

GPU Model	PNY Part Number	Form Factor	Interface	CUDA Cores	RT Cores	Tensor Cores	GPU Clock	GPU Boost Clock	GPU Memory	GPU Memory Bandwidth	ECC	Peak Graphics Performance (peak FP32)	Display Outputs	Max Single Display Resolution	Total Graphics Power	EOL Time Frame	MTBF (@25°C)
NVIDIA ADA LOVELACE ARCHITECTURE																	
NVIDIA RTX 2000 Ada Generation	NRTX2000ADA-8G-115W-B	MXM 3.1 Type B	PCIe 4.0 x4 / x8	3,072	24 Gen3	96 Gen4	2295 MHz	2355 MHz @115W	128-bit 8GB GDDR6	256 GBps	Supported	14.5 TFLOPS	3x DisplayPort 1.4a, HDMI2.1	7680 x 4320 @60MHz	115W	-Q1 2028	-130,029 hrs
NVIDIA RTX 2000 Ada Generation	NRTX2000ADA-8G-60W-B	MXM 3.1 Type A	PCIe 4.0 x4 / x8	3,072	24 Gen3	96 Gen4	1635 MHz	2115 MHz @60W	128-bit 8GB GDDR6	256 GBps	Supported	13.0 TFLOPS	3x DisplayPort 1.4a, HDMI2.1	7680 x 4320 @60MHz	60W	-Q1 2028	-132,451 hrs
NVIDIA RTX 2000 Ada Generation	NRTX2000ADA-8G-35W-B	MXM 3.1 Type A	PCIe 4.0 x4 / x8	3,072	24 Gen3	96 Gen4	1635 MHz	2115 MHz @60W	128-bit 8GB GDDR6	256 GBps	Supported	13.0 TFLOPS	3x DisplayPort 1.4a, HDMI2.1	7680 x 4320 @60MHz	35W	-Q1 2028	-132,451 hrs
NVIDIA RTX 3500 Ada Generation	NRTX3500ADA-12G-115W-B	MXM 3.1 Type B	PCIe 4.0 x8 / x16	5,120	40 Gen3	160 Gen4	1725 MHz	2250 MHz @115W	192-bit 12GB GDDR6	432 GBps	Supported	23.0 TFLOPS	4x DisplayPort 1.4a, HDMI2.1	7680 x 4320 @60MHz	115W	-Q1 2028	-104,645 hrs
NVIDIA RTX 5000 Ada Generation	NRTX5000ADA-16G-115W-B	MXM 3.1 Type B	PCIe 4.0 x8 / x16	9,728	76 Gen3	304 Gen4	1425 MHz	2115 MHz @115W	256-bit 16GB GDDR6	576 GBps	Supported	41.3 TFLOPS	4x DisplayPort 1.4a, HDMI2.1	7680 x 4320 @60MHz	115W	-Q1 2028	-95,196 hrs
NVIDIA AMPERE ARCHITECTURE																	
NVIDIA RTX A500	NRTXA500-4G-45W-B	MXM 3.1 Type A	PCIe 4.0 x4	2,048	16 Gen2	64 Gen3	1155 MHz	1777 MHz @45W	64-bit 4GB GDDR6	112 GBps	–	7.3 TFLOPS	–	7680 x 4320 @60MHz	45W	-Q1 2027	-133,785 hrs
NVIDIA RTX A1000	NRTXA1000-60W-KIT	MXM 3.1 Type A	PCIe 4.0 x4 / x8	2,048	16 Gen2	64 Gen3	1192 MHz	1627 MHz @60W	128-bit 4GB GDDR6	224 GBps	–	6.7 TFLOPS	4x DisplayPort 1.2, 1.4, HDMI2.1	7680 x 4320 @60MHz	60W	-Q1 2027	-109,809 hrs
NVIDIA RTX A2000	NRTXA2000-8G-50W-B	MXM 3.1 Type A	PCIe 4.0 x4 / x8	2,560	20 Gen2	80 Gen3	1087 MHz	1552 MHz @50W Max-Q	128-bit 8GB GDDR6	224 GBps	Supported	7.9 TFLOPS	4x DisplayPort 1.2, 1.4, HDMI2.1	7680 x 4320 @60MHz	50W Max-Q	-Q1 2027	-109,809 hrs
NVIDIA RTX A1000	NRTXA1000-4G-80W-B	MXM 3.1 Type B	PCIe 4.0 x4 / x8	2,048	16 Gen2	64 Gen3	1470 MHz	1822 MHz @80W	128-bit 4GB GDDR6	224 GBps	–	7.5 TFLOPS	4x DisplayPort 1.2, 1.4, HDMI2.1	7680 x 4320 @60MHz	80W	-Q1 2027	-107,992 hrs
NVIDIA RTX A2000	NRTXA2000-8G-80W-B	MXM 3.1 Type B	PCIe 4.0 x4 / x8	2,560	20 Gen2	80 Gen3	1387 MHz	1815 MHz @80W	128-bit 8GB GDDR6	224 GBps	Supported	9.3 TFLOPS	4x DisplayPort 1.2, 1.4, HDMI2.1	7680 x 4320 @60MHz	80W	-Q1 2027	-107,984 hrs
NVIDIA RTX A4500	NRTXA4500-16G-125W-B	MXM 3.1 Type B	PCIe 4.0 x8 / x16	5,888	46 Gen2	184 Gen3	1020 MHz	1575 MHz @125W	256-bit 16GB GDDR6	512 GBps	Supported	18.5 TFLOPS	5x DisplayPort 1.2, 1.4, HDMI2.1	7680 x 4320 @60MHz	125W	-Q1 2027	-79,902 hrs
NVIDIA TURING ARCHITECTURE																	
NVIDIA Quadro T1000	QT1000-KIT	MXM 3.1 Type A	PCIe 3.0 x8 / x16	896	–	–	1395 MHz	1650 MHz @50W	128-bit 4GB GDDR6	192 GBps	–	3.0 TFLOPS	4x DisplayPort 1.2, 1.4b, HDMI2.0	7680 x 4320 @60MHz	50W	-Q1 2026	-89,594 hrs
NVIDIA Quadro RTX 3000	QRTX3000-KIT	MXM 3.1 Type B	PCIe 3.0 x8 / x16	1,920	30 Gen1	240 Gen2	945 MHz	1380 MHz @80W	128-bit 6GB GDDR6	336 GBps	–	5.3 TFLOPS	5x DisplayPort 1.2, 1.4b, HDMI2.0	7680 x 4320 @60MHz	80W	-Q1 2026	-73,442 hrs
NVIDIA Quadro RTX 5000	QRTX5000-KIT	MXM 3.1 Type B	PCIe 3.0 x8 / x16	3,072	48 Gen1	384 Gen2	1035 MHz	1530 MHz @110W	128-bit 16GB GDDR6	448 GBps	–	9.5 TFLOPS	5x DisplayPort 1.2, 1.4b, HDMI2.0	7680 x 4320 @60MHz	110W	-Q1 2026	-68,260 hrs

