ARKN.



Compact, Reliable and Expertly Optimized

For Professional Workstations & AI

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

ARKN Intel® Arc™ Pro B50

16 GB GDDR6

Key Benefits

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

Tackle Bigger Projects with 16 GB of Memory

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 graphics card 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 Graphics Card is Optimized to Offer Great Performance in Tasks Like:

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

intel ARC GRAPHICS

ARKN Intel® Arc™ Pro B50

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SPECIFICATIONS

PERFORMANCE	GPU Peak TOPS (Int8)[1]	170 TOPS
	Peak FP32 Throughput[2]	Up to 10.65 TFLOPS (Single Precision)
	Xe-Cores	16 Xe-HPG
	XMX AI Engines	128
	Ray Tracing (RT) Units	16
	PCIE® Support	Gen 5.0 x16 (x8 Electrical), with 4.0 Backwards Compatibility
MEMORY	Dedicated Memory	16GB GDDR6
	Bandwidth	224 GB/s
	Interface	128-bit
DISPLAY	Outputs	4 x mini-DisplayPort 2.1 Ready
	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® 12 Ultimate, oneAPI, OpenCL™ 3.0, OpenGL® 4.6, OpenVINO™, Vulkan® 1.3
HARDWARE ACCELERATION	XMX AI Engines	Yes
	Ray Tracing	Yes
	Full Encode and Decode	AV1, HEVC, H.264, VP9
POWER	Consumption	70W Total Board Power
	Connector	No Connector Required
GENERAL	Form Factor	Dual Slot, Low Profile
	Dimensions	168mm x 69mm / 6.6" x 2.7"
	OS Support	Microsoft Windows® 11 and Linux® Ubuntu
	Warranty	3-year Limited Warranty
ACCESSORY		1 x Screw Secure Lock Cable 1 x Low Profile Bracket

Subject to change without notice

[1] 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.

[2] As defined by maximum clock frequency and peak single precision operations throughput. Performance may vary.

16GB GDDR6 High-Speed Memory

224 GB/s Memory Bandwidth

70W POWER DRAW

4x OUTPUTS Supported at 5K, 60Hz

16x RAY TRACING & AI Xe Cores



Screw Secure Lock Design to Prevent Cable Drop and Accidental Disconnection

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No computer system can be absolutely secure and Intel-led validation does not confirm it is free from functional or security issues.