



AMD Radeon RX 7900 GRE 16GB

RDNA 3

PCIe

2023

5nm

OVERVIEW

46.0 FP32 TFLOPS	16 GB VRAM GDDR6	576 GB/s Memory Bandwidth	260 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	—	—	Standard
FP32	46.0	32	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	92.0	16	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	92.0	8	Standard
INT4	184.0	4	Standard

MEMORY SPECIFICATIONS

Capacity	16 GB	TDP	260 W
Type	GDDR6	Max Power	260 W
Bandwidth	576 GB/s	FP32 Efficiency	0.18 TFLOPS/W
Interface Width	256-bit	FP16 Efficiency	0.35 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: 5,120	Tensor Cores: 160 (RDNA 3)	CUs: 80
Boost Clock: 2.25 GHz		

INTERCONNECT

PCIe: Gen 4 x16

CHIP DESIGN

Transistors: 54.0 billion

ENTERPRISE FEATURES

Sparsity: No