TABLE OF CONTENTS

01 INTRODUCTION ........................................................................................................... 3
  About This Guide ........................................................................................................... 3
  System Specifications ..................................................................................................... 4

02 UNPACKING ................................................................................................................. 5
  Equipment ....................................................................................................................... 5

03 Hardware Installation ..................................................................................................... 7
  Safety Instructions ......................................................................................................... 7
  Before You Begin ........................................................................................................... 8
  Installing the GeForce Graphics Card ............................................................................. 8

04 SOFTWARE INSTALLATION ......................................................................................... 12
  GeForce Experience Software Installation ..................................................................... 12

05 CONFIGURING HDMI ................................................................................................. 14
  Enabling Audio Over HDMI .......................................................................................... 14

06 Compliances ................................................................................................................ 15
  United States ................................................................................................................ 16
  Canada ........................................................................................................................... 17
  European Union ............................................................................................................ 17
  Australia/New Zealand ................................................................................................ 18
  UK Conformity Assessed ............................................................................................. 18
  Japan ............................................................................................................................. 19
  Korea ............................................................................................................................ 21
  Taiwan .......................................................................................................................... 23
  China ............................................................................................................................. 25
  India ............................................................................................................................... 26
  Ukraine .......................................................................................................................... 27
  Morocco ........................................................................................................................ 27
Thank you for choosing the NVIDIA® GeForce RTX™ 3060 Ti graphics card.

The GeForce RTX™ 3060 Ti lets you take on the latest games using the power of Ampere—NVIDIA’s 2nd generation RTX architecture. Get incredible performance with enhanced Ray Tracing Cores and Tensor Cores, new streaming multiprocessors, and high-speed G6 memory.

About This Guide

This installation guide discusses the installation and operation of the NVIDIA GeForce RTX 3060 Ti graphic card.
System Specifications

> **Motherboard**
 PCI Express® graphics slot required with clearance space for an 9.5” (L) x 4.4” (W) x 2-slot card.

> **System Power Supply**
 600 W system power supply\(^1\) with one PCIE 8-pin Power Connector required.

> **Operating System**
  - Microsoft® Windows® 10, 64-bit, build 2004, recommended
  - Linux® 64-bit

> **Driver Installation**
  - 2 GB of available hard disk space required for driver installation
  - Internet connection

\(^1\) A lower power rating may work depending on system configuration. Please check with PSU vendor
Prior to unpacking your new NVIDIA GeForce RTX 3060 Ti graphics card, it is important to make sure you meet all the system specifications listed on page 4 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 GeForce RTX 3060 Ti graphics card box.

- Quick Start Guide
- Support Guide
- NVIDIA Single PCIe 8-pin Power Dongle
GeForce RTX 3060 Ti Graphics Card

12-pin Power Connector

DisplayPort Connectors (Qty 3)

HDMI 2.1 Connector (High-Definition Multimedia Interface) Connector
Installing the NVIDIA GeForce graphics card hardware involves opening your computer. RTX 3060 Ti Follow all 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 install this card with I/O downward.
> 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.
Before You Begin

The GeForce RTX 3060 Ti graphics card is a PCI Express 4.0 ×16 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 RTX 3060 Ti 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.

Use the RTX 3060 Ti graphics card with UL Listed ITE Personal Computer (PC)/Server.

Installing the GeForce Graphics Card

Because there are so many different computer systems on the market, the procedure to install the GeForce RTX 3060 Ti 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.

ATTENTION: If your system has been running for a while 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.
Use the following procedure to install the GeForce RTX 3060 Ti 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.

4. Remove two adjacent slot covers if you do not have a graphics card installed.

![Diagram showing removal of two adjacent slot covers.]

Remove two adjacent slot covers that corresponds to the PCI-Express slot you are installing the GeForce RTX 3060 Ti graphics card in.

**Note:** The GeForce RTX 3060 Ti card is double-wide and requires removing two slot covers.

5. Plug the GeForce RTX 3060 Ti 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 x16. 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.
Install your GeForce RTX 3060 Ti graphics card into the Primary PCI Express x16 slot (the Primary slot is the one closest to the CPU).

**ATTENTION:** This GPU card should not be installed with the I/O brackets facing downwards.

6. Connect one 8-pin power connector from the power supply to the NVIDIA Single PCIe 8-pin Power Dongle.

7. Connect the 12-pin connector from the NVIDIA Single PCIe Power Dongle to the top edge of the GeForce RTX 3060 Ti graphics card.

8. Reinstall the cover on your computer.

9. Reconnect the power cord to the PC.
10 Connect the display[s] to the graphics card.

- DisplayPort 1.4a Connectors (Qty 3)
- HDMI 2.1 Connector (High-Definition Multimedia Interface)
With the hardware installed, it is now time to install the NVIDIA GeForce Experience™ software and the graphics driver.

