

# AMD Radeon RX 6950 XT 16GB vs AMD Radeon RX 6900 XT 16GB

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

## OVERVIEW

|                  | AMD Radeon RX 6950 XT 16GB | AMD Radeon RX 6900 XT 16GB |
|------------------|----------------------------|----------------------------|
| FP32 TFLOPS      | 23.6                       | 23.0                       |
| VRAM             | 16 GB                      | 16 GB                      |
| Memory Bandwidth | 576 GB/s                   | 512 GB/s                   |
| TDP              | 335 W                      | 300 W                      |

## PERFORMANCE BY PRECISION

| Precision | AMD Radeon RX 6950 XT 16GB peak TFLOPS (dense) | AMD Radeon RX 6900 XT 16GB peak TFLOPS (dense) |
|-----------|------------------------------------------------|------------------------------------------------|
| FP64      | —                                              | —                                              |
| FP32      | 23.6                                           | 23.0                                           |
| TF32      | —                                              | —                                              |
| BF16      | —                                              | —                                              |
| FP16      | 47.3                                           | 46.1                                           |
| FP8       | —                                              | —                                              |
| FP6       | —                                              | —                                              |
| FP4       | —                                              | —                                              |
| INT8      | —                                              | —                                              |

## SPECIFICATIONS

|                 | AMD Radeon RX 6950 XT 16GB | AMD Radeon RX 6900 XT 16GB |
|-----------------|----------------------------|----------------------------|
| Architecture    | RDNA 2                     | RDNA 2                     |
| Process Node    | 7nm                        | 7nm                        |
| Launch Year     | 2022                       | 2020                       |
| Form Factor     | PCIe                       | PCIe                       |
| Memory Type     | GDDR6                      | GDDR6                      |
| Interface Width | 256-bit                    | 256-bit                    |

|                 | AMD Radeon RX 6950 XT 16GB | AMD Radeon RX 6900 XT 16GB |
|-----------------|----------------------------|----------------------------|
| Interconnect    | —                          | —                          |
| TDP             | 335 W                      | 300 W                      |
| FP32 Efficiency | 0.07 TFLOPS/W              | 0.08 TFLOPS/W              |