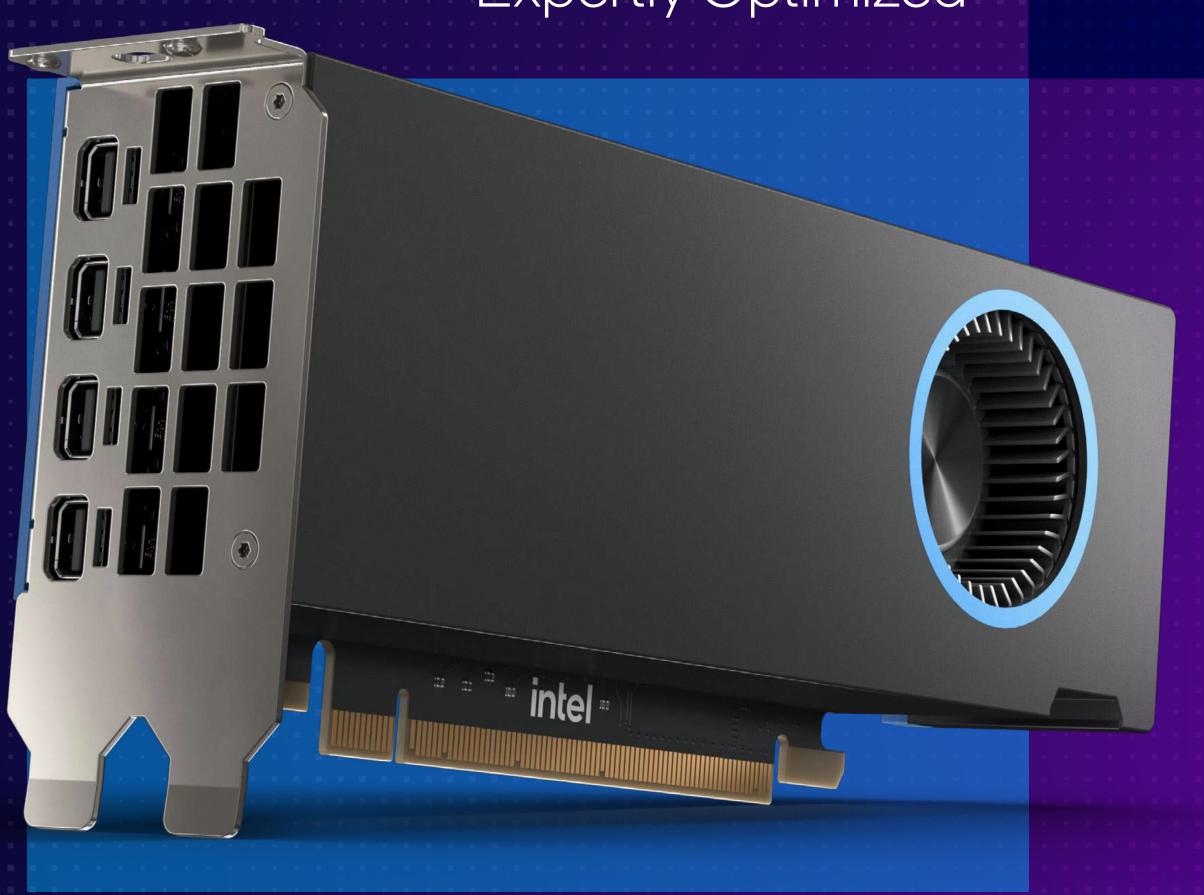
Compact,
Reliable and
Expertly Optimized

## intelarc B50 GPU

For Professional Workstations & Al



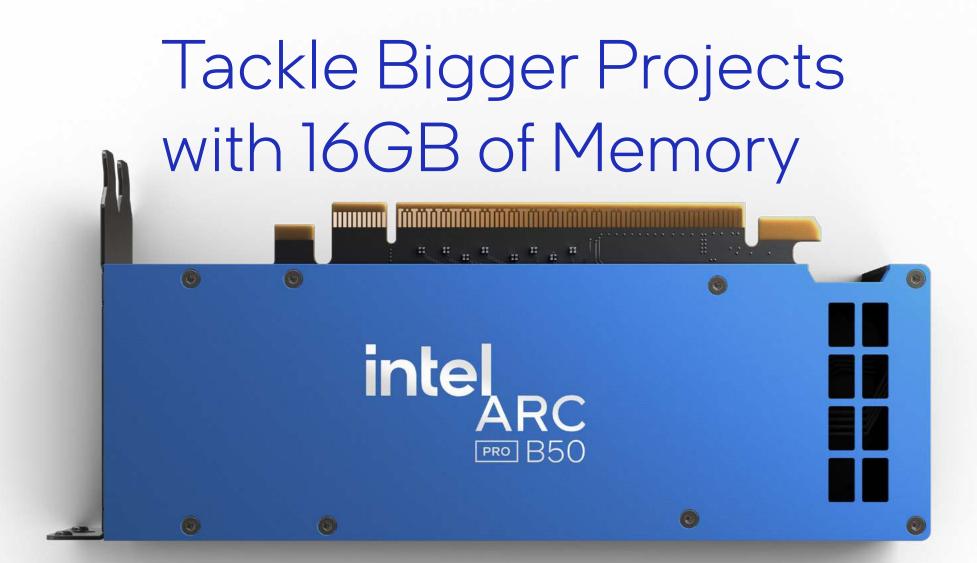
Expertly optimized, reliable, and compact, the Intel® Arc™ Pro B50 GPU delivers improved performance with large amounts of dedicated memory, graphics power, and ISV certifications — ideal for both routine and ambitious projects.

