



AMD Radeon AI PRO R9700S 32GB

RDNA 4 PCIe 2025

OVERVIEW

47.8 FP32 TFLOPS	32 GB Memory GDDR6	640 GB/s Memory Bandwidth	300 W TDP
---------------------	-----------------------	------------------------------	--------------

PERFORMANCE METRICS

Precision	Peak (dense)	2:4 Sparse	Bits	Type
FP64	—	N/A	—	Standard
FP32	47.8	N/A	32	Standard
TF32	—	not published	—	Standard
BF16	—	not published	—	Standard
FP16	191.0	383.0	16	Standard
FP8	383.0	766.0	8	Standard
FP6	—	not published	—	Standard
FP4	—	not published	—	Standard
INT8	383.0	766.0	8	Standard
INT4	766.0	1531.0	4	Standard

MEMORY SPECIFICATIONS

Capacity	32 GB
Type	GDDR6
Bandwidth	640 GB/s
Interface Width	256-bit

POWER & EFFICIENCY

TDP	300 W
Max power	300 W
FP32 dense TFLOPS per W of TDP	0.16 TFLOPS/W
FP16 dense TFLOPS per W of TDP	0.64 TFLOPS/W
Per W of TDP figures divide dense peak by accelerator TDP. Board power only: excludes host CPUs, networking, cooling and facility overhead.	

HARDWARE DETAILS

Vendor: AMD	Architecture: RDNA 4	Process Node: —
Form Factor: PCIe	Launch Year: 2025	Variant: 32GB

COMPUTE ENGINE

Stream Processors: 4,096

Tensor Cores: 128 (RDNA 4)

CUs: 64

Boost Clock: 2.92 GHz

INTERCONNECT

PCIe: Gen 5 x16

CHIP DESIGN

Transistors: 53.9 billion

ENTERPRISE FEATURES

ECC: Yes

Sparsity: Yes