



Intel Arc Pro B50 16GB vs Intel Arc B580 12GB

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

OVERVIEW

	Intel Arc Pro B50 16GB	Intel Arc B580 12GB
FP32 TFLOPS	10.7	—
VRAM	16 GB	12 GB
Memory Bandwidth	224 GB/s	456 GB/s
TDP	70 W	190 W

PERFORMANCE BY PRECISION

Precision	Intel Arc Pro B50 16GB peak TFLOPS (dense)	Intel Arc B580 12GB peak TFLOPS (dense)
FP64	—	—
FP32	10.7	—
TF32	—	—
BF16	—	—
FP16	—	—
FP8	—	—
FP6	—	—
FP4	—	—
INT8	170.0	233.0

SPECIFICATIONS

	Intel Arc Pro B50 16GB	Intel Arc B580 12GB
Architecture	Battlemage	Battlemage
Process Node	5nm	5nm
Launch Year	2025	2024
Form Factor	PCIe	PCIe
Memory Type	GDDR6	GDDR6
Interface Width	128-bit	192-bit
Interconnect	—	—

	Intel Arc Pro B50 16GB	Intel Arc B580 12GB
TDP	70 W	190 W
FP32 Efficiency	0.15 TFLOPS/W	—