

# NVIDIA GPU Comparison

	GeForce RTX 2070	GeForce RTX 2080	GeForce RTX 2080 Ti	Quadro RTX 8000
Architecture	Turing	Turing	Turing	Turing
Year	2018	2018	2018	2018
Price	\$499	\$699	\$999	\$10000
FP32 Cores (FMAD)	2304	2944	4352	4608
Clock Base (Boost)	1.41GHz (1.62 GHz)	1.52 GHz (1.71 GHz)	1.35 GHz (1.55 GHz)	(>1.7 GHz)
GFLOPS (FP32) @base clock	6.50 (7.46) TFLOPS	8.92 (10.07) TFLOPS	11.75 (13.45) TFLOPS	(16.1) TFLOPS
Tensor Core FP16 FMAD	18432	23552	34816	36864
Deep Learning GFLOPS (FP16) @base clock	52 (60) TFLOPS	71 (81) TFLOPS	94 (108) TFLOPS	(125) TFLOPS
Ray Tracing Gray/sec	6 Gray/sec	8 Gray/sec	10 Gray/sec	10 Gray/sec
RTX-OPS	45T RTX-OPS	60T RTX-OPS	78T RTX-OPS	
Memory Bandwidth	448 GB/sec	448 GB/sec	616 GB/sec	672 GB/sec
NVLink		100GB/sec 2Links	100GB/sec 2Links	100GB/sec 2Links
TDP (Thermal Design Power)	175W	215W	250W	
Transistors	?	?	18.6B	18.6B
Die Size	?	?	754mm2	754mm2
Process Technology	12 nm	12 nm	12 nm	12 nm