GRAPHCORE

C2 IPU PCIe Card

The Graphcore® C2 IPU PCIe Card powers IPU servers to let innovators develop the next generation of machine intelligence systems, faster and more efficiently.

Each card runs two of Graphcore's Colossus GC2 IPU processors, delivering an unprecedented level of performance to your machine learning applications, both in training and inference. Up to eight C2 Cards can be networked together using IPU-Link™ high-bandwidth interconnect cables, delivering enhanced IPU compute capability in a standard server chassis.

TECHNICAL SPECIFICATIONS

IPU Processors	2 Colossus GC2 IPU processors
IPU-Cores™	2,432 IPU-Cores, each one a high-performance processor capable of independent code execution
In-Processor Memory™	Each IPU-Core is paired with fast, local, tightly-coupled In-Processor Memory to form an IPU-Tile™. 600MB of in-processor memory per C2 Accelerator, with a total memory bandwidth of 90TB/s.
Compute	> 200 TFLOPS mixed-precision
System interface	2 x 8 lanes PCIe Gen 3/4
Thermal solution	Passive
Form factor	PCIe full-height/length; double-slot
Dimensions	**Length**: 267mm (10.50"); **Height**: 113mm (4.43"); **Width**: 35.7mm (1.41"); **Mass**: 1.5kg (3.3lbs)
IPU-Link™ support	64 lane, 128GB/s IPU-Links
Max power	300W
Auxiliary power supply	8-pin
Software support	Graphcore Poplar® – see over for details
Quality level	Server grade; scale-up

The Graphcore C2 IPU PCIe Card is not available for individual sale. For OEM partner opportunities please visit www.graphcore.ai