



# NVIDIA RTX 4000 SFF Ada 20GB vs NVIDIA RTX 5000 Ada 32GB

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

## OVERVIEW

|                  | NVIDIA RTX 4000 SFF Ada 20GB | NVIDIA RTX 5000 Ada 32GB |
|------------------|------------------------------|--------------------------|
| FP32 TFLOPS      | 19.2                         | 65.3                     |
| Memory           | 20 GB                        | 32 GB                    |
| Memory Bandwidth | 280 GB/s                     | 576 GB/s                 |
| TDP              | 70 W                         | 250 W                    |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA RTX 4000 SFF Ada 20GB peak TFLOPS (dense) | NVIDIA RTX 5000 Ada 32GB peak TFLOPS (dense) |
|-----------|--------------------------------------------------|----------------------------------------------|
| FP64      | 0.3                                              | —                                            |
| FP32      | 19.2                                             | 65.3                                         |
| TF32      | —                                                | —                                            |
| BF16      | —                                                | —                                            |
| FP16      | —                                                | —                                            |
| FP8       | 153.4                                            | 522.2                                        |
| FP6       | —                                                | —                                            |
| FP4       | —                                                | —                                            |
| INT8      | —                                                | —                                            |

## SPECIFICATIONS

|                 | NVIDIA RTX 4000 SFF Ada 20GB | NVIDIA RTX 5000 Ada 32GB |
|-----------------|------------------------------|--------------------------|
| Architecture    | Ada Lovelace                 | Ada Lovelace             |
| Process Node    | 4nm                          | 4nm                      |
| Launch Year     | 2023                         | 2023                     |
| Form Factor     | PCIe                         | PCIe                     |
| Memory Type     | GDDR6                        | —                        |
| Interface Width | 160-bit                      | 256-bit                  |
| Interconnect    | —                            | —                        |

|                 | NVIDIA RTX 4000 SFF Ada 20GB | NVIDIA RTX 5000 Ada 32GB |
|-----------------|------------------------------|--------------------------|
| TDP             | 70 W                         | 250 W                    |
| FP32 Efficiency | 0.27 TFLOPS/W                | 0.26 TFLOPS/W            |