

| Products | Part Number | GPU Memory | Memory Bandwidth | CUDA Cores | Tensor Cores | RT Cores | Dimensions | Power & Thermal | Display Connectors | Max Displays | VR Ready | Quadro Sync II | NV Link | HW FP64 |
|--|-----------------|-----------------|------------------|------------|--------------|----------|-----------------|-----------------|-----------------------------|--------------------------|----------------------|----------------|---------|---------|
| NVIDIA PROFESSIONAL GRAPHICS ULTRA HIGH END | | | | | | | | | | | | | | |
| NVIDIA RTX A6000 <small>VR READY</small> | VCNRTXA6000-PB | 48 GB GDDR6 ECC | 768 GB/s | 10752 | 336 | 84 | 4.4" X 10.5" | 300 W - Active | DP 1.4 (4) | 4 | ● | ● | ● | |
| NVIDIA Quadro RTX 8000 <small>VR READY</small> | VCQRTX8000-PB | 48 GB GDDR6 ECC | 672 GB/s | 4608 | 576 | 72 | 4.4" X 10.5" | 295 W - Active | DP 1.4 (4), VirtualLink (1) | 4 | ● | ● | ● | |
| NVIDIA Quadro RTX 8000 Passive <small>VR READY</small> | VCQRTX8000P-KIT | 48 GB GDDR6 ECC | 672 GB/s | 4608 | 576 | 72 | 4.4" X 10.5" | 250 W - Passive | None ¹ | Subject to vGPU Software | NVIDIA vDWS Required | | ● | |
| NVIDIA Quadro RTX 6000 <small>VR READY</small> | VCQRTX6000-PB | 24 GB GDDR6 ECC | 672 GB/s | 4608 | 576 | 72 | 4.4" X 10.5" | 295 W - Active | DP 1.4 (4), VirtualLink (1) | 4 | ● | ● | ● | |
| NVIDIA Quadro RTX 6000 Passive <small>VR READY</small> | VCQRTX6000P-KIT | 24 GB GDDR6 ECC | 672 GB/s | 4608 | 576 | 72 | 4.4" X 10.5" | 250 W - Passive | None ¹ | Subject to vGPU Software | NVIDIA vDWS Required | | ● | |
| NVIDIA Quadro GV100 <small>VR READY</small> | VCQGV100-PB | 32 GB HBM2 ECC | 870 GB/s | 5120 | 640 | - | 4.4" X 10.5" | 250 W - Active | DP 1.4 (4) | 4 | ● | ● | ● | ● |
| NVIDIA PROFESSIONAL GRAPHICS HIGH END | | | | | | | | | | | | | | |
| NVIDIA RTX A5000 <small>VR READY</small> | VCNRTXA5000-PB | 24 GB GDDR6 ECC | 768 GB/s | 8192 | 256 | 64 | 4.4" x 10.5" | 230 W - Active | DP 1.4 (4) | 4 | ● | ● | ● | |
| NVIDIA Quadro RTX 5000 <small>VR READY</small> | VCQRTX5000-PB | 16 GB GDDR6 ECC | 448 GB/s | 3072 | 384 | 48 | 4.4" X 10.5" | 265 W - Active | DP 1.4 (4), VirtualLink (1) | 4 | ● | ● | ● | |
| NVIDIA PROFESSIONAL GRAPHICS MID RANGE | | | | | | | | | | | | | | |
| NVIDIA RTX A4000 <small>VR READY</small> | VCNRTXA4000-PB | 16 GB GDDR6 ECC | 448 GB/s | 6144 | 192 | 48 | 4.4" x 9.5" | 140 W - Active | DP 1.4 (4) | 4 | ● | ● | | |
| NVIDIA Quadro RTX 4000 <small>VR READY</small> | VCQRTX4000-PB | 8 GB GDDR6 | 416 GB/s | 2304 | 288 | 36 | 4.4" x 9.5" | 160 W - Active | DP 1.4 (3), VirtualLink (1) | 4 | ● | ● | | |
| NVIDIA Quadro P2200 | VCQP2200-SB | 5 GB GDDR5X | 200 GB/s | 1280 | - | - | 4.4" x 7.9" | 75 W - Active | DP (4) | 4 | | | | |
| NVIDIA T1000 <small>SFF*</small> | VCNT1000-PB | 4 GB GDDR6 | 160 GB/s | 896 | - | - | 2.713" x 6.137" | 50 W - Active | mDP (4) | 4 | | | | |
| NVIDIA Quadro P1000 V2 <small>SFF*</small> | VCQP1000V2-PB | 4 GB GDDR5 | 80 GB/s | 640 | - | - | 2.713" x 5.9" | 47 W - Active | mDP (4) | 4 | | | | |
| NVIDIA PROFESSIONAL GRAPHICS ENTRY LEVEL | | | | | | | | | | | | | | |
| NVIDIA T600 <small>SFF*</small> | VCNT600-PB | 4 GB GDDR6 | 160 GB/s | 640 | - | - | 2.713" x 6.137" | 40 W - Active | mDP (4) | 4 | | | | |
| NVIDIA Quadro P620 V2 <small>SFF*</small> | VCQP620V2-PB | 2 GB GDDR5 | 80 GB/s | 512 | - | - | 2.713" x 5.9" | 40 W - Active | mDP (4) | 4 | | | | |
| NVIDIA T400 <small>SFF*</small> | VCNT400-PB | 2 GB GDDR6 | 80 GB/s | 384 | - | - | 2.713" x 6.137" | 30 W - Active | mDP (3) | 4 ² | | | | |
| NVIDIA Quadro P400 V2 <small>SFF*</small> | VCQP400V2-PB | 2 GB GDDR5 | 32 GB/s | 256 | - | - | 2.713" x 5.9" | 30 W - Active | mDP (3) | 4 ² | | | | |

