The GeForce RTX™ 3050 is built with the powerful graphics performance of the NVIDIA Ampere architecture. It offers dedicated 2nd gen RT Cores and 3rd gen Tensor Cores, new streaming multiprocessors, and high-speed G6 memory to tackle the latest games. Step up to GeForce RTX.

The all-new NVIDIA Ampere architecture features new 2nd generation Ray Tracing Cores and 3rd generation Tensor Cores with greater throughput.

**NVIDIA Ampere Streaming Multiprocessors**

The all-new Ampere SM brings 2X the FP32 throughput and improved power efficiency.

**2nd Generation RT Cores**

Experience 2X the throughput of 1st gen RT Cores, plus concurrent RT and shading for a whole new level of ray tracing performance.

**3rd Generation Tensor Cores**

Get up to 2X the throughput with structural sparsity and advanced AI algorithms such as DLSS. These cores deliver a massive boost in game performance and all-new AI capabilities.

**GRAPHICS REINVENTED**

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**KEY FEATURES**

- 2nd Gen Ray Tracing Cores
- 3rd Gen Tensor Cores
- PCI Express® Gen 4
- Microsoft DirectX® 12 Ultimate
- GDDR6 Graphics Memory
- NVIDIA DLSS
- NVIDIA® GeForce Experience™
- NVIDIA G-SYNC®
- NVIDIA GPU Boost™
- Game Ready Drivers
- Vulkan RT API, OpenGL 4.6
- DisplayPort 1.4a
- 7th Gen NVIDIA Encoder
- 5th Gen NVIDIA Decoder
- HDCP 2.3
- Supports 4K 120Hz HDR, 8K 60Hz HDR and Variable Refresh Rate as specified in HDMI 2.1

**SYSTEM REQUIREMENTS**

- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- One 8-pin supplementary power connectors
- 550 W or greater system power supply
- Microsoft Windows 10 64-bit (April 2018 Update or later), Windows 11 64-bit, Linux 64-bit
- Internet connection

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA® CUDA Cores</td>
<td>2560</td>
</tr>
<tr>
<td>Clock Speed</td>
<td>1552 MHz</td>
</tr>
<tr>
<td>Boost Speed</td>
<td>1777 MHz</td>
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<tr>
<td>Memory Speed (Gbps)</td>
<td>14</td>
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<tr>
<td>Memory Size</td>
<td>8GB GDDR6</td>
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<tr>
<td>Memory Interface</td>
<td>128-bit</td>
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<tr>
<td>Memory Bandwidth (Gbps)</td>
<td>224</td>
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<tr>
<td>TDP</td>
<td>130 W</td>
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<tr>
<td>NVLink</td>
<td>Not Supported</td>
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<tr>
<td>Outputs</td>
<td>DisplayPort 1.4a (x3), HDMI 2.1</td>
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<tr>
<td>Multi-Screen</td>
<td>4</td>
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<tr>
<td>Resolution</td>
<td>7680 x 4320 @60Hz (Digital)</td>
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<tr>
<td>Power Input</td>
<td>One 8-Pin</td>
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<tr>
<td>Bus Type</td>
<td>PCI-Express 4.0 x16</td>
</tr>
</tbody>
</table>

**PRODUCT INFORMATION**

- PNY Part Number: VCG30508DFMPB
- UPC Code: 751492660400
- Card Dimensions: 10.19" x 5.00" x 1.65"; Dual Slot
- Box Dimensions: 12.6" x 6.69" x 3.54"

1 Graphics Card driver is not included in the box; GeForce Experience will download the latest GeForce driver from the Internet after install.