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Thank you for choosing the NVIDIA® GeForce RTX™ 2070 SUPER graphics card.

The GeForce® RTX 2070 SUPER is powered by the all-new NVIDIA Turing™ architecture to give you incredible new levels of gaming realism, speed, power efficiency, and immersion. This is graphics reinvented.

About This Guide
This installation guide discusses the installation and operation of the NVIDIA GeForce RTX 2070 SUPER graphic card.
Minimum System Requirements

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

> **System Power Supply**
Minimum 650 W or greater system power supply with one 6-pin and one 8-pin PCI Express supplementary power connectors.

> **Operating System**
- Microsoft® Windows® 10, 64-bit (v1809, November 2018 or later)
- Microsoft Windows 7, 64-bit
- Linux®, 64-bit

> **System Memory**
8 GB system memory (16 GB recommended)

> **Internet connection for driver installation**

> **1.5 GB of available hard disk space**
Prior to unpacking your new NVIDIA GeForce RTX 2070 SUPER graphics card, it is important to make sure you meet all the system requirements 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 2070 SUPER graphics card box.

- Quick Start Guide
- Support Guide
- DisplayPort to DVI-D Dongle
- GeForce RTX 2070 SUPER Graphics Card
  - One 6-pin and one 8-pin power connector
  - NVLink™ Connector
  - HDMI (High-Definition Multimedia Interface) Connector
  - DisplayPort Connectors (Qty 3)
  - USB Type-C™ Connector
Installing the NVIDIA GeForce graphics card hardware involves opening your computer. RTX 2070 SUPER 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 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 2070 SUPER graphics card is a PCI Express 3.0 ×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 2070 SUPER 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 2070 SUPER 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 2070 SUPER 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 2070 SUPER 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.

5 Plug the GeForce RTX 2070 SUPER 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.

Note: The GeForce RTX 2070 SUPER card is double-wide and requires removing two slot covers.

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.
If you are installing additional RTX 2070 SUPER graphics cards for an NVLink configuration, continue with step 6. If you are only installing one GeForce card, go on to step 7.

6 Install a second GeForce RTX 2070 SUPER graphic card (NVLink configuration).
Install the second GeForce card into the outer most PCI Express x16 slot on the motherboard.
Connect the two cards together using the GeForce RTX NVLink Bridge (3-Slot or 4-Slot).

Note: GeForce RTX NVLink Bridge can be found on [www.nvidia.com](http://www.nvidia.com).

7 Connect a 6-pin and 8-pin power connectors from the power supply to the power connectors on the top edge of the GeForce RTX 2070 SUPER graphics card. Note that the connector and socket on the graphics card have a unique shape and connect one way only.

Reinstall the cover on your computer and reconnect any cables that you removed earlier in the installation.
DisplayPort connectors (Qty 3)

HDMI (High-Definition Multimedia Interface) Connector

USB Type-C Connector
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 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 2070 SUPER 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 1-800-493-4578 (US) or 0800-404-7747 (UK).
SLI is a revolutionary technology developed by NVIDIA that allows you to connect identical GeForce graphics cards together to deliver increased performance.

You can enable SLI by either clicking on the SLI-capable system balloon in the system tray or by going to the NVIDIA Control Panel.

**Note:** You must have an SLI-ready motherboard and two identical SLI-ready GeForce RTX 2070 SUPER graphics cards installed in your PC in order to enable SLI.

**Accessing the NVIDIA Control Panel**

To access the NVIDIA Control Panel, you can right-click the Windows desktop and select **NVIDIA Control Panel** from the menu. Other ways to access the NVIDIA Control Panel depends on the operating system.
Enabling / Disabling SLI

1. Once you have the NVIDIA Control Panel open, click on Configure SLI, Surround, PhysX in the left task pane.
2. Enable SLI by making sure the Disable SLI button is not checked.
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 Set Default.
3. 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).
> **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 SHARE 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 G-SYNC™-Ready**: 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.

