



# NVIDIA H20 141GB HBM3e vs NVIDIA GH200 144GB HBM3e

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

## OVERVIEW

|                  | NVIDIA H20 141GB HBM3e | NVIDIA GH200 144GB HBM3e |
|------------------|------------------------|--------------------------|
| FP32 TFLOPS      | 44.0                   | 67.0                     |
| VRAM             | 141 GB                 | 144 GB                   |
| Memory Bandwidth | 4.0 TB/s               | 4.9 TB/s                 |
| TDP              | 400 W                  | 1.0 kW                   |

## PERFORMANCE BY PRECISION

| Precision              | NVIDIA H20 141GB HBM3e peak TFLOPS (dense) | NVIDIA GH200 144GB HBM3e peak TFLOPS (dense) |
|------------------------|--------------------------------------------|----------------------------------------------|
| FP64                   | 1.0                                        | 34.0                                         |
| FP64_TC<br>Tensor Core | —                                          | 67.0                                         |
| FP32                   | 44.0                                       | 67.0                                         |
| TF32                   | 74.0                                       | 494.0                                        |
| BF16                   | 148.0                                      | 990.0                                        |
| FP16                   | 148.0                                      | 990.0                                        |
| FP8                    | 296.0                                      | 1979.0                                       |
| FP6                    | —                                          | —                                            |
| FP4                    | —                                          | —                                            |
| INT8                   | 296.0                                      | 1979.0                                       |

## SPECIFICATIONS

|              | NVIDIA H20 141GB HBM3e | NVIDIA GH200 144GB HBM3e |
|--------------|------------------------|--------------------------|
| Architecture | Hopper                 | Hopper                   |
| Process Node | 4nm                    | 4nm                      |
| Launch Year  | 2025                   | 2024                     |
| Form Factor  | SXM                    | Superchip                |
| Memory Type  | HBM3e                  | HBM3e                    |

|                 | NVIDIA H20 141GB HBM3e | NVIDIA GH200 144GB HBM3e |
|-----------------|------------------------|--------------------------|
| Interface Width | —                      | —                        |
| Interconnect    | NVLink                 | NVLink-C2C               |
| TDP             | 400 W                  | 1.0 kW                   |
| FP32 Efficiency | 0.11 TFLOPS/W          | 0.07 TFLOPS/W            |