

A New Era of  
Professional  
Graphics

# Intel® Arc™ Pro A50 GPU

With built-in ray tracing hardware, graphics acceleration, and machine learning capabilities, the **Intel® Arc™ Pro A50 GPU** unites fluid viewports, the latest in visual technologies, and rich content creation in a condensed low-profile, dual slot form factor.

- Ray Tracing Hardware Acceleration
- Dedicated AI Acceleration
- AV1 Hardware Encode and Decode Support
- 6GB High Speed Memory
- Software Certifications
- Up to 4x Displays, with Audio and Dolby Vision® Support
- Dual Slot, Small Form Factor
- Premium Components
- 3-Year Warranty

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ARC™

[Intel.com/ArcProA50](https://www.intel.com/ArcProA50)

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GRAPHICS

# A New Era of Professional Graphics



Intel for many professional users equates to years of extensive trust and outstanding reliability, and this latest range of professional graphics continue to build on that. It's likely you have been using Intel Integrated graphics for years, which makes moving to more powerful, dedicated graphics from Intel a wise and easy choice.

This isn't just a new range of GPU's, it's bringing competition and innovation back to your favorite software tools.

## General Performance<sup>2</sup> Guide

■ ■ ■ ■ ■	2D CAD
■ ■ ■ ■ ■	3D Design
■ ■ ■ ■ ■	Office Productivity
■ ■ ■ ■ ■	Video Conferencing
■ ■ ■ ■ ■	Image Editing
■ ■ ■ ■ ■	Video Editing
■ ■ ■ ■ ■	Real-time Rendering

## Intel GPU Architecture

X<sup>e</sup> HPG microarchitecture is engineered from the ground-up to deliver high performance, efficiency, and scalability for creators and professional workloads.

- New X<sup>e</sup>-cores with built-in XM<sup>X</sup> AI capabilities
- Advanced 3D acceleration hardware
- Ray tracing units

If you require more graphics performance explore the Intel<sup>®</sup> Arc<sup>™</sup> Pro A60 GPU or for less performance the Intel<sup>®</sup> Arc<sup>™</sup> Pro A40 GPU.

### Key Features

**6GB**  
GDDR6

High-Speed Memory

Up To  
**5**  
TFLOPS

Peak FP32 Throughput<sup>1</sup>

**192**  
GB/s

Memory Bandwidth

**8x**  
RAY TRACING

Dedicated Units



**4x**  
OUTPUTS

Supported at 5K, 60Hz

# Intel<sup>®</sup> Arc<sup>™</sup> Pro A50 GPU

## Specifications

PERFORMANCE	Peak FP32 Throughput <sup>1</sup>	Up to 5.02 TFLOPS (Single Precision)
	X <sup>e</sup> -cores	8 X <sup>e</sup> -HPG
	XM <sup>X</sup> Engines	128
	Ray Tracing (RT) Units	8
	PCIe <sup>®</sup> Support	Gen 4.0 x16 (x8 Electrical), with 3.0 Backwards Compatibility
MEMORY	Dedicated Memory	6GB of GDDR6
	Bandwidth	192 GB/s
	Interface	96-bit
DISPLAY	Outputs	4x mini-DisplayPort 2.0 Ready, with Audio Support and Latching Mechanism
	Display and Resolution Support	Up to 2@ 7680x4320 (8K UHD, 60Hz) 1@ 5120x1440 (5K Ultrawide, WUHD, 240Hz) 2@ 5120x2880 (5K UHD, 120Hz) 4@ 3840x2160 (4K UHD, 60Hz)
	API Support	DirectX <sup>®</sup> 12 Ultimate, oneAPI, OpenCL <sup>™</sup> 3.0, OpenGL <sup>®</sup> 4.6, OpenVINO <sup>™</sup> , Vulkan <sup>®</sup> 1.3
	HARDWARE ACCELERATION	Full Encode and Decode
Ray Tracing		Yes
AI Engine		Yes
VR Ready		Yes
POWER	Consumption	75w Peak Total Board Power
	Connector	No Connector Required
GENERAL	Form Factor	Dual Slot, Low Profile. (Half Height, Half Length.)
	Dimensions	168mm x 69mm / 6.7" x 2.7"
	OS Support	Microsoft Windows <sup>®</sup> 10 and 11 Linux <sup>®</sup> Ubuntu
	Warranty	3-year Limited

<sup>1</sup> As defined by maximum clock frequency and peak single precision operations throughput. Performance may vary.