

# NVIDIA Titan RTX 24GB vs NVIDIA GeForce RTX 2080 Super 8GB

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

## OVERVIEW

|                  | NVIDIA Titan RTX 24GB | NVIDIA GeForce RTX 2080 Super 8GB |
|------------------|-----------------------|-----------------------------------|
| FP32 TFLOPS      | 16.3                  | 11.2                              |
| VRAM             | 24 GB                 | 8 GB                              |
| Memory Bandwidth | 672 GB/s              | 496 GB/s                          |
| TDP              | 280 W                 | 250 W                             |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA Titan RTX 24GB peak TFLOPS (dense) | NVIDIA GeForce RTX 2080 Super 8GB peak TFLOPS (dense) |
|-----------|-------------------------------------------|-------------------------------------------------------|
| FP64      | 0.5                                       | 0.3                                                   |
| FP32      | 16.3                                      | 11.2                                                  |
| TF32      | —                                         | —                                                     |
| BF16      | —                                         | —                                                     |
| FP16      | 130.5                                     | 44.6                                                  |
| FP8       | —                                         | —                                                     |
| FP6       | —                                         | —                                                     |
| FP4       | —                                         | —                                                     |
| INT8      | 261.0                                     | 178.4                                                 |
| INT4      | 522.0                                     | 356.8                                                 |

## SPECIFICATIONS

|                 | NVIDIA Titan RTX 24GB | NVIDIA GeForce RTX 2080 Super 8GB |
|-----------------|-----------------------|-----------------------------------|
| Architecture    | Turing                | Turing                            |
| Process Node    | 12nm                  | 12nm                              |
| Launch Year     | 2018                  | 2019                              |
| Form Factor     | PCIe                  | PCIe                              |
| Memory Type     | GDDR6                 | GDDR6                             |
| Interface Width | 384-bit               | 256-bit                           |

|                 | NVIDIA Titan RTX 24GB | NVIDIA GeForce RTX 2080 Super 8GB |
|-----------------|-----------------------|-----------------------------------|
| Interconnect    | NVLink                | NVLink                            |
| TDP             | 280 W                 | 250 W                             |
| FP32 Efficiency | 0.06 TFLOPS/W         | 0.04 TFLOPS/W                     |