



# PNY GEFORCE RTX™ 4090 24GB VERTO Triple Fan Edition DLSS 3

### NVIDIA Ada Lovelace Streaming Multiprocessors

Up to 2x performance and power efficiency

### 4th Generation Tensor Cores

Up to 2X AI performance

### 3rd Generation RT Cores

Up to 2X ray tracing performance

## 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. Experience ultra-high performance gaming, incredibly detailed virtual worlds with ray tracing, unprecedented productivity, and new ways to create. It's powered by the NVIDIA Ada Lovelace architecture and comes with 24 GB of G6X memory to deliver the ultimate experience for gamers and creators.

The new NVIDIA® Ada Lovelace architecture delivers a quantum leap in performance, efficiency, and AI-powered graphics. It has new Streaming Multiprocessors, 3rd generation Ray Tracing Cores, and 4th generation Tensor Cores. 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, Vulkan 1.3, OpenGL 4.6
- HDCP 2.3
- DisplayPort 1.4a, up to 4K at 240Hz or 8K at 60Hz with DSC, HDR
- As specified in HDMI 2.1a: up to 4K 240Hz or 8K 60Hz with DSC, Gaming VRR, HDR
- Support Bracket Included
- One 16-pin to Four 8-pin Power Cable Included

### SYSTEM REQUIREMENTS

- PCI Express-compliant motherboard with one triple width x16 graphics slot
- Four 8-pin supplementary power connectors
- 850 W or greater system power supply<sup>2</sup>
- Microsoft Windows® 11 64-bit, Windows 10 (November 2018 or later) 64-bit, Linux 64-bit
- Internet connection<sup>1</sup>

## 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) <sup>3</sup>
Power Input	One 16-Pin (One 16-pin to Four 8-pin)
Bus Type	PCI-Express 4.0 x16

## PRODUCT INFORMATION

PNY Part Number	VCG409024TFXPB1
UPC Code	751492761237
Card Dimensions	13.26" x 5.63" x 2.33"; 3 Slot 336.9 x 142.9 x 59.1mm; 3 Slot
Box Dimensions	15.94" x 7.83" x 4.06" 405 x 199 x 103mm

- 1 Graphics Card driver is not included in the box; GeForce Experience will download the latest GeForce driver from the Internet after install.
- 2 Minimum is based on a PC configured with a Ryzen 9 5900X processor. Power requirements can be different depending on system configuration.
- 3 Up to 4K 12-bit HDR at 240Hz with DP 1.4a + DSC or HDMI 2.1a + DSC. Up to 8K 12-bit HDR at 60Hz with DP 1.4a + DSC or HDMI 2.1a + DSC

