

# NVIDIA GeForce RTX 5070 12GB vs NVIDIA GB200 Grace Blackwell Superchip 372GB

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

## OVERVIEW

|                  | NVIDIA GeForce RTX 5070 12GB | NVIDIA GB200 Grace Blackwell Superchip 372GB |
|------------------|------------------------------|----------------------------------------------|
| FP32 TFLOPS      | 30.9                         | 160.0                                        |
| VRAM             | 12 GB                        | 372 GB                                       |
| Memory Bandwidth | 672 GB/s                     | 16.0 TB/s                                    |
| TDP              | 250 W                        | —                                            |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA GeForce RTX 5070 12GB peak TFLOPS (dense) | NVIDIA GB200 Grace Blackwell Superchip 372GB peak TFLOPS (dense) |
|-----------|--------------------------------------------------|------------------------------------------------------------------|
| FP64      | 0.5                                              | 80.0                                                             |
| FP32      | 30.9                                             | 160.0                                                            |
| TF32      | 30.9                                             | 2500.0                                                           |
| BF16      | 61.7                                             | 5000.0                                                           |
| FP16      | 123.5                                            | 5000.0                                                           |
| FP8       | 246.9                                            | 10000.0                                                          |
| FP6       | —                                                | 10000.0                                                          |
| FP4       | 493.9                                            | 20000.0                                                          |
| INT8      | 246.9                                            | 10000.0                                                          |

## SPECIFICATIONS

|              | NVIDIA GeForce RTX 5070 12GB | NVIDIA GB200 Grace Blackwell Superchip 372GB |
|--------------|------------------------------|----------------------------------------------|
| Architecture | Blackwell                    | Blackwell                                    |
| Process Node | 4nm                          | 4nm                                          |
| Launch Year  | 2025                         | 2024                                         |
| Form Factor  | PCIe                         | Superchip                                    |
| Memory Type  | GDDR7                        | HBM3e                                        |

|                 | NVIDIA GeForce RTX 5070 12GB | NVIDIA GB200 Grace Blackwell Superchip 372GB |
|-----------------|------------------------------|----------------------------------------------|
| Interface Width | 192-bit                      | —                                            |
| Interconnect    | —                            | NVLink-C2C                                   |
| TDP             | 250 W                        | —                                            |
| FP32 Efficiency | 0.12 TFLOPS/W                | —                                            |