

GeForce RTX 3080

User Guide

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01 INTRODUCTION

Thank you for choosing the NVIDIA® GeForce RTX™ 3080 graphics card.

The GeForce RTX 3080 delivers the ultra performance that gamers crave, powered by Ampere—NVIDIA's 2nd generation RTX architecture. It is built with enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and superfast G6X memory for an amazing gaming experience.

About This Guide

This installation guide discusses the installation and operation of the NVIDIA GeForce RTX 3080 graphic card.

System Specifications

Motherboard

PCI Express[®] graphics slot required with clearance space for an 11.2" (L) x 4.4" (W) x 2-slot card.

> System Power Supply

750 W system power supply¹ with two PCIE 8-pin Power Connectors 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

02 UNPACKING

Prior to unpacking your new NVIDIA GeForce RTX 3080 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

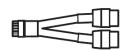
The following equipment and documentation are included in the GeForce RTX 3080 graphics card box.



Quick Start Guide

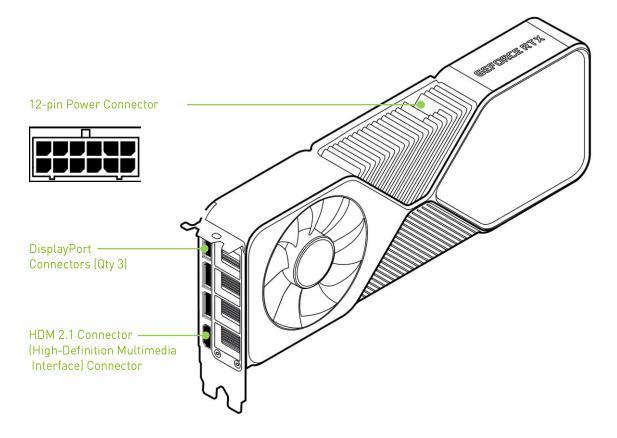


Support Guide



NVIDIA Dual PCIe 12-pin Power Dongle

GeForce RTX 3080 Graphics Card



03 HARDWARE INSTALLATION

Installing the NVIDIA GeForce graphics card hardware involves opening your computer. RTX 3080 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.



Note: All hardware must be installed prior to installation of the drivers.

- 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 3080 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 3080 graphics card.

If you do not have a graphics card, this means that your motherboard has onboard 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 3080 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 3080 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.

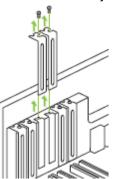
Discharge your body's static electricity by touching a grounded surface before touching the graphics card. A grounded surface is the computer chassis, or some other surface you know to be grounded.



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 3080 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.

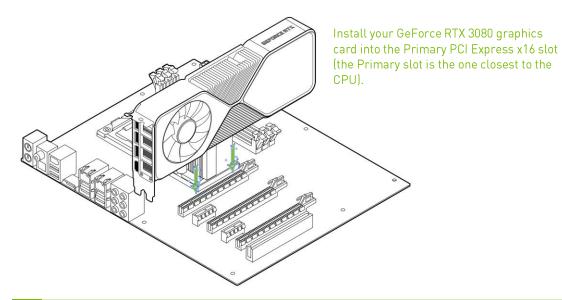


Remove two adjacent slot covers that corresponds to the PCI-Express slot you are installing the GeForce RTX 3080 graphics card in.



Note: The GeForce RTX 3080 card is double-wide and requires removing two slot covers.

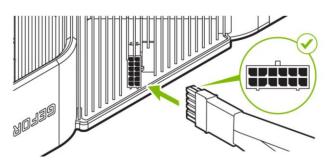
Plug the GeForce RTX 3080 graphics card into the Primary PCI Express x16 slot on your motherboard. This is often the slot closest to the CPU but may be the second or third slot. Look for the slot labeled ×16. It will likely be the only PCI Express slot with a retention lever on the end of the slot or the one closest to the CPU.



- **ATTENTION:** This GPU card should not be installed with the I/O brackets facing downwards.
- 6 Connect two 8-pin power connectors from the power supply to the NVIDIA Dual PCIe Power Dongle 8-pin connectors.



