NVIDIA® QUADRO® P4000
POWERFUL SIEMENS NX PERFORMANCE

Deliver cutting edge designs with the NVIDIA Quadro P4000 and Siemens NX.

The NVIDIA® Quadro® P4000 professional graphics card and Siemens NX software combine to give you the power to deliver cutting edge designs while meeting the most challenging deadlines—whether your expertise is aerospace, automotive, energy, marine, machinery, or consumer products.

Quadro P4000

The P4000 has the performance and features required by the most demanding Siemens NX workflows.

This includes:

> **Incredible Performance**
> The P4000 delivers up to 70% more visualization performance* and 60% faster rendering** performance than the previous generation while using 30% less power.

> **Rich Visual Workspace**
> Experience stunning image quality with the power to drive up to four true 5K (5120 x 2880 @ 60Hz) displays with HDR color support via DisplayPort 1.4.

> **VR Ready**
> The latest NVIDIA Pascal GPU architecture provides the P4000 with the features and performance necessary to create immersive VR experiences from a single slot graphics solution.

> **Single Slot Form Factor**
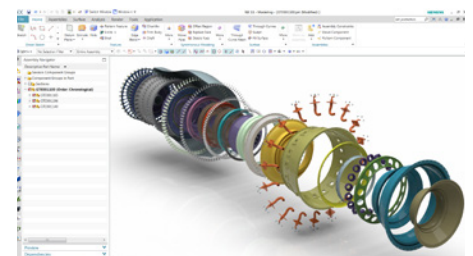> A single slot form factor allows the P4000 to fit into a wide variety of workstations or use multiple P4000s for extreme performance.
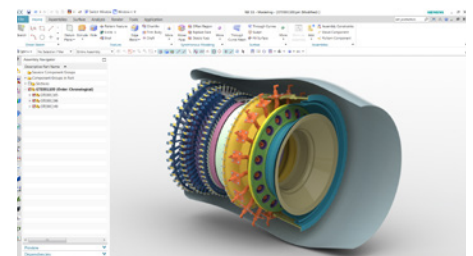
More Productive Workflow

Quadro P4000 offers fast 3D graphics performance that enables you to quickly visualize and interact with complex designs. With the P4000 you can rapidly explore design alternatives using different scenarios and materials in real time, to be confident that your final design is the best. Advances in technology like large 4K monitors, which facilitate 3D CAD workflows, mean that designers and engineers using product design tools from Siemens PLM Software expect ever more powerful and reliable graphics performance. And with the emergence of Virtual Reality in product design workflows, the need for the Quadro P4000 has never been more evident.

More Complex Designs

Since many products designed with Siemens NX consist of hundreds or even thousands of individual components, the P4000, with 8GB of graphics memory, gives you the ability to interact with extremely large assemblies, with more components. You can manipulate more surfaces and materials than ever before, to make better-informed design decisions while reviewing the individual components in context of the full assembly.

Deliver solutions faster with the power of the Quadro P4000 and Siemens PLM software

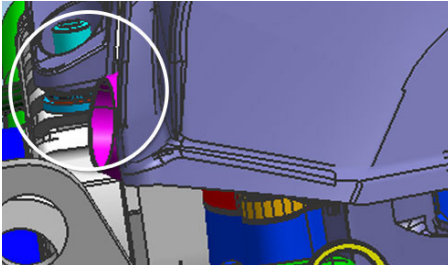Work with larger, more complex designs with Siemens NX and the Quadro P4000

*based on SPECviewperf 12 Geomean of all test scores comparing Quadro P4000 vs Quadro M4000
**based on internal NVIDIA testing using Iray 2016.2 benchmark comparing Quadro P4000 vs Quadro M4000
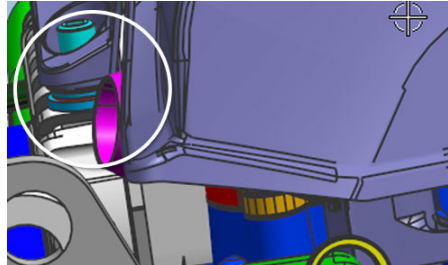
Cutting-Edge Design and Visualization Tools

Explore more iterations faster by using NX Ray Traced Studio to interactively generate photorealistic views of your complex designs. NVIDIA Iray rendering was natively integrated into NX11, so Ray Traced Studio users can access NVIDIA's latest physically based rendering technology to predictably visualize in real-time how designs will look in real life. With the performance of the P4000, you can incorporate high-quality reviews in your workflow for faster product decisions with key stakeholders, shortening your time to market.