---

1 NVIDIA GameStream requires an NVIDIA GameStream-ready device

2 NVIDIA G-SYNC requires an NVIDIA G-SYNC-ready monitor
Features

> Microsoft® 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: Drive the latest DisplayPort panels with support for resolutions up to 4096x2160.

> HDMI: 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.

> 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.
The NVIDIA GeForce RTX 2070 SUPER graphics card is compliant with the following regulations:

- Federal Communications Commission (FCC)
- Industry Canada (IC)
- Conformité Européenne (CE)
- Australian Communications and Media Authority (C-tick)
- 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 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 Industry Canada 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’Industrie 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 and 2011/65/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 (Floessergasse 2, 81369 Munich, Germany).
08

JAPAN

Voluntary Control Council for Interference (VCCI)

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

<table>
<thead>
<tr>
<th>主な分類</th>
<th>特定化学物質記号</th>
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</thead>
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<tr>
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<td>Pb</td>
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<tr>
<td>PCBボード</td>
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<tr>
<td>パッシブ電子部品</td>
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<tr>
<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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</tr>
</tbody>
</table>

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。

Product Model Number: Graphic card

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<tr>
<th>Major Classification</th>
<th>Symbols of Specified Chemical Substance</th>
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<td>Pb</td>
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<td>PCB</td>
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<tr>
<td>Passive components</td>
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<td>Active components</td>
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</tr>
<tr>
<td>Cables/Connectors</td>
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<td>Processor</td>
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<tr>
<td>Memory</td>
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<tr>
<td>Mechanicals</td>
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</tr>
<tr>
<td>Soldering material</td>
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<td>Flux, Solder Paste, label</td>
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<tr>
<td>and other consumable</td>
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<tr>
<td>materials</td>
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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
Radio Research Agency (RRA)

Korea RoHS Material Content Declaration

<table>
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<tr>
<th>문제</th>
<th>상호</th>
<th>법인등록번호</th>
<th>대표자성명</th>
<th>사업자등록번호</th>
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<td>카렌테레사먼즈</td>
<td>120-84-06711</td>
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<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>
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<th>제품명(규격)</th>
<th>해당없음</th>
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<tr>
<td>제품의 중량</td>
<td>해당없음</td>
<td>제조, 수입업자</td>
<td>엔비디아</td>
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</tbody>
</table>

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

구비서류: 없음

작성방법

① 제품의 종류는 “전기.전자제품 및 자동차의 자원순환에 관한 법률 시행령” 제 8조 제 1항 및 제 2항에 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

<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>
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<tbody>
<tr>
<td>Name of Company Representative: Karen Theresa Burns</td>
<td>Business Registration Number: 120-84-06711</td>
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<tr>
<td>Address</td>
<td>2788 San Tomas Expressway, Santa Clara, CA 95051</td>
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Product Information

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<tr>
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<th>Weight of Product</th>
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<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>NVIDIA Corporation</td>
</tr>
</tbody>
</table>

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.

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
# Taiwan RoHS Material Content Declaration

<table>
<thead>
<tr>
<th>Parts</th>
<th>Restricted substances and its chemical symbols</th>
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<tbody>
<tr>
<td></td>
<td>錫 (Pb)</td>
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<td>PCB 板</td>
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<td>Mechanical parts and Fan</td>
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<td>Connectors</td>
<td>-</td>
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<tr>
<td>Flux, Solder Paste, label and other consumable materials</td>
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</table>

**備考1:** O 表示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:** - 表示該項限用物質為排外項目。
**Note 2:** - indicates that the restricted substance corresponds to the exemption.
Compliances

All parts named in this table with an "-" are in compliance with the European Union’s RoHS Legislation.

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

<table>
<thead>
<tr>
<th>部件名称</th>
<th>铅 (Pb)</th>
<th>汞 (Hg)</th>
<th>镉 (Cd)</th>
<th>六价铬 (Cr(VI))</th>
<th>多溴联苯 (PBB)</th>
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本表格依据SJT 11364-2014 的规定编制

The table according to SJ/T 11364

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**INDIA**

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