# Graphcore Bow IPU vs NVIDIA L40S 48GB

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

## OVERVIEW

| | Graphcore Bow IPU | NVIDIA L40S 48GB |
|---|---|---|
| FP32 TFLOPS | **87.3** | **91.6** |
| Memory | — | **48 GB** |
| Memory Bandwidth | — | **864 GB/s** |
| TDP | — | **350 W** |

## PERFORMANCE BY PRECISION

| Precision | Graphcore Bow IPU peak TFLOPS (dense) | NVIDIA L40S 48GB peak TFLOPS (dense) |
|---|---|---|
| FP64 | — | 1.4 |
| FP32 | 87.3 | 91.6 |
| TF32 | — | 183.0 |
| BF16 | — | 362.1 |
| FP16 | 350.0 | 362.1 |
| FP8 | — | 733.0 |
| FP6 | — | — |
| FP4 | — | — |
| INT8 | — | 733.0 |
| INT4 | — | 733.0 |

## SPECIFICATIONS

| | Graphcore Bow IPU | NVIDIA L40S 48GB |
|---|---|---|
| Architecture | Colossus MK2 | Ada Lovelace |
| Process Node | — | 4nm |
| Launch Year | 2022 | 2023 |
| Form Factor | — | PCIe |
| Memory Type | On-die SRAM | — |
| Interface Width | — | — |

| | Graphcore Bow IPU | NVIDIA L40S 48GB |
|---|---|---|
| Interconnect | IPU-Link | – |
| TDP | – | 350 W |
| FP32 Efficiency | – | 0.26 TFLOPS/W |