NVIDIA

GEFORCE RTX™ 5090

Quick Start Guide

01 System Specifications

Thank you for choosing the NVIDIA® GeForce RTX® 5090 graphics card. Before you begin, please review the following System Specifications to ensure your PC has the appropriate hardware and software for your new graphics card.

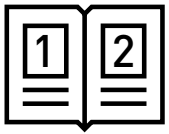
System Specifications

- **Motherboard:**
  PCI Express® graphics slot required.
- **Clearance:**
  Must have space for 304mm (L) x 137mm (W) x 61mm (H) card. One additional slot clearance in front of the fans is recommended for better airflow.

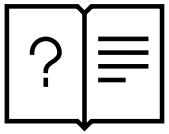
- **System Power Supply:**
  - 1000 W power rating minimum.
  - Supported power connector configurations:
    - At least four PCIe 8-pin cables (with RTX 5090 PCIe Gen 5 Power Connector Adapter).
    - One 600 W or greater PCIe Gen 5 Cable (16-pin).
- **Operating System:**
  - Microsoft® Windows® 11 64-bit recommended.
  - Linux, 64-bit.
- **Driver Installation:** 2 GB of available disk space required for driver installation.

02 Equipment

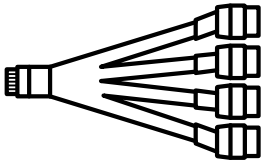
The following equipment is included in the NVIDIA GeForce RTX 5090 graphics card box.



Quick Start Guide



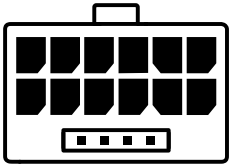
Support Guide

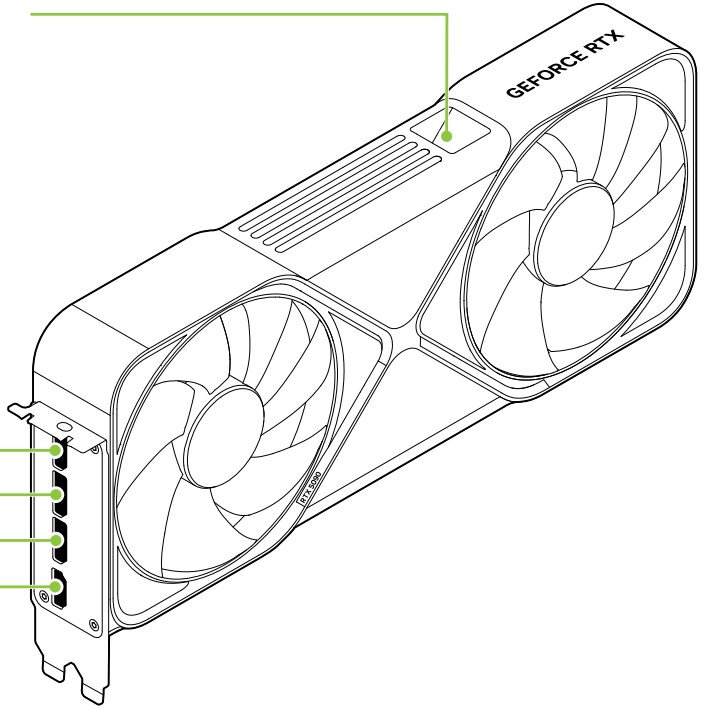


NVIDIA PCIe Gen5 16-pin power connector adapter

⚠	**Attention:** Use only the included NVIDIA power connector adapter for your GeForce RTX 50 Series Founders Edition graphics card.

PCIe Gen5 16-pin Power Connector





DisplayPort
Connectors (x3)

HDMI Connector

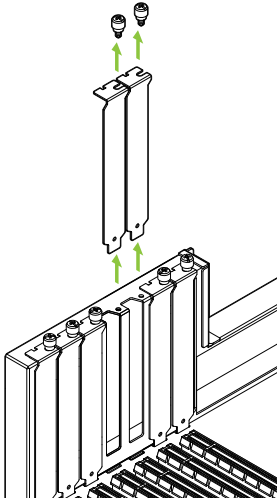
GeForce RTX 5090 Graphics Card

03 Hardware Installation

1 Turn off your computer, disconnect the power cord and remove any existing graphics card(s).

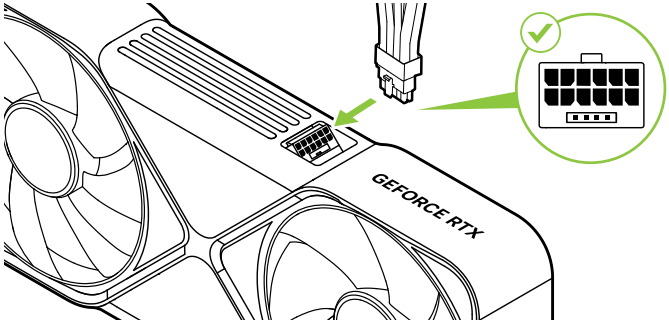
⚠	**Attention:** It is very important that you wait until the graphics card has cooled before taking the card out of the system.

