NVIDIA PROFESSIONAL GRAPHICS

Transition Chart

EOL Products	Late Maturity	NVIDIA Turing Architecture Current Gen
NVIDIA Quadro NVS | NVIDIA NVS	NVIDIA Quadro Gen-1	NVIDIA Turing Architecture
NVIDIA Quadro NVS 285	NVIDIA Quadro P620V2	NVIDIA T400
NVIDIA Quadro NVS 290	NVIDIA Quadro P620V2	NVIDIA T400
NVIDIA Quadro NVS 295	NVIDIA Quadro P620V2	NVIDIA T400
NVIDIA NVS 300	NVIDIA Quadro P620V2	NVIDIA T400 or T600
NVIDIA NVS 310	NVIDIA Quadro P620V2	NVIDIA T400 or 600
NVIDIA NVS 315	NVIDIA Quadro P620V2	NVIDIA T400 or 600
Two Display Support	Two Display Support	Two Display Support
NVIDIA Quadro NVS | NVIDIA NVS	NVIDIA Quadro Gen-1	NVIDIA Quadro NVS | NVIDIA NVS
NVIDIA Quadro NVS 400	NVIDIA Quadro P1000V2	NVIDIA T1000
NVIDIA Quadro NVS 420	NVIDIA Quadro P1000V2	NVIDIA T1000
NVIDIA Quadro NVS 440	NVIDIA Quadro P1000V2	NVIDIA T1000
NVIDIA Quadro NVS 450	NVIDIA Quadro P1000V2	NVIDIA T1000
NVIDIA NVS 510	NVIDIA Quadro P1000V2	NVIDIA T1000
Four Display Support	Four Display Support	Four Display Support
NVIDIA NVS	NVIDIA Quadro Gen-1	NVIDIA Quadro Gen-1
NVIDIA NVS 810	2x NVIDIA P1000V2	2x NVIDIA T1000
Eight Display Support	Eight Display Support	Eight Display Support

NVIDIA discontinued their Quadro® NVS and NVS product families because Gen-1 Quadro or current NVIDIA Turing architecture products offered significantly better performance for either 3D or 2D graphics (NVS was 2D optimized only), support for newer monitor technologies such as DisplayPort and HDMI, but allow backwards compatibility with DVI and even VGA cabling environments via recommended and locking adapters*

NVIDIA Quadro and Turing architecture professional GPUs are all compatible with NVIDIA RTX Desktop Manager (formerly known as nView), offer long-life Optimal Driver for the Enterprise (ODE) driver branch releases, and fully support NVIDIA Enterprise Management Toolkit (NVWMI) making them compatible with the same IT management tools utilized to support and enforce policy practices, along with remote troubleshooting, for NVIDIA Quadro NVS or NVIDIA NVS board installations.

All of the NVIDIA Quadro and Turing architecture products listed here require a PCIe x16 slot. None require auxiliary power, and all are compatible with SFF or ATX system enclosures.

*These products all feature mDP connectors and are compatible with SFF or ATX system enclosures. HDMI, DVI-D SL, and VGA support require optional display adapters.

PNY Technologies, Inc. 100 Jefferson Road, Parsippany, NJ 07054 | Tel 973-515-9700 | Fax 973-560-5590 | www.PNY.com

Contact a PNY account manager or email GOPNY@PNY.COM

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NVIDIA PROFESSIONAL GRAPHICS

Transition Chart

EOL Products Gen-3 | Gen-4	EOL Products Gen-2	Late Maturity Gen-1 | Gen-2	NVIDIA Ampere Architecture Current Gen
NVIDIA Quadro Maxwell | Kepler Architecture	NVIDIA Quadro Pascal	NVIDIA RTX™ Turing | Pascal	NVIDIA RTX Ampere
NVIDIA Quadro M6000 12GB | 24GB | Maxwell	NVIDIA Quadro P6000 | Pascal	NVIDIA Quadro RTX 8000 | Turing	NVIDIA RTX A6000 | Ampere
NVIDIA Quadro M5000 | Maxwell	NVIDIA Quadro P5000 | Pascal	NVIDIA Quadro RTX 6000 | Turing	NVIDIA RTX A6000 | Ampere
NVIDIA Quadro M4000 | Maxwell	NVIDIA Quadro P4000 | Pascal	NVIDIA Quadro RTX 8000 Passive | Turing	NVIDIA A40 | Ampere | Data Center Product
NVIDIA Quadro M2000 | Maxwell	NVIDIA Quadro P2200 | Pascal	NVIDIA Quadro RTX 6000 Passive | Turing	NVIDIA A40 | Ampere | Data Center Product
NVIDIA Quadro K2200 | Kepler	NVIDIA Quadro P2000 | Pascal	NVIDIA Quadro RTX 5000 | Turing	NVIDIA RTX A5000 | Ampere
NVIDIA Quadro K1200 | Kepler	NVIDIA Quadro P1000 | Pascal	NVIDIA Quadro RTX 4000 | Turing	NVIDIA RTX A4000 | Ampere
NVIDIA Quadro K620 | Kepler	NVIDIA Quadro P620 | Pascal	NVIDIA Quadro P2000 | Pascal	NVIDIA RTX A2000
NVIDIA Quadro K420 | Kepler	NVIDIA Quadro P400 | Pascal	NVIDIA Quadro P1000V2 | Pascal	NVIDIA T1000 | Turing*
		NVIDIA Quadro P620V2 | Pascal	NVIDIA T600 | Turing*
		NVIDIA Quadro P400V2 | Pascal	NVIDIA T400 | Turing*
NVIDIA Maxwell and Pascal architecture products were leaders in their respective eras, but lack RT Cores or Tensor Cores. For AI-enhanced applications, or any application, use case, pipeline, or workflow that depends of AI or photorealistic (cinematic) quality real-time ray tracing NVIDIA Quadro RTX (Turing) or NVIDIA RTX (Ampere) must be considered mandatory upgrades to stay competitive with companies who have purchased, deployed, and utilize RTX technology.		NVIDIA Quadro RTX, based on the Turing architecture brought real-time ray tracing to the application viewport with dedicated RT Cores and brought Tensor Cores for AI across all RTX products. AI denoising via Tensor Cores in conjunction with RT Cores essentially brings photorealistic ray tracing into the mainstream and over 100+ applications have been optimized for NVIDIA RTX.	NVIDIA Ampere architecture-based products implement second-generation RT Cores with additional features such as motion blur, third-generation Tensor Cores, with support for structural sparsity, and even more powerful CUDA Cores than gen-1 products. A new Data Center GPU, the NVIDIA A40, replaces the prior generation NVIDIA Quadro RTX 8000 Passive and RTX 6000 Passive in the lineup. Ampere offers ultimate performance for graphics, AI, and HPC workstation users.

* No RT Core or Tensor Core support.

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