3.0-compliant motherboard with one dual-width x16 graphics slot.

> System Power Supply
   Minimum 400 W or greater system power supply with one 6-pin PCI Express supplementary power connectors.

> Operating System
   • Microsoft Windows 10, 32-bit or 64-bit
   • Microsoft Windows 8.1, 32-bit or 64-bit
   • Microsoft Windows 7, 32-bit or 64-bit
   • Linux, 32-bit or 64-bit
   • FreeBSD x86

> System Memory
   4 GB system memory (6 GB recommended)

> Internet connection for driver installation

> 350 MB of available hard disk space
Prior to unpacking your new NVIDIA® GeForce® GTX 1060 graphics card, it is important to make sure you meet all the system requirements listed on page 2 for a smooth installation.

Be sure to inspect each piece of equipment shipped in the packing box. If anything is missing or damaged, contact your reseller.
Equipment
The following equipment and documentation are included in the NVIDIA® GeForce® GTX 1060 6 GB Founders Edition graphics card box.

Quick Start Guide  Support Guide

One 6-pin power connector

DisplayPort connectors (Qty 3)

HDMI connector

DVI connector

NVIDIA GeForce GTX 1060 6 GB Graphics Card
Installing the NVIDIA® GeForce® GTX 1060 graphics card hardware involves opening up your computer. Follow all of the safety instructions provided here to ensure that there is no damage to you, your computer, or the graphics board.

Safety Instructions
To reduce the risk of fire, electric shock, or injury, always follow basic safety precautions.

- Remove power from your computer by disconnecting the AC main source before installation.
- Do not operate this product near water or when your hands or body are wet.
- Do not place this product on soft surfaces that could block the ventilation slots and cause overheating.
- Do not place this product near a heating register or radiator.
- Place this product securely on a stable surface. Serious damage to this product may result if it falls.
- Do not allow anything to rest on the power cord. Do not place this product where a person can step or trip on the power cord.

**Note:** All hardware must be installed prior to installation of the drivers.
Before You Begin

The NVIDIA® GeForce® GTX 1060 graphics card is a PCI Express 3.0 x16 graphics card. Your computer may already have a graphics card installed in the PCI Express slot. If so, you will need to remove that graphics card and replace it with the GeForce GTX 1060 graphics card.

If you do not have a graphics card, this means that your motherboard has on-board graphics (there is a graphics chip installed on your motherboard or integrated in the motherboard chipset). If this is the case, there is no action that needs to be taken before installing your new graphics card.

Installing the GeForce Graphics Card

Because there are so many different computer systems on the market, the procedure to install the GeForce GTX 1060 graphics card can vary from system to system. Use the following instructions as a guideline and consult the documentation for your computer system for any further information on your individual system.

**Note:** It is important that all power to the computer be disconnected before you install the graphics card.

Discharge your body's static electricity by touching a grounded surface before touching the graphics card. A grounded surface is the computer chassis, or some other surface you know to be grounded.

Use the following procedure to install the GeForce GTX 1060 graphics card into your computer system.

1. Turn off your computer and monitor and disconnect the power cord. Depending on your computer system, you may need to disconnect the cable going to the back of your system. Mark the cables so you can make sure you reconnect them properly.

2. Open your computer by removing the cover/side panel. Refer to your computer documentation from the original manufacturer for assistance.

3. Remove any existing graphics card (if there is one). Save hardware (such as screws and brackets) to use when installing the NVIDIA graphics card.

**ATTENTION:** If your system has been running for a period of time prior to opening the panels, it is very important that you wait until the graphics card in your system has cooled before taking the card out of the system. Graphics cards get very hot when they have been operating for any length of time.
4. Remove two adjacent slot covers if you do not have a graphics card installed.

   ![Image](image.png)

   Remove two adjacent slot covers that corresponds to the PCI-Express slot you are installing the GeForce GTX graphics card in.

   **Note:** The NVIDIA® GeForce® GTX 1060 card is double-wide and will require removing two slot covers.

5. Plug the GeForce GTX 1060 graphics card into the Primary PCI Express x16 slot on your motherboard. This is often the slot closest to the CPU but may be the second or third slot. Look for the slot labeled ×16. It will likely be the only PCI Express slot with a retention lever on the end of the slot or the one closest to the CPU.

