



AMD Radeon RX 7800 XT 16GB

RDNA 3 PCIe 2023 5nm

OVERVIEW

37.3 FP32 TFLOPS	16 GB VRAM GDDR6	624 GB/s Memory Bandwidth	263 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	—	—	Standard
FP32	37.3	32	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	74.6	16	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	74.6	8	Standard
INT4	149.0	4	Standard

MEMORY SPECIFICATIONS

Capacity	16 GB	TDP	263 W
Type	GDDR6	Max Power	263 W
Bandwidth	624 GB/s	FP32 Efficiency	0.14 TFLOPS/W
Interface Width	256-bit	FP16 Efficiency	0.28 TFLOPS/W

POWER & EFFICIENCY

HARDWARE DETAILS

Vendor: AMD	Architecture: RDNA 3	Process Node: 5nm
Form Factor: PCIe	Launch Year: 2023	Variant: 16GB

COMPUTE ENGINE

Stream Processors: 3,840	Tensor Cores: 120 (RDNA 3)	CUs: 60
Boost Clock: 2.43 GHz		

INTERCONNECT

PCIe: Gen 4 x16

CHIP DESIGN

Transistors: 28.1 billion

ENTERPRISE FEATURES

Sparsity: No