



# NVIDIA GeForce RTX 4080 Super 16GB vs NVIDIA RTX 6000 Ada 48GB

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

## OVERVIEW

|                  | NVIDIA GeForce RTX 4080 Super 16GB | NVIDIA RTX 6000 Ada 48GB |
|------------------|------------------------------------|--------------------------|
| FP32 TFLOPS      | 52.2                               | 91.1                     |
| VRAM             | 16 GB                              | 48 GB                    |
| Memory Bandwidth | 736 GB/s                           | 960 GB/s                 |
| TDP              | 320 W                              | 300 W                    |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA GeForce RTX 4080 Super 16GB peak TFLOPS (dense) | NVIDIA RTX 6000 Ada 48GB peak TFLOPS (dense) |
|-----------|--------------------------------------------------------|----------------------------------------------|
| INT8      | 208.9                                                  | —                                            |
| FP8       | 208.9                                                  | 728.5                                        |
| FP16      | 104.4                                                  | —                                            |
| BF16      | 104.4                                                  | —                                            |
| TF32      | 52.2                                                   | —                                            |
| FP32      | 52.2                                                   | 91.1                                         |
| FP64      | 0.8                                                    | —                                            |

## SPECIFICATIONS

|                 | NVIDIA GeForce RTX 4080 Super 16GB | NVIDIA RTX 6000 Ada 48GB |
|-----------------|------------------------------------|--------------------------|
| Architecture    | Ada Lovelace                       | Ada Lovelace             |
| Process Node    | 4nm                                | 4nm                      |
| Launch Year     | 2024                               | 2023                     |
| Form Factor     | PCIe                               | PCIe                     |
| Memory Type     | —                                  | —                        |
| Interface Width | —                                  | —                        |
| Interconnect    | —                                  | —                        |

|                 | NVIDIA GeForce RTX 4080 Super 16GB | NVIDIA RTX 6000 Ada 48GB |
|-----------------|------------------------------------|--------------------------|
| TDP             | 320 W                              | 300 W                    |
| FP32 Efficiency | 0.16 TFLOPS/W                      | 0.30 TFLOPS/W            |