   ![Image](image.png)

   Install your first GeForce GTX 1080 graphics card into the Primary PCI Express x16 slot.

   **Note:** It is recommended that you install the graphics card into the primary PCI Express x16 slot. If you install the graphics card into the secondary slot, your system may not recognize the graphics card and there will be nothing displayed on the monitor.

   Also note that on some motherboard SBIOS, the physical location of the primary slot can be configured when there are more than one PCI Express x16 slots.
6. Connect the 6-pin power connector from the power supply to the power connector on the top edge of the NVIDIA® GeForce® GTX 1060 graphics card. Note that the connector and socket on the graphics card have a unique shape and connect one way only.

7. Reinstall the cover on your computer and reconnect any cables that you removed earlier in the installation.
With the hardware installed, it is now time to install the NVIDIA® GeForce® Experience software and the graphics driver.

**GeForce Experience Software Installation**

1. Download and install GeForce Experience software.
   - Go to [http://www.geforce.com/geforce-experience/download](http://www.geforce.com/geforce-experience/download) and click Download Now.
   - Accept the NVIDIA software license agreement by selecting Agree and Continue. GeForce Experience software begins to install.
   - Select Close to finish the installation.

2. Optimize your installed games.
   - Open GeForce Experience and click Scan for Games and click OK to scan your installed games.
   - Click on Optimize All to optimize your game settings.
3 Install the latest drivers.
   • Open NVIDIA® GeForce® Experience and select the Drivers tab.
   • Select Download Driver. Your GPU driver begins to download.
   • Select Express Installation when the download finishes. GeForce Experience begins to install the graphics driver.

   **Note:** It may take several minutes for the installation to take place. Your screen may go blank for a few seconds one or more times during installation. This is normal.

   • Click CLOSE when the driver install completes.

Congratulations!
Your GeForce GTX 1060 graphics card is now ready to use!

   **Note:** If you have any questions about your NVIDIA product you can Chat live with NVIDIA Customer Care at [www.nvidia.com/support](http://www.nvidia.com/support) or call 1-800-797-6530.
Connecting HDTV via HDMI allows you to output both digital audio and video from your graphics card to an HDTV.

**Enabling Audio Over HDMI**

If you are connecting to your display over HDMI, you may need to set the HDMI output to be your default audio device.

1. Select Start ➔ Control Panel ➔ Sound.
2. On the Playback tab, select your HDMI display and select
3. Set Default.

Congratulations! Your NVIDIA GeForce graphics card is now ready to use!

For detailed instructions on using the NVIDIA Control Panel, consult the Control Panel User’s Guide found at [www.geforce.com/drivers](http://www.geforce.com/drivers) (select your driver, then click on Documentation to download the User’s Guide).
FEATURES

> NVIDIA® GeForce® Experience™: Ensures the best gaming experience, the day a game releases, by automatically updating your game-ready drivers. Plus, it allows users to optimize the game settings to their PC with a single click. GeForce Experience also includes NVIDIA ShadowPlay™ that lets you capture and share your favorite gaming moments.

> Multi-Frame sampled Anti-Aliasing (MFAA): MFAA delivers a 30% performance boost while maintaining smooth, high-quality edges by alternating sample calculations across each frame and each pixel.

> Dynamic Super Resolution (DSR): This innovative feature can deliver 4K fidelity to 1080p displays for exceptional detail and image quality.

> Voxel Global Illumination (VXGI): Part of the NVIDIA GameWorks™ library for developers, VXGI accelerates dynamic lighting effects for a truly immersive, cinematic experience.

> NVIDIA GameStream™: GeForce GPU support for NVIDIA PhysX technology, enabling a totally new class of physical gaming interaction for a more dynamic and realistic experience with GeForce.

> NVIDIA Ansel: Ansel is a powerful, easy-to-use game capture tool built in cooperation with leading game developers. Ansel lets you freeze time. You can compose your shots from any angle and adjust the image with post-process filters. You can capture at unbelievable resolutions, grab EXR images for full-spectrum color capture, and share your screenshots in 360° panoramas using your smartphone, PC, or VR headset.