¹ An NVIDIA vGPU license is required for graphics display support, including Windows WDDM. RTX vDWS is recommended.

² NVIDIA T400 and Quadro P400 desktop GPUs can drive four displays via multi-stream transport (MST).

* Small Form Factor, also known as low profile

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| PRODUCTS | | NVIDIA A100 PCIe | NVIDIA A30 | NVIDIA A40 | NVIDIA A10 | NVIDIA T4 | NVIDIA A16 |
|---|---|--|--|---|---|---|--|
| PNY PART NUMBER | | NVA100TCGPU-KIT | NVA30TCGPU-KIT | NVA40TCGPU-KIT | NVA10TCGPU-KIT | TCST4-KIT | NVA16TCGPU-KIT |
| WORKLOAD DESCRIPTION | | Highest Performance Compute | Mainstream Compute | Highest Performance Graphics | Mainstream Graphics | Small Footprint Low Power | Optimized for VDI |
| Recommended Number of GPUs per Server | | | | | | | |
| Deep Learning (DL) Training and Data Analytics | For the absolute fastest model training and analytics | 4-8 GPUs 40GB: Bn+ parameter models (DLRM, GPT-2) | | | | | |
| DL Inference | For batch and real-time inference | 1-2 GPUs w/ multi-instance GPU (MIG) 40GB: large batch size constrained models (RNN-T) | 2-4 GPUs with MIG | | 4-8 GPUs | 4-8 GPUs | |
| High-Performance Computing (HPC) / AI | For Higher Education Research and scientific computing centers | 1-4 GPUs with MIG | 2-4 GPUs with MIG | | | | |
| Render Farms | For batch and real-time rendering | | | 4-8 GPUs | 4-8 GPUs | | |
| Graphics | For the best graphics performance on professional VDI | | | 2-4 GPUs for high-end virtual workstations* | 2-8 GPUs for mid-range virtual workstations* | 2-8 GPUs for entry-level virtual workstations* | 2-4 GPUs for highest virtual desktop user density** |
| Cloud Gaming | For 4K resolution / Android | | | 4-8 GPUs (4K resolution) | 4-8 GPUs (4K resolution) | 1-2 GPUs (Android) | |
| Enterprise Acceleration | For mixed workloads, including graphics, ML, DL, analytics, training, and inference | 1-2 GPUs with MIG for compute workloads | 1-2 GPUs with MIG for compute workloads | 1-2 GPUs for graphics-intensive workloads* | 1-2 GPUs for graphics-intensive* and compute workloads | 1-4 GPUs for balanced workloads* | |
| Edge Acceleration | For differing use cases and deployment locations | 1-2 GPUs with MIG | 1-2 GPUs with MIG | 1-4 GPUs for graphics-intensive workloads & AR / VR* | 1-8 GPUs for inference and video workloads | 1-8 GPUs for inference and video workloads | |

* NVIDIA RTX Virtual Workstation (vWS) software license required for virtual workstation workloads.

** NVIDIA Virtual PC (vPC) software license required for VDI workloads.

