# NVIDIA GeForce RTX 4080 16GB vs NVIDIA RTX 5880 Ada 48GB

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

## OVERVIEW

| | NVIDIA GeForce RTX 4080 16GB | NVIDIA RTX 5880 Ada 48GB |
|---|---|---|
| FP32 TFLOPS | **48.7** | **69.3** |
| Memory | **16 GB** | **48 GB** |
| Memory Bandwidth | **717 GB/s** | **960 GB/s** |
| TDP | **320 W** | **285 W** |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA GeForce RTX 4080 16GB peak TFLOPS (dense) | NVIDIA RTX 5880 Ada 48GB peak TFLOPS (dense) |
|---|---|---|
| FP64 | 0.7 | — |
| FP32 | 48.7 | 69.3 |
| TF32 | 48.7 | — |
| BF16 | 97.5 | — |
| FP16 | 97.5 | — |
| FP8 | 195.0 | 554.2 |
| FP6 | — | — |
| FP4 | — | — |
| INT8 | 389.9 | — |

## SPECIFICATIONS

| | NVIDIA GeForce RTX 4080 16GB | NVIDIA RTX 5880 Ada 48GB |
|---|---|---|
| Architecture | Ada Lovelace | Ada Lovelace |
| Process Node | 4nm | 4nm |
| Launch Year | 2022 | 2024 |
| Form Factor | PCIe | PCIe |
| Memory Type | — | GDDR6 |
| Interface Width | — | 384-bit |
| Interconnect | — | — |

| | NVIDIA GeForce RTX 4080 16GB | NVIDIA RTX 5880 Ada 48GB |
|---|---|---|
| TDP | 320 W | 285 W |
| FP32 Efficiency | 0.15 TFLOPS/W | 0.24 TFLOPS/W |