

# AMD Radeon RX 9070 XT 16GB vs AMD Radeon RX 9070 GRE 12GB

Side by side datacenter GPU specifications from the Flopper.io database.

## OVERVIEW

|                  | AMD Radeon RX 9070 XT 16GB | AMD Radeon RX 9070 GRE 12GB |
|------------------|----------------------------|-----------------------------|
| FP32 TFLOPS      | 48.7                       | 34.3                        |
| VRAM             | 16 GB                      | 12 GB                       |
| Memory Bandwidth | 640 GB/s                   | 432 GB/s                    |
| TDP              | 304 W                      | 220 W                       |

## PERFORMANCE BY PRECISION

| Precision | AMD Radeon RX 9070 XT 16GB peak TFLOPS (dense) | AMD Radeon RX 9070 GRE 12GB peak TFLOPS (dense) |
|-----------|------------------------------------------------|-------------------------------------------------|
| FP64      | —                                              | —                                               |
| FP32      | 48.7                                           | 34.3                                            |
| TF32      | —                                              | —                                               |
| BF16      | —                                              | —                                               |
| FP16      | 195.0                                          | 137.0                                           |
| FP8       | 389.0                                          | 274.0                                           |
| FP6       | —                                              | —                                               |
| FP4       | —                                              | —                                               |
| INT8      | 389.0                                          | 274.0                                           |
| INT4      | 779.0                                          | 549.0                                           |

## SPECIFICATIONS

|              | AMD Radeon RX 9070 XT 16GB | AMD Radeon RX 9070 GRE 12GB |
|--------------|----------------------------|-----------------------------|
| Architecture | RDNA 4                     | RDNA 4                      |
| Process Node | —                          | —                           |
| Launch Year  | 2025                       | 2025                        |
| Form Factor  | PCIe                       | PCIe                        |

|                 | AMD Radeon RX 9070 XT 16GB | AMD Radeon RX 9070 GRE 12GB |
|-----------------|----------------------------|-----------------------------|
| Memory Type     | GDDR6                      | GDDR6                       |
| Interface Width | 256-bit                    | 192-bit                     |
| Interconnect    | —                          | —                           |
| TDP             | 304 W                      | 220 W                       |
| FP32 Efficiency | 0.16 TFLOPS/W              | 0.16 TFLOPS/W               |