**GeForce Experience Software Installation**

1. 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 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 RTX 3060 Ti graphics card is now ready to use!
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 GeForce graphics card(s) 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 Control Panel User’s Guide to download the User’s Guide).
The NVIDIA GeForce RTX 3060 Ti graphics card (Compliance Model: PG142) is compliant with the following regulations:

> UNITED STATES Federal Communications Commission (FCC)
  - Federal Communications Commission (FCC)
  - Underwriters Laboratories (UL)
> Innovation, Science and Economic Development Canada (ISED)
> European Conformity; Conformité Européenne (CE)
> Australian Communications and Media Authority (RCM)
> UK Conformity Assessed (UKCA)
> Voluntary Control Council for Interference (VCCI)
> Korea Certification (KC)
> Bureau of Standards, Metrology & Inspection (BSMI)
> Ukraine Technical Regulations (UA TR)
> Moroccan regulatory framework (CMIM)
United States
Federal Communications Commission (FCC)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including any interference that may cause undesired operation of the device.

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.

FCC Warning: The FCC requires that you be notified that any changes or modifications to this device not expressly approved by the manufacturer could void the user’s authority to operate the equipment.
Canada

Innovation, Science and Economic Development Canada (ISED)
CAN ICES-3(B)/NMB-3(B)
This device complies with Innovation, Science and Economic Development Canada (ISED) license-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

European Union

European Conformity; Conformité Européenne (CE)

Santa Clara, California, USA
This device bears the CE mark accordance with Directive 2014/30/EU.

This device complies with the following Directives:
> EMC Directive 2014/30/EU
> RoHS Directive 2011/65/EU for hazardous substances
A copy of the Declaration of Conformity to the essential requirements may be obtained directly from NVIDIA GmbH [Bavaria Towers – Blue Tower, Einsteinstrasse 172, D-81677 Munich Germany]
Australia/New Zealand

Australian Communications and Media Authority

This product meets the applicable EMC requirements for Class B, I.T.E equipment and applicable radio equipment requirements

UK Conformity Assessed

Great Britain (England, Wales, and Scotland)

This device complies with the following Regulations:

> SI 2016/1091: Electromagnetic Compatibility (EMC)
> SI 2012/3032: The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (As Amended)

A copy of the Declaration of Conformity to the essential requirements may be obtained directly from NVIDIA Ltd. (100 Brook Drive, 3rd Floor Green Park, Reading RG2 6UJ, United Kingdom).
Japan RoHS Material Content Declaration

日本工業規格 JIS C 0950:2008 により、2006年7月1日以降に販売される特定分野の電気および電子機器について、製造者による含有物質の表示が義務付けられます。

機器名称：グラフィックカード

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<tr>
<td>機械部品</td>
<td>例外項目</td>
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<td>ケーブル/コネクター</td>
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<td>フラックス、クリームはんだ、ラベル、その他消耗品</td>
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注:
1. 「0」は、特定化学物質の含有率が日本工業規格 JIS C 0950:2008 に記載されている含有率基準値より
低いことを示します。

2. 「除外項目」は、特定化学物質が含有マークの除外項目に該当するため、特定化学物質について、日本工業規格 JIS C 0950:2008 に基づく含有マークの表示が不要であることを示します。

3. 「0.1wt%超」または「0.01wt%超」は、特定化学物質の含有率が日本工業規格 JIS C 0950:2008 に記載されている含有率基準値を超えていることを示します。

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Notes:
1. "0" indicates that the level of the specified chemical substance is less than the threshold level specified in the standard, JIS C 0950:2008.
2. "Exempt" indicates that the specified chemical substance is exempt from marking and it is not required to display the marking for that specified chemical substance per the standard, JIS C 0950:2008.
3. "Exceeding 0.1wt%" or "Exceeding 0.01wt%" is entered in the table if the level of the specified chemical substance exceeds the threshold level specified in the standard, JIS C 0950:2008.
**Korea Certification (KC)**

| 등급 기기 | 이 기기는 가정용(8급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다. |

**Korea RoHS Material Content Declaration**

<table>
<thead>
<tr>
<th>문 준비</th>
<th>상호 : 앤비디아홍콩홀딩즈리미티드(영업소)</th>
<th>법인등록번호</th>
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<td>대표자성명</td>
<td>카렌테레시엔드스</td>
<td>사업자등록번호 : 120-84-06711</td>
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<tr>
<td>주소</td>
<td>서울특별시 강남구 영동대로 511, 2101호 (삼성동, 코엑스무역타워)</td>
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제품 내용

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<tr>
<th>제품의 종류</th>
<th>개인용 컴퓨터</th>
<th>제품명(규격)</th>
<th>그래픽카드</th>
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<td>세부모델명(번호)</td>
<td>해당없음</td>
<td>제품출시일</td>
<td>해당없음</td>
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<tr>
<td>제품의 중량</td>
<td>해당없음</td>
<td>제조, 수입업자</td>
<td>앤비디아</td>
</tr>
</tbody>
</table>

엔비디아의 그래픽 카드제품은 전기 전자제품 및 자동차의 자원순환에 관한 법률 시행령 제11조 제1항에 의거한 법 시행규칙 제3조에 따른 유해물질해당 기준을 확인 및 평가한 결과, 이를 준수하였음을 공표합니다.

