

# NVIDIA RTX PRO 4500 Blackwell Server Edition vs NVIDIA B200 SXM 180GB

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

## OVERVIEW

|                  | NVIDIA RTX PRO 4500 Blackwell Server Edition | NVIDIA B200 SXM 180GB |
|------------------|----------------------------------------------|-----------------------|
| FP32 TFLOPS      | 51.0                                         | 75.0                  |
| Memory           | 32 GB                                        | 180 GB                |
| Memory Bandwidth | 800 GB/s                                     | 7.7 TB/s              |
| TDP              | 165 W                                        | 1.0 kW                |

## PERFORMANCE BY PRECISION

| Precision | NVIDIA RTX PRO 4500 Blackwell Server Edition peak TFLOPS (dense) | NVIDIA B200 SXM 180GB peak TFLOPS (dense) |
|-----------|------------------------------------------------------------------|-------------------------------------------|
| FP64      | —                                                                | 37.0                                      |
| FP32      | 51.0                                                             | 75.0                                      |
| TF32      | 101.5                                                            | 1125.0                                    |
| BF16      | 203.0                                                            | 2250.0                                    |
| FP16      | 203.0                                                            | 2250.0                                    |
| FP8       | 405.5                                                            | 4500.0                                    |
| FP6       | —                                                                | 4500.0                                    |
| FP4       | 800.0                                                            | 9000.0                                    |
| INT8      | —                                                                | 4500.0                                    |

## SPECIFICATIONS

|              | NVIDIA RTX PRO 4500 Blackwell Server Edition | NVIDIA B200 SXM 180GB |
|--------------|----------------------------------------------|-----------------------|
| Architecture | Blackwell                                    | Blackwell             |
| Process Node | 4nm                                          | 4nm                   |
| Launch Year  | 2026                                         | 2024                  |
| Form Factor  | PCIe                                         | SXM                   |
| Memory Type  | GDDR7                                        | —                     |

|                 | NVIDIA RTX PRO 4500 Blackwell Server Edition | NVIDIA B200 SXM 180GB |
|-----------------|----------------------------------------------|-----------------------|
| Interface Width | 256-bit                                      | —                     |
| Interconnect    | —                                            | —                     |
| TDP             | 165 W                                        | 1.0 kW                |
| FP32 Efficiency | 0.31 TFLOPS/W                                | 0.07 TFLOPS/W         |