



Intel Arc B580 12GB vs NVIDIA GeForce RTX 5070 12GB

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

OVERVIEW

	Intel Arc B580 12GB	NVIDIA GeForce RTX 5070 12GB
FP32 TFLOPS	—	30.9
Memory	12 GB	12 GB
Memory Bandwidth	456 GB/s	672 GB/s
TDP	190 W	250 W

PERFORMANCE BY PRECISION

Precision	Intel Arc B580 12GB peak TFLOPS (dense)	NVIDIA GeForce RTX 5070 12GB peak TFLOPS (dense)
FP64	—	0.5
FP32	—	30.9
TF32	—	30.9
BF16	—	61.7
FP16	—	123.5
FP8	—	246.9
FP6	—	—
FP4	—	493.9
INT8	233.0	246.9

SPECIFICATIONS

	Intel Arc B580 12GB	NVIDIA GeForce RTX 5070 12GB
Architecture	Battlemage	Blackwell
Process Node	5nm	4nm
Launch Year	2024	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR7
Interface Width	192-bit	192-bit
Interconnect	—	—

	Intel Arc B580 12GB	NVIDIA GeForce RTX 5070 12GB
TDP	190 W	250 W
FP32 Efficiency	—	0.12 TFLOPS/W