



AMD Radeon VII 16GB

Vega PCIe 2019 7nm

OVERVIEW

13.8 FP32 TFLOPS	16 GB VRAM HBM2	1.0 TB/s Memory Bandwidth	300 W TDP
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PERFORMANCE METRICS

Precision	Peak (dense)	Bits	Type
FP64	3.5	64	Standard
FP32	13.8	32	Standard
TF32	—	—	Standard
BF16	—	—	Standard
FP16	27.7	16	Standard
FP8	—	—	Standard
FP6	—	—	Standard
FP4	—	—	Standard
INT8	—	—	Standard

MEMORY SPECIFICATIONS

Capacity	16 GB
Type	HBM2
Bandwidth	1.0 TB/s
Interface Width	4096-bit

POWER & EFFICIENCY

TDP	300 W
Est. Max Power	345 W
FP32 Efficiency	0.05 TFLOPS/W
FP16 Efficiency	0.09 TFLOPS/W

HARDWARE DETAILS

Vendor: AMD	Architecture: Vega	Process Node: 7nm
Form Factor: PCIe	Launch Year: 2019	Variant: 16GB

COMPUTE ENGINE

Stream Processors: 3,840	CUs: 60	Base Clock: 1.40 GHz
Boost Clock: 1.75 GHz		

CHIP DESIGN

Transistors: 13.2 billion	Chiplets: 1 (Monolithic)
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ENTERPRISE FEATURES

Sparsity: No
