



AMD Instinct MI250 128GB vs AMD Instinct MI300A 128GB

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

OVERVIEW

	AMD Instinct MI250 128GB	AMD Instinct MI300A 128GB
FP32 TFLOPS	45.3	122.6
Memory	128 GB	128 GB
Memory Bandwidth	3.3 TB/s	5.3 TB/s
TDP	500 W	760 W

PERFORMANCE BY PRECISION

Precision	AMD Instinct MI250 128GB peak TFLOPS (dense)	AMD Instinct MI300A 128GB peak TFLOPS (dense)
FP64	45.3	61.3
FP32	45.3	122.6
TF32	—	490.3
BF16	362.1	980.6
FP16	362.1	980.6
FP8	—	1961.2
FP6	—	—
FP4	—	—
INT8	362.1	1961.2
INT4	362.1	—

SPECIFICATIONS

	AMD Instinct MI250 128GB	AMD Instinct MI300A 128GB
Architecture	CDNA 2	CDNA 3
Process Node	6nm	5nm FinFET
Launch Year	2021	2023
Form Factor	OAM	APU SH5 socket
Memory Type	HBM2e	—
Interface Width	—	—

	AMD Instinct MI250 128GB	AMD Instinct MI300A 128GB
Interconnect	—	—
TDP	500 W	760 W
FP32 Efficiency	0.09 TFLOPS/W	0.16 TFLOPS/W