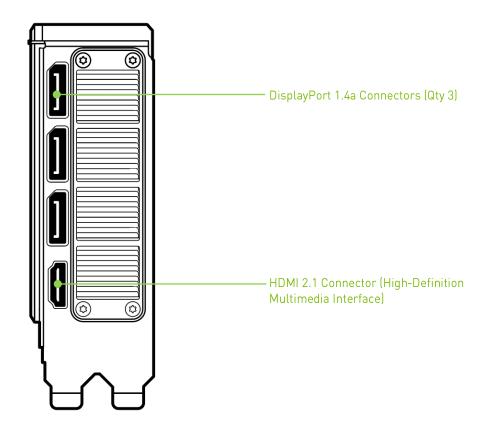
7 Connect the 12-pin connector from the NVIDIA Dual PCIe Power Dongle to the top edge of the GeForce RTX 3080 graphics card.



Connect the 12-pin NVIDIA Dual PCIe Power Dongle to the top of the GeForce 3080 RTX 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.



04 SOFTWARE INSTALLATION

With the hardware installed, it is now time to install the NVIDIA GeForce ExperienceTM software and the graphics driver.

GeForce Experience Software Installation

- 1 Install GeForce Experience software.
 - Go to 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 3080 graphics card is now ready to use!

05 CONFIGURING HDMI

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 <u>www.geforce.com/drivers</u> (select your driver, then click on **Control Panel User's Guide** to download the User's Guide).

06 COMPLIANCES

The NVIDIA GeForce RTX 3080 graphics card (Compliance Model: PG133A) 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.

Underwriters Laboratories (UL)



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)



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 AND 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

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

Voluntary Control Council for Interference (VCCI)



この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的 としていますが、この装置がラジオやテレビジョン受信機に近接して使用され ると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI - B

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

主な分類	特定化学物質記号								
上次 刀 敖	Pb	Hg	Cd	Cr(VI)	PBB	PBDE			
PCB ボード	0	0	0	0	0	0			
パッシブ電子部品	除外項目	0	0	0	0	0			
アクティブ電子部品	除外項目	0	0	0	0	0			
プロセッサー	0	0	0	0	0	0			
メモリ	0	0	0	0	0	0			
機械部品	除外項目	0	0	0	0	0			
ケーブル/コネクター	除外項目	0	0	0	0	0			
はんだ付け材料	0	0	0	0	0	0			
フラックス、クリームはん だ、ラベル、その他消耗品	0	0	0	0	0	0			

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。

A Japanese regulatory requirement, defined by specification JIS C 0950: 2008, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006

Product Model Number: Graphic card

Major Classification	Symbols of Specified Chemical Substance							
Major Classification	Pb	Hg	Cd	Cr(VI)	PBB	PBDE		
PCB	0	0	0	0	0	0		
Passive components	Exempt	0	0	0	0	0		
Active components	Exempt	0	0	0	0	0		
Processor	0	0	0	0	0	0		
Memory	0	0	0	0	0	0		
Mechanicals	Exempt	0	0	0	0	0		
Cables/Connector	Exempt	0	0	0	0	0		
Soldering material	0	0	0	0	0	0		
Flux, Solder Paste, label, and other consumable materials	0	0	0	0	0	0		

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

Korea Certification (KC)



R-R-NVA-PG133A

B 급 기기	이 기기는 가정용(B 급) 전자파적합기기로서 주
	로 가정에서 사용하는 것을 목적으로 하며, 모
	든 지역에서 사용할 수 있습니다.

Korea RoHS Material Content Declaration

주소 서울특별시 강남구 영동대로 511, 2101 호 (삼성동, 코엑스무역타워)

제품의 종류	개인용 컴퓨터	제품명(규격)	그래픽카드
세부모델명(번호):	해당없음	제품출시일	해당없음
제품의 중량	해당없음	제조, 수입업자	앤비디아

제품 내용

엔비디아의 그래픽 카드제품은 전기 전자제품 및 자동차의 자원순환에 관한 법률 시행령 제 11 조 제 1 항에 의거한 법 시행행규칙 제 3 조에에따른 유해물질함유 기준을 확인 및 평가한 결과, 이를 준수하였음을 공표합니다.