구비서류 : 없음

작성방법

1. 제품의 종류는 "전기전자제품 및 자동차의 자원순환에 관한 법률 시행령" 제8조 제1항 및 제2항에 따른 품목별로 구분하여 기재합니다.
2. 전기 전자 제품의 경우 모델명(번호), 자동차의 경우, 제조관리번호를 기재합니다.
3. 해당제품의 제조업자 또는 수입업자를 기재합니다.
Confirmation and Evaluation Form Concerning the Adherence to Acceptable Standards of Hazardous Materials Contained in Products

<table>
<thead>
<tr>
<th>Statement Prepared by</th>
<th>Company Name: NVIDIA HongKong Holding Ltd.Korea branch</th>
<th>Corporate Identification Number: 110181-0036373</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Company Representative:</td>
<td>Karen Theresa Burns</td>
<td>Business Registration Number: 120-84-06711</td>
</tr>
<tr>
<td>Address</td>
<td>2788 San Tomas Expressway, Santa Clara, CA 95051</td>
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<table>
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<tr>
<th>Product Information</th>
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<td>Product Category: N/A</td>
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<td>Detailed Product Model Name (Number): N/A</td>
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<td>Weight of Product: N/A</td>
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</table>

This form is publicly certify that NVIDIA Company has undergone the confirmation and evaluation procedures for the acceptable amounts of hazardous materials contained in graphic card according to the regulations stipulated in Article 3 of the ‘Status on the Recycling of Electrical and Electronic Products, and Automobiles’ and that company has graphic card adhered to the Enforcement Regulations of Article 11, Item 1 of the statute.

Attachment: None

*Preparing the Form

① Please indicate the product category according to the categories listed in Article 8, Items 1 and 2 of the ‘Enforcement Ordinance of the Statute on the Recycling of Electrical, Electronic and Automobile Materials’

② For electrical and electronic products, please indicate the Model Name [and number]. For automobiles, please indicate the Vehicle Identification Number.

③ Please indicate the name of manufacturer and/or importer of the product.
### Taiwan RoHS Material Content Declaration

**設備名稱：繪圖卡  
Equipment Name: Graphic Card**

<table>
<thead>
<tr>
<th>單元 Parts</th>
<th>限用物質及其化學符號 Restricted substances and its chemical symbols</th>
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</thead>
<tbody>
<tr>
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<td>鉛 (Pb)</td>
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<tr>
<td>PCB 板 PCB</td>
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<td>被動電子零件 Passive components</td>
<td>-</td>
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<tr>
<td>主動電子零件 Active components</td>
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<td>内存 Memory</td>
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<td>結構件以及風扇 Mechanical parts and Fan</td>
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<td>Flux, Solder Paste, label and other consumable materials</td>
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備考 1: O: 系指該限用物質未超出百分比含量基準值
Note 1:  O: indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.
備考 2: -: 系指該項限用物質為排外項目。
Note 2:  -: indicates that the restricted substance corresponds to the exemption.

此表中所有名稱中含 “-” 的部件均符合歐盟 RoHS 立法。
All parts named in this table with an “-” are in compliance with the European Union's RoHS Legislation.

注: 環保使用期限的參考標識取決與產品正常工作的溫度和濕度等條件
Note: The referenced Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity.
<table>
<thead>
<tr>
<th>部件名称</th>
<th>有害物质</th>
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<th>汞 (Hg)</th>
<th>镉 (Cd)</th>
<th>六价铬 (Cr(VI))</th>
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<th>多溴二苯醚 (PBDE)</th>
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本表格依据 SJ/T 11364-2014 的规定编制
The table according to SJ/T 11364
O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下。
O: Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in GB/T 26572.
X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 标准规定的限量要求。
X: Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in GB/T 26572.
此表中所有名称中含 “X” 的部件均符合欧盟 RoHS 立法。
All parts named in this table with an “X” are in compliance with the European Union’s RoHS Legislation.

注：环保使用期限的参考标识取决于产品正常工作的温度和湿度等条件

Note: The referenced Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity.

## India

### India RoHS Material Content Declaration

This product, as well as its related consumables and spares, complies with the reduction in hazardous substances provisions of the “India E-waste (Management and Handling) Rule 2016”. It does not contain lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for where allowed pursuant to the exemptions set in Schedule 2 of the Rule.

### India RoHS Self-Declaration Form

(as per E-Waste (Management) Rules, 2016)

<table>
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<th>Sr. No.</th>
<th>Product Category &amp; Code (as Per Schedule I of E-Waste (M) Rules, 2016)</th>
<th>Product Name</th>
<th>Model No.</th>
<th>Product Weight (g)</th>
<th>Date of placing on market</th>
<th>Compliance with RoHS Yes/No</th>
<th>RoHS Information provided on product info booklet Yes/No</th>
<th>In case Product is imported from other country, name of the country manufactured</th>
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<tbody>
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<td>i.</td>
<td>TEW2 (Graphic Card)</td>
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<td>N/A</td>
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<td>China</td>
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Ukraine

Ukraine Technical Regulations (UA TR)

Цей пристрій відповідає наступним технічним регламентам:

> Технічного регламенту з електромагнітної сумісності обладнання
> Технічного регламенту обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні

Morocco

Moroccan Regulatory Framework (CMIM)
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