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3 NVIDIA GameStream requires an NVIDIA GameStream-ready device
NVIDIA G-SYNC™-Ready\(^2\): NVIDIA G-SYNC monitors feature revolutionary NVIDIA technology that eliminates screen tearing while also reducing input lag. The result is a smoothest, fastest, and most responsive gaming monitor experience ever seen.

DirectX 12 Support: Support for the latest Microsoft DirectX API to enable next-generation gaming.

NVIDIA GPU Boost™ 3.0: Dynamically maximizes clock speeds based on workload and allows enthusiast-class controls such as temperature target and fan controls, extra over-voltage headroom, and optimizations for water-cooling solutions. This allows gamers to push performance to new levels.

NVIDIA Adaptive Vertical Sync: Dynamically enable vertical sync based on your current frame rates for the smoothest gaming experience.

NVIDIA CUDA™: Unlock the power of the GPU’s processor cores to accelerate demanding tasks such as video transcoding, physics simulation, ray tracing, and more, delivering incredible performance improvements over traditional CPUs.

DisplayPort 1.2 Certified, DisplayPort 1.3/1.4 Ready: Drive the latest DisplayPort panels with support for resolutions up to 4096x2160.

HDMI\(^3\): Support for HDMI includes 4K resolution at 60 Hz, GPU-accelerated Blu-ray 3D support, x.v.Color, HDMI Deep Color, and 7.1 digital surround sound.

Dual-link DVI: Drive flat-panel displays up to 2560x1600 resolution over a DVI connector.

PCI Express 3.0: This card is designed for the new PCI Express 3.0 bus architecture, offering the highest data transfer speeds for the most bandwidth-hungry games and 3D applications. It also maintains backwards compatibility with existing PCI Express motherboards for the broadest support.

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\(^2\) NVIDIA G-SYNC requires an NVIDIA G-SYNC-ready monitor

\(^3\) Blu-ray 3D playback requires the purchase of a compatible software player from CyberLink, ArcSoft, Corel, or Sonic. Upgrade your GPU to full 3D capability with NVIDIA 3DTV Play software, enabling 3D gaming, picture viewing and 3D web video streaming. See www.nvidia.com/3dtv for more details.
The NVIDIA GeForce GTX 1060 graphics card is compliant with the following regulations:

- Federal Communications Commission (FCC)
- Industry Canada (IC)
- Conformité Européenne (CE)
- Australian Communications and Media Authority (RCM)
- Voluntary Control Council for Interference (VCCI)
- Bureau of Standards Metrology and Inspection (BSMI)
- Korean Certification (KC)
- Underwriters Laboratories (UL, cUL)
- ISO 9241-307 Visual Display Ergonomics
UNITED STATES
Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

> Reorient or relocate the receiving antenna.
> Increase the separation between the equipment and receiver.
> Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
> Consult the dealer or an experienced radio/TV technician for help.
Compliances

Canada
Industry Canada (IC)
CAN ICES 39B0/NMB-39B0
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

EUROPEAN UNION
European Conformity; Conformité Européenne (CE)

This device complies with the following CE Directives:

> 2004/30/EU: EMC (Electromagnetic Compatibility) Directive
> 2011/65/EU: RoHS (Restriction of the use of certain hazardous substances in electrical and electronic equipment) Directive

AUSTRALIA & NEW ZEALAND
Australian Communications and Media Authority (RCM)

This product meets the applicable EMC requirements for Class B, I.T.E equipment and applicable radio equipment requirements.
JAPAN
Voluntary Control Council for Interference (VCCI)

This is a Class B product based on the standard of the VCCI Council.
If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

KOREA
KC (Korea Certification)

Class B Equipment (For Home Use Broadcasting & Communication Equipment)
This equipment is home use (Class B) electromagnetic wave suitability equipment and to be used mainly at home and it can be used in all areas.
TAIWAN COMPLIANCE
Bureau of Standards, Metrology and Inspection (BSMI)

This device complies with CNS 13438 (2006) Class B

SAFETY
Underwriters Laboratories (UL)
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HDMI
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OpenCL
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