Intel Arc A770 8GB vs NVIDIA GeForce RTX 5070 12GB

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

OVERVIEW

	Intel Arc A770 8GB	NVIDIA GeForce RTX 5070 12GB
FP32 TFLOPS	–	**30.9**
Memory	**8 GB**	**12 GB**
Memory Bandwidth	**512 GB/s**	**672 GB/s**
TDP	**225 W**	**250 W**

PERFORMANCE BY PRECISION

Precision	Intel Arc A770 8GB 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	262.0	246.9

SPECIFICATIONS

	Intel Arc A770 8GB	NVIDIA GeForce RTX 5070 12GB
Architecture	Alchemist	Blackwell
Process Node	6nm	4nm
Launch Year	2022	2025
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR7
Interface Width	256-bit	192-bit
Interconnect	–	–

	Intel Arc A770 8GB	NVIDIA GeForce RTX 5070 12GB
TDP	225 W	250 W
FP32 Efficiency	–	0.12 TFLOPS/W