# Google TPU v6e 32GB vs NVIDIA H100 SXM5 80GB

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

## OVERVIEW

| | Google TPU v6e 32GB | NVIDIA H100 SXM5 80GB |
|---|---|---|
| FP32 TFLOPS | – | **67.0** |
| Memory | **32 GB** | **80 GB** |
| Memory Bandwidth | **1.6 TB/s** | **3.4 TB/s** |
| TDP | – | **700 W** |

## PERFORMANCE BY PRECISION

| Precision | Google TPU v6e 32GB peak TFLOPS (dense) | NVIDIA H100 SXM5 80GB peak TFLOPS (dense) |
|---|---|---|
| FP64 | – | 34.0 |
| FP64_TC<br>Tensor Core | – | 67.0 |
| FP32 | – | 67.0 |
| TF32 | – | 494.0 |
| BF16 | 918.0 | 990.0 |
| FP16 | – | 990.0 |
| FP8 | – | 1979.0 |
| FP6 | – | – |
| FP4 | – | – |
| INT8 | 1836.0 | 1979.0 |

## SPECIFICATIONS

| | Google TPU v6e 32GB | NVIDIA H100 SXM5 80GB |
|---|---|---|
| Architecture | TPU | Hopper |
| Process Node | – | 4nm |
| Launch Year | 2024 | 2022 |
| Form Factor | – | SXM |
| Memory Type | HBM | – |

| | Google TPU v6e 32GB | NVIDIA H100 SXM5 80GB |
|---|---|---|
| Interface Width | – | – |
| Interconnect | – | – |
| TDP | – | 700 W |
| FP32 Efficiency | – | 0.10 TFLOPS/W |