Intel Arc Pro A40 6GB vs NVIDIA RTX A2000 6GB

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

OVERVIEW

	Intel Arc Pro A40 6GB	NVIDIA RTX A2000 6GB
FP32 TFLOPS	**5.0**	**8.0**
Memory	**6 GB**	**6 GB**
Memory Bandwidth	**192 GB/s**	**288 GB/s**
TDP	**50 W**	**70 W**

PERFORMANCE BY PRECISION

Precision	Intel Arc Pro A40 6GB peak TFLOPS (dense)	NVIDIA RTX A2000 6GB peak TFLOPS (dense)
FP64	—	0.1
FP32	5.0	8.0
TF32	—	—
BF16	—	—
FP16	—	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	69.0	—

SPECIFICATIONS

	Intel Arc Pro A40 6GB	NVIDIA RTX A2000 6GB
Architecture	Alchemist	Ampere
Process Node	6nm	8nm
Launch Year	2022	2021
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	96-bit	192-bit
Interconnect	—	—

	Intel Arc Pro A40 6GB	NVIDIA RTX A2000 6GB
TDP	50 W	70 W
FP32 Efficiency	0.10 TFLOPS/W	0.11 TFLOPS/W