- 16GB High Speed Memory
- Dedicated Al Acceleration Through XMX engines
- Ray Tracing Hardware Acceleration
- Power Efficient at up to 70W
- Independent Software Vendor (ISV) Certifications
- Dual Slot, Small Form Factor
- Premium Components
- 3-Year Warranty
- Up to 4x Displays

16GB

**Id** intel.com/ArcPro





Tailored for modern professional projects like AI, generative design, 3D simulations, ray tracing, and editing, it's built to help boost the quality and speed of your software, with support for AI-driven innovation, enhancing creativity and design.

Equipped with a specialized, robust driver for software like AutoCAD, Solidworks, Maya, and Photoshop, it helps ensure reliable acceleration. The dual-slot, half-length, half-height GPU is designed for professional workstations, featuring dedicated hardware for AI, Ray Tracing, and Media Encoding. It supports up to four HDR displays via mini-DP 2.1 connectors.

It's perfect for today's professional users.

## This GPU is Optimized to Offer Great Performance in Tasks Like:

- 2D & 3D Design and Engineering projects, including Visualization.
- Al Inference tasks.
- 3D Content Creation, as well as 2D Image and Video Projects.

If you require a single slot GPU explore the Intel® Arc™ Pro A60 GPU or A40 GPU, for more memory explore the Intel® Arc™ Pro B60 GPU available in various partner board form factors.



**16GB**GDDR6

High-Speed Memory

70W POWER DRAW

**224**GB/s

Memory Bandwidth

16x RAY TRACING & AI X° Cores



4x outputs

Supported at 5K, 60Hz

## Intel® Arc™ Pro B50 GPU

## **Specifications**

| PERFORMANCE              | GPU Peak TOPS (Int8) <sup>1</sup> | 170 TOPS                                                                             |
|--------------------------|-----------------------------------|--------------------------------------------------------------------------------------|
|                          | Peak FP32 Throughput <sup>2</sup> | Up to 10.65 TFLOPS (Single<br>Precision)                                             |
|                          | X <sup>e</sup> -cores             | 16 Xe-HPG                                                                            |
|                          | XMX Engines                       | 128                                                                                  |
|                          | Ray Tracing (RT) Units            | 16                                                                                   |
|                          | PCle® Support                     | Gen 5.0 x16 (x8 Electrical), with 4.0<br>Backwards Compatibility                     |
| MEMORY                   | Dedicated Memory                  | 16GB of GDDR6                                                                        |
|                          | Bandwidth                         | 224 GB/s                                                                             |
|                          | Interface                         | 128-bit                                                                              |
| DISPLAY                  | Outputs                           | 4x mini-DisplayPort 2.1 Ready                                                        |
|                          | Display and Resolution Support    | Up to 2@ 7680x4320 (8K UHD,<br>60Hz)                                                 |
|                          |                                   | 1@ 5120x1440 (5K Ultrawide,<br>WUHD, 240Hz)                                          |
|                          |                                   | 2@5120x2880 (5K UHD, 120Hz)                                                          |
|                          |                                   | 4@3840x2160 (4K UHD, 60Hz)                                                           |
|                          | API Support                       | DirectX® 12 Ultimate, oneAPI,<br>OpenCL™ 3.0, OpenGL® 4.6,<br>OpenVINO™, Vulkan® 1.3 |
| HARDWARE<br>ACCELERATION | XMX Al Engines                    | Yes                                                                                  |
|                          | Ray Tracing                       | Yes                                                                                  |
|                          | Full Encode and<br>Decode         | AV1, HEVC, H.264, VP9                                                                |
| POWER                    | Consumption                       | 70W Total Board Power                                                                |
|                          | Connector                         | No Connector Required                                                                |
| GENERAL                  | Form Factor                       | Dual Slot, Low Profile.<br>(Half Height, Half Length.)                               |
|                          | Dimensions                        | 168mm x 69mm / 6.6" x 2.7"                                                           |
|                          |                                   | Na are a off NA/in alours® 11 are al 10                                              |
|                          | OS Support                        | Microsoft Windows® 11 and 10<br>Linux® Ubuntu                                        |

<sup>1</sup>GPU Peak TOPS (trillions of operations per second) represents the peak throughput when running XMX workloads with INT8 datatype and dense models. Performance may vary based on configuration.

<sup>2</sup> As defined by maximum clock frequency and peak single precision operations throughput. Performance may vary.