



# NVIDIA QUADRO FOR MANUFACTURING



## Quadro Desktop Solutions for Manufacturing and Product Development

Professionals in manufacturing and product development face challenges as they strive to create the next generation of products. Engineers and designers need to accelerate time to market, reduce costs, and be able to leverage high-performance computing.

As the world shifts to working remotely, the same challenges remain—and meeting them requires the performance and capabilities that only a desktop workstation can provide. NVIDIA® Quadro® desktop GPUs deliver everything needed to take your home office to the next level. Available in compact form factors, Quadro RTX™ and Quadro Pascal™ GPUs bring accelerated graphics and compute to your fingertips, giving your home system—workstation, PC, or rig an instant boost with Quadro.

Quadro GPUs also provide access to productivity tools that simplify time-consuming tasks and increase efficiency. NVIDIA Quadro Experience™ includes 4K recording, alerts for driver updates, and access to gaming features, while Quadro View features a full suite of display management tools. Tap into the power of a world-class graphics platform with Quadro at the heart of your desktop workstation.

## Bring GPU Acceleration to Product Design Workflows



### CONCEPTUAL DESIGN

> Manage the purchase, support, and upgrade of software and hardware for teams.

**Roles:** CAD Manager/IT

**Recommended GPU:** RTX 4000 or below



### ENGINEERING

> Create sketches, surface models, and renderings to define product appearance and capabilities.

**Roles:** Industrial Designer

**Recommended GPU:** RTX 4000 or above



### ENGINEERING DOCUMENTATION

> Produce 3D solid models/simulations to represent product performance and manufacturability.

**Roles:** Mechanical Engineer

**Recommended GPU:** RTX 4000 or above



### TECHNICAL PUBLICATIONS

> Make 2D drawings documenting manufacturing and assembly instructions.

**Roles:** 2D Detailer/Drafter

**Recommended GPU:** P400-P620



### MARKETING/SALES

> Create customer-facing assembly and maintenance instructions.

**Role:** Illustrator, Tech Pub Specialist

**Recommended GPU:** P1000 - P2200



### SYSTEMS MANAGEMENT

> Manage the creation of marketing collateral to drive awareness and sales.

**Roles:** Tech Marketing

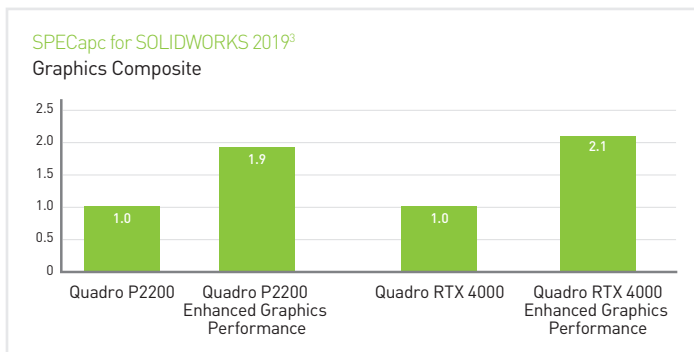
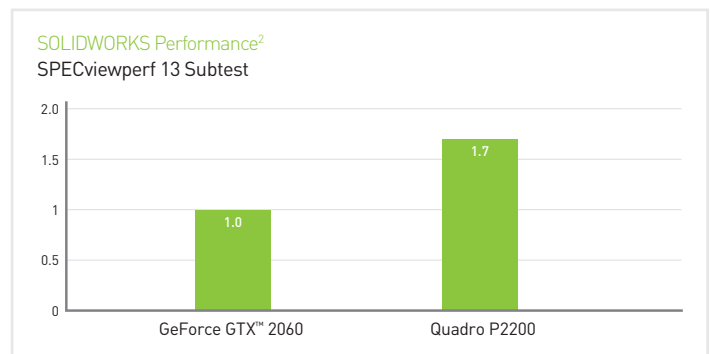
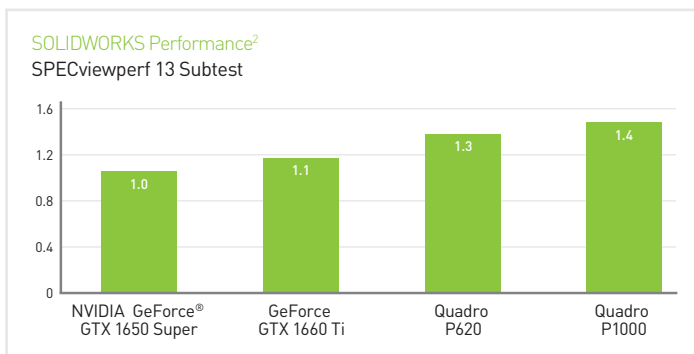
**Recommended GPU:** RTX 4000 or below

## The Quadro Advantage

NVIDIA Quadro GPUs deliver the peace of mind designers and engineers need to work on mission-critical projects from anywhere. Features include:

- > Independent software vendor (ISV) certifications for 100+ professional applications like SOLIDWORKS, AutoCAD, and more
- > NVIDIA Mosaic multi-display technology with bezel correction and the Warp and Blend SDK to drive immersive large-scale visualizations
- > A suite of productivity tools, including 4K recording capabilities, automatic driver alerts, and gaming features with **Quadro Experience**
- > **Quadro View** desktop management software with flexible window snapping, user profiles, windows management, and hotkey support to easily view computer-aided design (CAD) projects, product revisions, product lifecycle management (PLM) releases, and more in one view
- > Quadro Sync<sup>1</sup> support to synchronize multiple Quadro graphics cards with displays or projectors
- > Testing by leading workstation manufacturers
- > A global team of support specialists available 24/7

## Unbeatable SOLIDWORKS Performance with Quadro



Learn more at [www.pny.com/productivity](http://www.pny.com/productivity)

<sup>1</sup> Available on RTX 4000 or above.

<sup>2</sup> Tests run on a workstation with Xeon Gold 6154 (3.7 GHz Turbo), 64 GB RAM, running Windows 10 64-bit, NVIDIA driver 442.74. Performance testing completed with publicly available SPECviewperf 13.

<sup>3</sup> Tests run on a workstation with Xeon Gold 6154 (3.7 GHz Turbo), 64 GB RAM, running Windows 10 64-bit, NVIDIA driver 436.30. Performance testing completed with publicly available SPECapc for SOLIDWORKS 2019 benchmark information.