



# **NVIDIA IGX Orin Developer Kit Regulatory Compliance and Safety**

Application Note

# Document History

DA-11457-002\_v0.1

Version	Date	Description of Change
0.1	July 25, 2023	Preliminary release. Advance Information. Subject to change.

# Table of Contents

- Overview ..... 1
  - Attachments..... 2
- Compliance Certifications..... 1
  - Compliance Certifications ..... 1
  - Compliance Regulations..... 2
    - United States..... 3
    - cTUVus..... 4
    - Canada..... 5
    - European Union..... 7
    - Great Britain (England, Wales, and Scotland) ..... 8
    - Australia and New Zealand..... 9
    - Japan..... 10
    - China ..... 14
    - South Korea..... 16
    - Taiwan..... 19
    - India ..... 22
    - Israel..... 23
    - Bluetooth..... 24

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# Overview

This document lists regulations with which the NVIDIA IGX Orin™ Developer Kit (Compliance Model: P3840) is compliant.

Export Control Classification Number: 4A994.L

Harmonized Tariff Schedule Code: 8471.50

# Attachments

Attached to this PDF are certifications (PDF documents) listed in Table 1.

To access the attached files:

1. Click on the Attachment icon on the left-hand toolbar on this PDF (using Adobe Acrobat Reader or Adobe Acrobat).
2. Select each file.
3. Use the Toolbar option (Open, Save) to retrieve the file.

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# Compliance Certifications

## Compliance Certifications

The files listed in the table below, included as attachments to this PDF document, are compliance certifications, which are required for the sale of the NVIDIA IGX Orin Developer Kit.

**Table 1. Compliance Certifications**

Regulatory Region	Regulatory Body	Certification Type	Attachment File name
Australia	RCM	EMC/RF	P3840_Australia_NZS_Cert.PDF
International	Bluetooth SIG	Bluetooth	P3840_BT-SIG_Listing.pdf
	IEC	Safety	P3840_CB_IEC62368-1_2014_Cert.pdf
			P3840_CB_IEC62368-1_2018_Cert.pdf
		Similarity	P3840_DoS.pdf
China	CCC	EMC/Safety	P3840_China_CCC_Cert.pdf
	SRRC	RF	P3840_China_SRRC_Cert.pdf
US / Canada	TUV	Safety	P3840_cTUVus_Cert.pdf
	FCC/ICES	EMC/RF	P3840_NA_Cert.pdf
EU	CE	EMC/RF/Safety	P3840_EU_Cert.pdf
India	BIS	Safety	P3840_India_BIS_Cert.pdf
	WPC	RF	P3840_India_WPC_Cert.pdf
Israel	MOD	Encryption	P3840_Israel_MOD_license.pdf
	MOE	Ministry of Economy	P3840_Israel_MOE_Exemption_Letter.pdf
Japan	VCCI	EMC	P3840_Japan_Cert.pdf
South Korea	KC	EMC/RF	P3840_Korea_Cert.pdf
Taiwan	BSMI	EMC/Safety	P3840_Taiwan_Cert.pdf
UK	UKCA	EMC/RF/Safety	P3840_UK_Cert.pdf

# Compliance Regulations

The NVIDIA IGX Orin Developer Kit (Compliance Model: P3840) is compliant with the following regulations:

- > United States and Canada
  - Federal Communications Commission (FCC)
  - TUV (TUV)
  - Innovation, Science and Economic Development Canada (ISED)
- > European Union (excludes Switzerland), Hong Kong, Turkey
  - European Conformity; Conformité Européenne (CE)
- > United Kingdom
  - UK Conformity Assessed (UKCA)
- > Japan
  - Voluntary Control Council for Interference (VCCI)
  - Radio/ Telecommunications Certification (MIC)
- > South Korea
  - Korea Certification (KC)
- > Australia/New Zealand
  - Australian Communications and Media Authority (ACMA)
- > China
  - China Compulsory Certificate (CCC)
  - State Radio Regulation of China (SRRC)
- > Taiwan
  - Bureau of Standards, Metrology & Inspection (BSMI)
  - National Communications Commission (NCC)
- > India
  - Bureau of Indian Standards (BIS)
  - Wireless Planning & Coordination Wing (WPC)
- > IEC CB Scheme
- > Bluetooth® SIG

# United States

Federal Communications Commission (FCC)



Contains FCC ID: TX2-RTL8822CE

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. Only those antennas with same type and lesser/equal gain filed under this FCC ID number can be used with this device.

RF Radiation Exposure Statement:

This equipment has been tested and complies with FCC RF radiation exposure limits set forth for an uncontrolled environment when used with the NVIDIA accessories supplied or designated for this product. The use of any other accessories may not ensure compliance with FCC RF exposure limits. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

# cTUVus

cTUVus recognized product logo for NVIDIA IGX Orin Developer Kit, Model: P3840



# Canada

Innovation, Science and Economic Development Canada (IC)

Contains IC: 6317A-RTL8822CE

CAN ICES-3(B)/NMB-3(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(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.

