

Intel Arc A580 8GB

Alchemist

PCIe

2023

6nm

OVERVIEW

—	8 GB	512 GB/s	185 W
FP32 TFLOPS	VRAM GDDR6	Memory Bandwidth	TDP

PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	—	—	Standard
FP32	—	—	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	—	—	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	197.0	8	Standard

MEMORY SPECIFICATIONS

Capacity	8 GB
Type	GDDR6
Bandwidth	512 GB/s
Interface Width	256-bit

POWER & EFFICIENCY

TDP	185 W
Max Power	185 W
FP32 Efficiency	—
FP16 Efficiency	—

HARDWARE DETAILS

Vendor: Intel	Architecture: Alchemist	Process Node: 6nm
Form Factor: PCIe	Launch Year: 2023	Variant: 8GB

COMPUTE ENGINE

Xe Cores: 24	Tensor Cores: 384 (Xe-HPG XMN)	Boost Clock: 1.70 GHz
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INTERCONNECT

PCIe: 4.0 x16

ENTERPRISE FEATURES

Sparsity: **No**
