

Intel® Arc™ A750 Graphics

[intel ark.intel.com/content/www/us/en/ark/products/227954/intel-arc-a750-graphics.html](https://ark.intel.com/content/www/us/en/ark/products/227954/intel-arc-a750-graphics.html)



Essentials

- Product Collection [Intel® Arc™ A-Series Graphics](#)
- Code Name [Products formerly Alchemist](#)
- Model Number A750
- Microarchitecture Xe HPG
- Lithography Type TSMC N6
- Vertical Segment Desktop
- Marketing Status Launched
- [Launch Date](#) Q3'22

GPU Specifications

- X^e-cores 28
- Render Slices 7
- Ray Tracing Units 28
- Intel® X^e Matrix Extensions (Intel® XM^X) Engines 448
- X^e Vector Engines 448
- [Graphics Clock](#) 2050 MHz
- [TBP](#) 225 W
- [PCI Express Configurations](#) [‡] Up to PCI Express 4.0 x16
- Device ID 0x5691

Memory Specifications

- Memory Size 8 GB
- Memory Type GDDR6
- Graphics Memory Interface 256 bit
- Graphics Memory Bandwidth 512 GB/s
- Graphics Memory Speed 16 Gbps

Supported Technologies

- Ray Tracing Yes

- Variable Rate Shading (VRS). Yes
- DirectX* Support DirectX 12 Ultimate
- Vulkan* Support 1.3
- OpenGL* Support 4.6
- OpenCL* Support 3.0
- Multi-Format Codec Engines 2
- Adaptive Sync Yes

I/O Specifications

- # of Displays Supported[‡] 4
- Graphics Output[‡] eDP* 1.4, DP 2.0 up to UHBR 10**, HDMI* 2.1, HDMI* 2.0b
- Max Resolution (HDMI)[‡] 4096 x 2160@60Hz
- Max Resolution (DP)[‡] 7680 x 4320@60Hz

Features

- H.264 Hardware Encode/Decode Yes
- H.265 (HEVC) Hardware Encode/Decode Yes
- AV1 Encode/Decode Yes
- VP9 Bitstream & Decoding Yes

Intel® Deep Link Technologies

- Intel® Deep Link Hyper Compute[‡] Yes
- Intel® Deep Link Hyper Encode[‡] Yes
- Intel® Deep Link Stream Assist[‡] Yes