L'émetteur/récepteur exempt de licence contenu dans 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.

**Caution:** operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems

Be advised that high-power radars are allocated as primary users of the bands 5250-5350 MHz and 5650-5850 MHz. These radars could cause interference and/or damage to LE-LAN devices

**Attention:** les dispositifs fonctionnant dans la bande de 5 150 à 5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux

Être informé, radars à haute puissance sont désignés principaux utilisateurs de bandes 5250-à 5350 MHz et de 5650 à 5850 MHz, et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs de RL-EL

RF Radiation Exposure Statement:

NVIDIA IGX Orin Developer Kit has been tested and complies with ISED RSS 102 RF radiation exposure limits set forth for an uncontrolled environment when used with the NVIDIA accessories supplied or designated for this product. To satisfy ISED exposure requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and persons during device operation. The use of any other accessories may not ensure compliance with ISED RSS 102 RF exposure guidelines.

Déclaration d'exposition aux radiations:

NVIDIA IGX Orin Developer Kit a été testée conformément aux normes d'exposition d'émission RF de la ISED RSS 102 pour un environnement non contrôlé lors d'utilisation avec les accessoires fournis ou recommandés par NVIDIA. Pour satisfaire aux exigences d'exposition ISED, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et des personnes pendant le fonctionnement de l'appareil. L'utilisation d'accessoires autres que ceux recommandés par NVIDIA ne garantit pas la compatibilité avec les normes d'émission RF de la ISED RSS 102.

# European Union

European Conformity; Conformité Européenne (CE)



	BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR
	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT
	RO	SI	SK	FI	SE	UK(NI)	IS	LI	NO	CH	TR

This device complies with the following directives:

- > Radio Equipment Directive 2014/53/EU
- > RoHS Directive 2011/65/EU

The full text of the EU declaration of conformity is available at:

<https://developer.nvidia.com/downloads>.

A copy of the Declaration of Conformity to the essential requirements may also be obtained directly from NVIDIA GmbH (Bavaria Towers – Blue Tower, Einsteinstrasse 172, D-81677 Munich Germany).

This device operates in the following frequency bands and maximum transmitted power:

Frequency Band	EIRP (dBm)	EIRP (mW)
2400 – 2483.5 MHz (Bluetooth)	18	64
2400 – 2483.5 MHz	20	100
5150 - 5250 MHz	23	200
5250 – 5350 MHz	23	200
5470 - 5725 MHz	23	200
5725 - 5850 MHz	14	25

Warning:

- > Operation of this device in the 5150 - 5350 MHz frequency band is restricted to indoor use.
- > This equipment must be installed and operated with a minimum distance of 20 cm between the radiator and your body.
- > Any modifications to this device, not expressly approved by the manufacturer, voids the user authority to operate the equipment.

Hardware version: 670-23840-0000-000.Vx

Firmware version: v5.9.0.3d

# Great Britain (England, Wales, and Scotland)

UK Conformity Assessed



Restrictions or Requirements for use in the UK.

This device complies with the following Regulations:

- SI 2017/1206 Radio Equipment Regulations 2017
- SI 2012/3032: The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (As Amended)

The full text of the UKCA declaration of conformity is available at:

<https://developer.nvidia.com/downloads>.

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

This device operates in the following frequency bands and maximum transmitted power:

Frequency Band	EIRP (dBm)	EIRP (mW)
2400 – 2483.5 MHz (Bluetooth)	18	64
2400 – 2483.5 MHz	20	100
5150 - 5250 MHz	23	200
5250 – 5350 MHz	23	200
5470 - 5725 MHz	23	200
5725 - 5850 MHz	14	25

Warning:

- > Operation in 5150 - 5350 MHz frequency band is restricted to indoor use.
- > This equipment must be installed and operated with a minimum distance of 20 cm between the radiator and your body.
- > Any changes or modifications to this device not expressly approved by the manufacturer could void the user's authority to operate the equipment.

# Australia and 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.

This product meets the applicable requirements for telecommunications equipment and can legally be connected to a telecommunication network.

# Japan

Voluntary Control Council for Interference (VCCI)



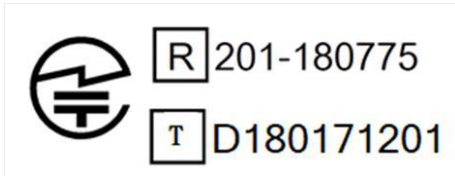
この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。  
取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

Translation:

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.

Radio/ Telecommunications Certification



W52/ W53 は屋内使用限定

## 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: 開発者ホスト						
主な分類	特定化学物質記号					
	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	0	0	0	0	0	0
メモリ	0	0	0	0	0	0
機械部品及びファン	除外項目	0	0	0	0	0
ケーブル/コネクタ	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: IGX Orin Developer Kit

Major Classification	Symbols of Specified Chemical Substance					
	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
Mechanical Parts and Fan	Exempt	0	0	0	0	0
Cables/Connectors	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.

