



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

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

## OVERVIEW

|                  | NVIDIA GeForce RTX 2080 8GB | NVIDIA Titan RTX 24GB |
|------------------|-----------------------------|-----------------------|
| FP32 TFLOPS      | 10.6                        | 16.3                  |
| VRAM             | 8 GB                        | 24 GB                 |
| Memory Bandwidth | 448 GB/s                    | 672 GB/s              |
| TDP              | 225 W                       | 280 W                 |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA GeForce RTX 2080 8GB peak TFLOPS (dense) | NVIDIA Titan RTX 24GB peak TFLOPS (dense) |
|-----------|-------------------------------------------------|-------------------------------------------|
| FP64      | 0.3                                             | 0.5                                       |
| FP32      | 10.6                                            | 16.3                                      |
| TF32      | —                                               | —                                         |
| BF16      | —                                               | —                                         |
| FP16      | 42.4                                            | 130.5                                     |
| FP8       | —                                               | —                                         |
| FP6       | —                                               | —                                         |
| FP4       | —                                               | —                                         |
| INT8      | 169.6                                           | 261.0                                     |
| INT4      | 339.1                                           | 522.0                                     |

## SPECIFICATIONS

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

|                 | NVIDIA GeForce RTX 2080 8GB | NVIDIA Titan RTX 24GB |
|-----------------|-----------------------------|-----------------------|
| Interconnect    | NVLink                      | NVLink                |
| TDP             | 225 W                       | 280 W                 |
| FP32 Efficiency | 0.05 TFLOPS/W               | 0.06 TFLOPS/W         |