A New Generation of Graphics for Commercial Desktops

Intel® Arc™ A310 GPU

Partner board shown from Sparkle Computer

Built on Intel's advanced Xe-HPG microarchitecture, the Intel® Arc™ A310 GPU delivers the latest in visual technologies with advanced productivity, dedicated AI acceleration, modern display and multimedia support, the ability to power up to four 4K displays, all with a unified Intel® graphics driver.

- Unified Intel® Graphics WHQL Driver
- Support for up to 4x 4K@60Hz displays
- 4GB GDDR6 High Speed Memory
- Dedicated AI Hardware and Acceleration (XMX cores)
- Exclusive Intel® Deep Link Technologies*
- Industry First AV1 Hardware Encode
- Support for HDMI 2.1* and DisplayPort* 2.0

https://www.intel.ca/content/www/ca/en/products/sku/227958/intel-arc-a310-graphics

* This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

intel ARC GRAPHICS

A New Generation of Graphics for Commercial Desktops

Partner board shown from Sparkle Computer

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

This isn't just a new range of GPUs, it's about introducing innovation and extending Intel's leadership in the commercial markets with a new portfolio of technologies and capabilities. That's Intel Innovation.

General Performance Guide

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

Intel GPU Architecture

Intel's Xe HPG microarchitecture is engineered from the ground-up to deliver high performance, efficiency, and scalability for creators and professional workloads.

- New Xe-cores with built-in XMX Ai capabilities
- Advanced 3D acceleration hardware
- Dedicated Ray Tracing Units
- Support for newest multimedia standard including full hardware AV1 encode/decode

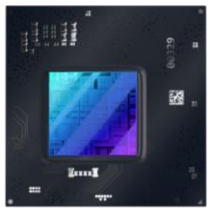
Key Features

4GB GDDR6
High Speed Memory

Up to 4X 4K Displays
Multi-Monitor Support

124 GB/s
Memory Bandwidth

6X Ray-Tracing
Dedicated Cores



DisplayPort 2.0 and **HDMI 2.1**
I/O Support*

Intel® Arc™ A310 GPU

Specifications

PERFORMANCE	Graphics Clock	2000 MHz
	Ray Trace (RT) Cores	6 Xe Cores
	Execution Units (EU)	96
	XMX Engines	96
	PCIe® Support	Modern 4.0 x16 (x8 electrical) With 3.0 Backwards Compatibility
	CPU + GPU benefits	Yes, Intel Deep Link Technologies‡
MEMORY	Dedicated Memory	4GB GDDR6
	Bandwidth	124 GB/s
	Interface	64-bit
DISPLAY	Outputs	Up to 4X displays eDP* 1.4, DP 2.0 up to UHBR 10**, HDMI* 2.1, HDMI* 2.0b
	Maximum Resolution	4096 x 2160@60Hz (HDMI) 7680 x 4320@60Hz (DisplayPort)
	Support	2x 7680 x 4320 (8K UHD, 60 Hz) 1x 5120 x 1440 (5K Ultrawide, WUHD, 240 Hz) 2x 5120 x 2880 (5K UHD, 120 Hz) 4x 3840 x 2160 (4K UHD, 60 Hz)
	API Support	DirectX® 12 Ultimate, oneAPI, OpenCL™ 3.0, OpenGL® 4.6, OpenVino™, Vulkan® 1.3
HARDWARE ACCELERATION	Full Encode and Decode	AV1, HEVC (H.265), AVC (H.264)
	Ray-Tracing	Yes, with dedicated hardware
	AI Engine	Yes, with dedicated hardware
POWER	Consumption	75W Total Board Power
	Connector	No Connector Required
GENERAL	OS Support	Microsoft Windows® 10 and 11 Linux® Ubuntu
	Warranty	Please check with board manufacturer

* Individual board implementations may vary. Please check with the board manufacturer for specific I/O details.
** Designed for DP2.0, certification pending VESA CTS Release.
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Version 1.1.0

A New Generation of Graphics for Commercial Desktops

Intel® Arc™ A380 GPU

Built on Intel's advanced Xe-HPG microarchitecture, the Intel® Arc™ A380 GPU delivers the latest in visual technologies with advanced productivity, dedicated AI acceleration, modern display and multimedia support, the ability to power up to four 4K displays, all with a unified Intel® graphics driver.

- Unified Intel® Graphics WHQL Driver
- Support for up to 4x 4K@60Hz displays
- 6GB GDDR6 High Speed Memory
- Dedicated AI Hardware and Acceleration (XMX cores)
- Exclusive Intel® Deep Link Technologies*
- Industry First AV1 Hardware Encode
- Support for HDMI 2.1* and DisplayPort* 2.0

https://ark.intel.com/content/www/us/en/ark/products/227959/intel-arc-a380-graphics.html

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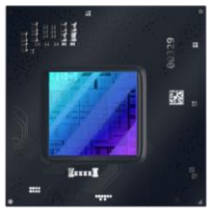
Key Features

6GB
GDDR6
High Speed Memory

Up to 4X
4K Displays
Multi-Monitor Support

186
GB/s
Memory Bandwidth

8X
Ray-Tracing
Dedicated Cores



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I/O Support*

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