2 Remove two slot covers if there was no existing graphics card.



Remove two adjacent slot covers that correspond to the PCI Express slot you are installing the graphics card in.

3 Connect the 16-pin plug of NVIDIA power connector adapter to the power receptacle on the top of the GeForce RTX 5090 graphics card.

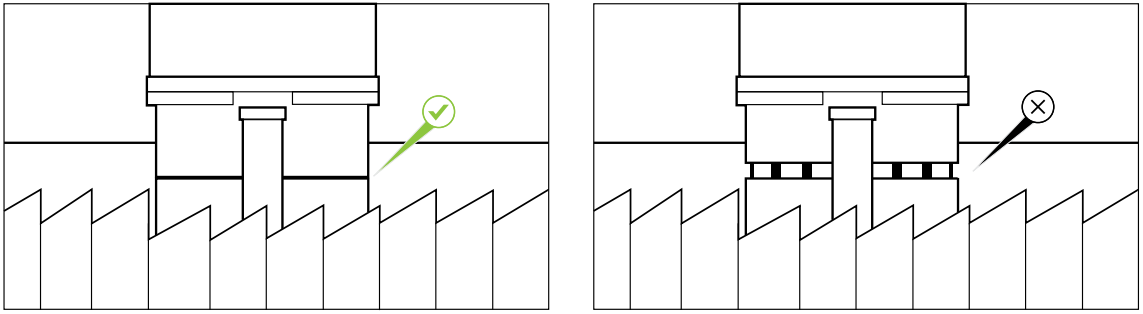


Connect at least four independent dedicated cables with 8-pin PCI Express plugs from the system power supply to the NVIDIA power connector adapter.

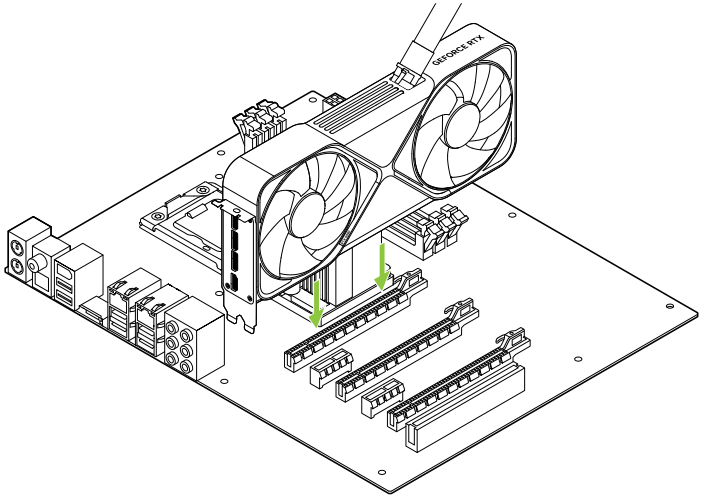
⚠	**Attention:** Use only the included NVIDIA power connector adapter for your GeForce RTX 50 Series Founders Edition graphics card.

To help ensure the connector is secure we recommend plugging the power dongle into the graphics card first to ensure it’s firmly and evenly plugged in, before plugging the graphics card into the motherboard.

⚠ **Attention:** Ensure the power plug is fully inserted and seated flush against the power receptacle.



4 Install the GeForce RTX 5090 graphics card into the primary PCI Express x16 slot on your motherboard.



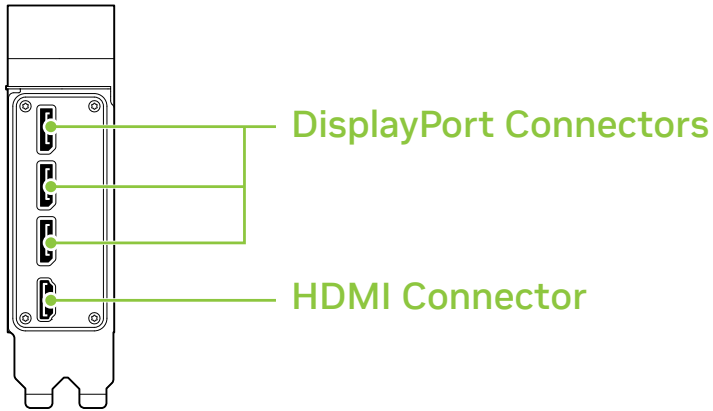
Install your GeForce RTX 5090 into the Primary PCI Express x16 slot (the Primary slot is the one closest to the CPU).

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

5 Reinstall the covers on your computer and reconnect any cables previously removed.

04 Connecting To The Display

1. Connect the display(s) to the graphics card.
2. Reconnect your power cord to the PC.



05 Software Installation And Configuration

With the hardware installed, the final step is to install the NVIDIA App software to update your drivers and optimize your games.

1. Download and install NVIDIA App software.
   - Go to https://www.nvidia.com/en-us/software/nvidia-app/ and click **Download Now.**
   - Accept the NVIDIA software license agreement by selecting **Agree and Continue**. NVIDIA App software begins to install.
   - Select **Close** to finish the installation.

2 Congratulations! Your GeForce 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 or call 1-800-797-6530 (US) or 0800 404 7747 (UK).

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