AMD Radeon RX 6650 XT 8GB vs NVIDIA GeForce RTX 3060 12GB

Side by side datacenter GPU specifications from the Flopper.io database.

OVERVIEW

	AMD Radeon RX 6650 XT 8GB	NVIDIA GeForce RTX 3060 12GB
FP32 TFLOPS	**10.8**	**12.7**
Memory	**8 GB**	**12 GB**
Memory Bandwidth	**280 GB/s**	**—**
TDP	**180 W**	**170 W**

PERFORMANCE BY PRECISION

Precision	AMD Radeon RX 6650 XT 8GB peak TFLOPS (dense)	NVIDIA GeForce RTX 3060 12GB peak TFLOPS (dense)
FP64	—	0.2
FP32	10.8	12.7
TF32	—	12.7
BF16	—	25.5
FP16	21.6	25.5
FP8	—	—
FP6	—	—
FP4	—	—
INT8	—	101.9
INT4	—	203.8

SPECIFICATIONS

	AMD Radeon RX 6650 XT 8GB	NVIDIA GeForce RTX 3060 12GB
Architecture	RDNA 2	Ampere
Process Node	7nm	8nm
Launch Year	2022	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6

	AMD Radeon RX 6650 XT 8GB	NVIDIA GeForce RTX 3060 12GB
Interface Width	128-bit	192-bit
Interconnect	–	–
TDP	180 W	170 W
FP32 Efficiency	0.06 TFLOPS/W	0.07 TFLOPS/W