구비서류: 없음

작성방법

- ① 제품의 종류는 "전기.전자제품 및 자동차의 자원순환에관한 법률 시행령" 제 8 조 제 1 항 및 제 2 항에 따른 품목별로 구분하여 기재합니다.
- ② 전기 전자 제품의 경우 모델명 (번호), 자동차의 경우, 제원관리번호를 기재합니다.
- ③ 해당제품의 제조업자 또는 수입업자를 기재합니다.

Confirmation and Evaluation Form Concerning the Adherence to Acceptable Standards of Hazardous Materials Contained in Products									
Statement	Company Name:		NVIDIA HongKong Holding Ltd.Korea branch		Corporate Identification Number:		110181-0036373		
by Name of Company Representative:			Karen Theresa Burns		Business Registration Number:		120-84-06711		
	Address		2788 Sa	n Tomas Expres	, CA 95051				
			Pro	oduct Informatio	n				
Product Cat	egory:	N/A		Name of Prod	of Product:				
	Detailed Product Model Name (Number):			Date of first market release:		N/A			
Weight of Product: N/		N/A	Manufacture		ufacturer and/or Importer:		NVIDIA Corporation		

This for 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

Bureau of Standards, Metrology & Inspection (BSMI)



Taiwan RoHS Material Content Declaration

Declaration of the pre		含有情况標 lition of the		d Substance	es Marking		
設備名稱:繪圖卡 Equipment Name: Graphic Card							
單元		Restricted		f及其化學符 s and its ch	守號 nemical symb	ools	
Parts	铅 (Pb)	汞 (Hg)	镉 (Cd)	六價铬 (Cr(VI))	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)	
PCB 板 PCB	0	0	0	0	0	0	
被動電子零件 Passive components	-	0	0	0	0	0	
主動電子零件 Active components	-	0	0	0	0	0	
處理器 Processor	0	0	0	0	0	0	
單元	限用物質及其化學符號 Restricted substances and its chemical symbols						
Parts	铅 (Pb)	汞 (Hg)	镉 (Cd)	六價铬 (Cr(VI))	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)	
內存 Memory	0	0	0	0	0	0	
結構件以及風扇 Mechanical parts and Fan	-	0	0	0	0	0	
線材/連接器 Cables/Connectors	-	0	0	0	0	0	
焊接金屬 Soldering material	0	0	0	0	0	0	

助焊劑,錫膏,標籤及耗材 Flux, Solder Paste, label and other consumable materials	0	0	0	0	0	0
-----------------------------------------------------------------------------	---	---	---	---	---	---

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: -: 系指該项限用物質为排外项目。

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决與產品正常工作的温度和濕度等條件

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

CHINA

China RoHS Material Content Declaration



产品中有害物质的名称及含量

The Table of Hazardous Substances and their Content 根据中国《电器电子产品有害物质限制使用管理办法》

as required by Management Methods for Restricted Use of Hazardous Substances in Electrical and Electronic Products

		11000000							
	有害物质								
部件名称	Hazardous Substances								
Parts	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚			
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)			
PCB 板	0	0	0	0	0	О			
PCB				Ū					
被动电子零件	Х	0	0	0	О	0			
Passive components	^			Ŭ	Ŭ	Ü			
主动电子零件	V				0	0			
Active components	X	0	0	0	0	0			
处理器	_	_	_	_	_	_			
Processor	0	0	0	0	0	0			
		_	_	_	_	_			
Mechanical parts and Fan	Х	0	0	0	0	0			
线材/连接器	Х	0	0	0	0	0			
Cables/Connectors	۸	0	U	0	U	U			
焊接金属									
Soldering material	0	0	0	0	0	0			
助焊剂,锡膏,标签及耗材						0			
Flux, Solder Paste, label and other consumable materials	0	0	0	0	0	0			
				1		l			

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)									
Sr. No.										
i.	TEW2 (Graphic Card)	Graphic Card	N/A	N/A	N/A	Yes	Yes	China		

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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