COLOSSAL PERFORMANCE AND SPEED

NVIDIA® GeForce RTX™ 40 Series GPUs are beyond fast for gamers and creators. They're powered by the ultra-efficient NVIDIA Ada Lovelace architecture which delivers a quantum leap in both performance and AI-powered graphics. Experience lifelike virtual worlds with ray tracing and ultra-high FPS gaming with the lowest latency. Discover revolutionary new ways to create and unprecedented workflow acceleration.

The NVIDIA® GeForce RTX™ 4090 is the ultimate GeForce GPU. It brings an enormous leap in performance, efficiency, and AI-powered graphics. It's built on a new custom TSMC 4N process, runs with blazing fast clocks, and features a large L2 cache. It enables fast ray tracing, new ways to create, and much more.

KEY FEATURES

- Powered by NVIDIA DLSS 3, ultra-efficient Ada Lovelace arch, and full ray tracing
- Dedicated Ray Tracing Cores
- Dedicated Tensor Cores
- NVIDIA DLSS 3
- Game Ready and NVIDIA Studio Drivers
- NVIDIA® GeForce Experience™
- NVIDIA Broadcast
- NVIDIA G-SYNC®
- NVIDIA GPU Boost™
- GDDR6X Graphics Memory
- PCI Express® Gen 4
- Microsoft DirectX® 12 Ultimate
- Vulkan RT APIs, Vulcan 1.3, OpenGL 4.6
- HDCP 2.3
- DisplayPort 1.4a
- Supports 4K 120Hz HDR, 8K 60Hz HDR, and Variable Refresh Rate as specified in HDMI 2.1a
- 7-color RGB LED breathing rotation
- On/Off LED light switch
- Support Bracket Included
- One 16-pin to Three 8-pin Power Cable Included

SYSTEM REQUIREMENTS

- PCI Express-compliant motherboard with one 3.5-slot width x16 graphics slot
- Three 8-pin supplementary power connectors
- 1000 W or greater system power supply
- Microsoft Windows® 10 64-bit (November 2018 or later) 64-bit, Linux 64-bit
- Internet connection¹

PRODUCT SPECIFICATIONS

- NVIDIA® CUDA Cores: 16384
- Clock Speed: 2235 MHz
- Boost Speed: 2520 MHz
- Memory Speed (Gbps): 21
- Memory Size: 24GB GDDR6X
- Memory Interface: 384-bit
- Memory Bandwidth (Gbps): 1008
- TDP: 450 W
- NVLink: Not Supported
- Outputs: DisplayPort 1.4 (x3), HDMI 2.1
- Multi-Screen: 4
- Resolution: 7680 x 4320 @120Hz (Digital)
- Power Input: One 16-Pin (One 16-pin to Three 8-pin)
- Bus Type: PCI-Express 4.0 x16

PRODUCT INFORMATION

- PNY Part Number: VCG409024TFXMPB
- UPC Code: 751492768090
- Card Dimensions: 14.37" x 6.3" x 2.48", 3.5-slot 35.1 x 14.5 x 6.3 cm, 3.5-Slot
- Box Dimensions: 17.3" x 9.02" x 4.41" 43.9 x 22.9 x 11.2 cm

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