



AMD Instinct MI300A 128GB vs AMD Instinct MI300X 192GB

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

OVERVIEW

	AMD Instinct MI300A 128GB	AMD Instinct MI300X 192GB
FP32 TFLOPS	122.6	163.4
VRAM	128 GB	192 GB
Memory Bandwidth	5.3 TB/s	5.3 TB/s
TDP	760 W	750 W

PERFORMANCE BY PRECISION

Precision	AMD Instinct MI300A 128GB peak TFLOPS (dense)	AMD Instinct MI300X 192GB peak TFLOPS (dense)
INT8	1961.2	2614.9
FP8	1961.2	2614.9
FP16	980.6	1307.4
BF16	980.6	1307.4
TF32	490.3	653.7
FP32	122.6	163.4
FP64	61.3	81.7

SPECIFICATIONS

	AMD Instinct MI300A 128GB	AMD Instinct MI300X 192GB
Architecture	CDNA 3	CDNA 3
Process Node	5nm FinFET	5nm FinFET
Launch Year	2023	2023
Form Factor	APU SH5 socket	OAM
Memory Type	—	—
Interface Width	—	—
Interconnect	—	—
TDP	760 W	750 W

	AMD Instinct MI300A 128GB	AMD Instinct MI300X 192GB
FP32 Efficiency	0.16 TFLOPS/W	0.22 TFLOPS/W