

Products	Part Number	EDC	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	6514052	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	5494290	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	TBA	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	5716008	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	TBA	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-BLK	5268533	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	6514055	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	5475377	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	6513949	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	5470435	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 P2000	VCQP2000-PB	375843	5 GB GDDR5	200 GB/s	1024	-	-	4.4" x 7.7"	75 W - Active	DP (4)	4				
NVIDIA T1000 <small>SFF*</small>	VCNT1000-PB	6570677	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	6004051	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	6570688	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	6004238	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	6570692	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	5983423	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.
 PNY Technologies, Inc. 100 Jefferson Road, Parsippany, NJ 07054 | Tel 973-515-9700 | Fax 973-560-5590 | www.PNY.com
 Features and specifications subject to change without notice. The PNY logo is a registered trademark of PNY Technologies, Inc.
 All other trademarks are the property of their respective owners. ©2021 PNY Technologies, Inc. All rights reserved.

For more information, contact CDWCA@PNY.COM
WWW.PNY.COM/PRO-GRAPHICS





Linecard



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	TCSC4-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.

For more information, contact CDWCA@PNY.COM
WWW.PNY.COM/PRO-GRAPHICS