# China

China Compulsory Certificate (CCC)



State Radio Regulation of China (SRRC)

CMIIT ID: 2023AJ5748

China RoHS Material Content Declaration

 物质的名称及含量 of Hazardous Substances and their Content 《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						
部件名称 Parts	有害物质 Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联 苯 (PBB)	多溴二苯 醚 (PBDE)
印刷电路板 PCB	0	0	0	0	0	0
被动电子零件 Passive components	X	0	0	0	0	0
主动电子零件 Active components	X	0	0	0	0	0
处理器 Processor	0	0	0	0	0	0
存储设备 Memory	0	0	0	0	0	0
结构件以及风扇 Mechanical parts and Fan	X	0	0	0	0	0
线材/连接器 Cable/Connectors	X	0	0	0	0	0

焊接金属 Soldering material	0	0	0	0	0	0
助焊剂, 锡膏, 标签及耗材 Flux, Solder Paste, Label and other consumable materials	0	0	0	0	0	0
<p>本表格依据 SJ/T 11364-2014 的规定编制 The table according to SJ/T 11364-2014</p> <p><b>0:</b> 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 26572-2011 标准规定的限量要求以下。 <b>0:</b> Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in GB/T 26572-2011.</p> <p><b>X:</b> 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 26572-2011 标准规定的限量要求。 <b>X:</b> 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 26572-2011.</p> <p>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.</p> <p>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.</p>						

# South Korea

Korea Certification

Radio Research Agency (RRA)

Korean Agency for Technology and Standards (KATS)



R-R-NVA-P3840

R-C-RTK-RTL8822CE



R-R-NVA-P3940

기자재 명칭(Equipment name) : Developer Kit

B 급 기기 (가정용 방송 통신기자재)	이 기기는 가정용(B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.
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## Korea RoHS Material Content Declaration

확인 및 평가 양식은 제품에 포함 된 유해 물질의 허용 기준의 준수에 관한				
문 준비	상호 :	앤비디아홍콩홀딩즈리미티드( 영 업소)	법인등록번호	110181- 0036373
	대표자성 명	카렌테레사번즈	사업자등록번 호:	120-84- 06711
	주소	서울특별시 강남구 영동대로 511, 2101 호 ( 삼성동, 코엑스무역타워)		
제품 내용				
제품의 종류	개인용 컴퓨터	제품명(규격)	개발자 키트	
세부모델명(번호):	해당없음	제품출시일	해당없음	
제품의 중량	해당없음	제조, 수입업자	앤비디아	

엔비디아 제품은 전기 전자제품 및 자동차의 자원순환에 관한 법률 시행령 제 11 조 제 1 항에 의거한 법 시행행규칙 제 3 조에따른 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 Prepared by	Company Name:	Nvidia Hong Kong Holding Ltd. Korea branch	Corporate Identification Number:	110181-0036373
	Name of Company Representative:	Karen Theresa Burns	Business Registration Number:	120-84-06711
	Address	2788 San Tomas Expressway, Santa Clara, CA 95051		
Product Information				
Product Category:	PC	Name of Product:	Developer Kit	
Detailed Product Model Name (Number):	N/A	Date of first market release:	N/A	
Weight of Product:	N/A	Manufacturer and/or Importer:	NVIDIA Corporation	

NVIDIA has evaluated and confirmed that this product complies with the standards for the content of hazardous substances in accordance with Article 3 of the 'Act on Resource Circulation of Electrical and Electronic Products and Vehicles' pursuant to Article 11, Paragraph 1 of the Enforcement Regulations of Article 11, Paragraph 1 in 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 and Inspection (BSMI)



This device complies with CNS 13438 (2006) Class B

National Communications Commission

國家通訊傳播委員會



注意！

依據 低功率電波輻射性電機管理辦法

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

在 5.250~5.350GHz 頻帶內操作之無線資訊傳輸設備，限於室內使用

應避免影響附近雷達系統之操作。

Taiwan RoHS Material Content Declaration

限用物質含有情況標示聲明書

Declaration of the presence condition of the Restricted Substances Marking

設備名稱：開發者主機 Equipment Name: Developer Kit						
單元 Parts	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (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
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/Connect ors	-	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.

# India

Bureau of Indian Standards (BIS)

Self-Declaration - Conforming to IS13252:2010, **R-41161535**



Authenticity may be verified by visiting the Bureau of Indian Standards website at <http://www.bis.gov.in>

Wireless Planning & Coordination Wing (WPC)

ETA No: ETA-SD-20230504037

India RoHS compliance statement:

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.

# Israel

Ministry of Economy Exemption Permit

Ministry of Defense Encryption License

# Bluetooth



Bluetooth® v5.0

Declaration ID: D049442

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