Image created with GPU-accelerated NX Ray Traced Studio powered by NVIDIA Iray

Without FSAA
Jagged edges are visible, making it hard to discern model details.

With FSAA
A more accurate model appears with smoother edges.

Higher-Quality Designs

The P4000 provides reduced visual artifacts, helping you refine the most intricate design details without sacrificing performance. See your designs with smooth, accurate edges as NVIDIA® Quadro® full-scene anti-aliasing (up to 64X, 128X with dual P4000s) removes jagged edges in real time.
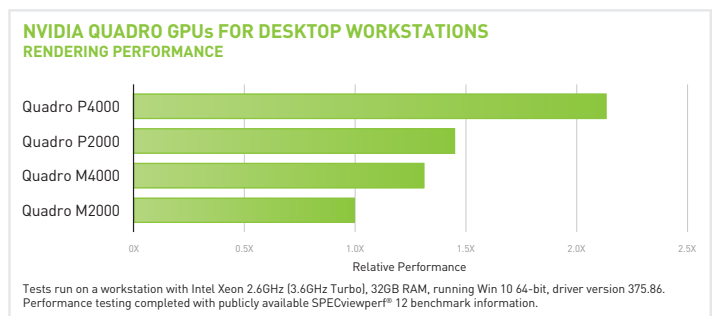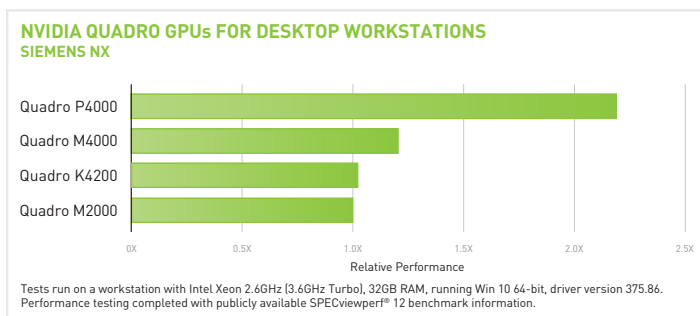
Use VR to Experience Your Designs

When you are ready to augment your workflow with the benefits of virtual reality, the P4000 is VR Ready, with the features and capabilities necessary for immersive VR environments that let you experience your designs like never before.

Experience your designs in VR with the power of the Quadro P4000

P4000 SIEMENS NX SOFTWARE PERFORMANCE

With 1792 Pascal CUDA cores and 8 GB of ultra-fast graphics memory, the P4000 delivers significant Siemens NX software performance increases over mid-range graphics cards or the previous generation Quadro 4000 series cards. Move up to the performance of the Quadro P4000.

NVIDIA QUADRO GPUs FOR DESKTOP WORKSTATIONS
SIEMENS NX

Tests run on a workstation with Intel Xeon 2.6GHz (3.6GHz Turbo), 32GB RAM, running Win 10 64-bit, driver version 375.86.
Performance testing completed with publicly available SPECviewperf® 12 benchmark information.

NVIDIA QUADRO GPUs FOR DESKTOP WORKSTATIONS
RENDERING PERFORMANCE

Tests run on a workstation with Intel Xeon 2.6GHz (3.6GHz Turbo), 32GB RAM, running Win 10 64-bit, driver version 375.86.
Performance testing completed with publicly available SPECviewperf® 12 benchmark information.

SIEMENS

NVIDIA professional graphics solutions are certified and recommended by Siemens. For the latest updates on software certifications and support, please visit the Siemens NX platform support website. The close collaboration during product development guarantees stability and reliability of the platform just the way you expect from day one.

To learn more, visit **www.nvidia.com/siemens**

NVIDIA.