Graphical Display: Graphics Card Requirements and Cards Tested

Release 2024 R2

Minimum Graphics Requirements: Visualization*

Ansys Products (other than Discovery, Speos, and AVxcelerate), Windows Platforms: Discrete graphics card with the latest drivers and compatible with the supported operating systems. For full functionality, use of a recent NVIDIA or AMD Professional or Workstation Graphics card with at least 2 GB of discrete video memory and supporting, at a minimum, OpenGL version 4.5, DirectX 11, Shader Model 5.0.

Ansys Products, Linux Platforms: Discrete graphics card with the latest drivers and compatible with the supported operating systems. For full functionality, use of a recent NVIDIA or AMD Professional or Workstation Graphics card with at least 1 GB of discrete video memory and supporting, at a minimum, OpenGL version 4.5. Fluent does not support AMD cards on Linux platforms.

Discovery: NVIDIA Discrete graphics card with the latest drivers. Pascal series or newer recommended. At least 4 GB of discrete video memory (8 GB recommended). OpenGL version 4.6 or above. AMD Radeon Pro cards are also supported, with the exception of the Explore stage, and the Refine stage using the LiveGX solver. Intel Arc Pro GPU cards are also supported in the Modeling stage. When running under Discovery Modeling at least 2 GB of discrete video memory is required (4+ GB recommended).

Speos and Speos for NX: NVIDIA discrete graphics cards. Volta series or newer recommended with drivers as specified in the user documentation. RTX series is preferred. At least 4 GB of discrete video memory is required (16 GB recommended).

AVxcelerate: NVIDIA workstation discrete graphics cards from Quadro RTX, RTX A, or RTX Ada series. 16 GB of discrete video memory is recommended with driver as specified in the user documentation.

GPGPU: Some ANSYS products support problem solving on the graphics processor (GPGPU capability). The additional graphics card requirements for GPGPU are included in the GPU Accelerator Capabilities document at ansys.com> Support> Platform Support.

Rocky: A graphics card supporting, at a mnimum, OpenGL 3.3 and AMD cards only for post-processing on both Windows and Linux platforms.

* Accelerated Processing Unit (APU) integrated graphics may be suitable for some applications; see the table of tested cards below.

Cards Tested

The graphics cards listed below have been tested successfully with these Ansys' applications and products: Ansys Workbench/Mechanical, Autodyn, CFX, Chemikn, DesignXplorer, Discovery, Electronics suite (Mechanical, Designer Workflow, HFSS, Maxwell, Q3D Extractor, and SIwave), EnSight, FENSAP-ICE, Fluent/Fluent-Meshing, Forte, ICEM CFD, Icepak, LS-DYNA, Mechanical APDL, Meshing, optiSLang, Polyflow, Scade, SpaceClaim, SpaceClaim Meshing, Speos, Speos for NX, SpaceClaim, System Coupling, TurboGrid, TwinAI, and TwinBuilder.

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
Intel	Arc Pro	Arc Pro A30M (mobile)	Windows x64	Windows 11	
		Arc Pro A40	Windows x64	Windows 11	
		Arc Pro A60M (mobile)	Windows x64	Windows 11	

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
AMD	Radeon PRO	W6300	Windows x64	Windows 11	
		W6400	Windows x64	Windows 11	
			Linux x64	SLES 15 SP4	
		W6600	Windows x64	Windows 10	
			Linux x64	RHEL 8.9	
		W6800	Windows x64	Windows 11	
			Linux x64	RHEL 8.8	
		W7500	Windows x64	Windows 11	
			Linux x64	RHEL 8.8	
		W7600	Windows x64	Windows 11	
			Linux x64	RHEL 9.3	
		W7700	Windows x64	Windows 11	
			Linux x64	SLES 15.5	
		W7800	Windows x64	Windows 11	
			Linux x64	RHEL 9.3	
		W7900	Windows x64	Windows 11	
			Linux x64	Ubuntu 22.04	
	Ryzen 5 PRO	6650U (mobile)	Windows x64	Windows 10	Requires specific non-unified driver for installation
	Ryzen 7 PRO	4750U (mobile)	Windows x64	Windows 10	Requires specific non-unified driver for installation
		5850U (mobile)	Windows x64	Windows 10	Requires specific non-unified driver for installation
		7840U (mobile)	Windows x64	Windows 11	Requires specific non-unified driver for installation
	Ryzen 9 PRO	7940HS (mobile)	Windows x64	Windows 11	Requires specific non-unified driver for installation

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
NVIDIA	RTX	1000 Ada (mobile)	Windows x64	Windows 11	
		2000 Ada (mobile)	Windows x64	Windows 10	
				Windows 11	
		3000 Ada (mobile)	Windows x64	Windows 10	
		3500 Ada (mobile)	Windows x64	Windows 11	
		4000 Ada	Windows x64	Windows 10	
				Windows 11	
			Linux x64	SLES 15 SP5	
		4000 Ada (mobile)	Windows x64	Windows 10	
		4500 Ada	Linux x64	Rocky 8.9	
				SLES 15 SP4	
		5000 Ada	Windows x64	Windows 10	
				Windows 11	
			Linux x64	RHEL 9.3	
		5000 Ada (mobile)	Windows x64	Windows 11	
		6000 Ada	Windows x64	Windows 10	
				Windows 11	
			Linux x64	Rocky 9.3	
		A1000 (6 GB mobile)	Windows x64	Windows 11	
		A2000 (6 GB)	Windows x64	Windows 10	
		A2000 (12 GB)	Windows x64	Windows 11	
			Linux x64	RHEL 8.6	
		A2000 (8 GB mobile)	Windows x64	Windows 11	
		A3000 (mobile)	Windows x64	Windows 10	

Manufacturer	Product Series	Card Version	Tested Platforms	Tested OS	Notes
NVIDIA	RTX	A4000	Windows x64	Windows 10	
				Windows 11	
			Linux x64	SLES 15 SP3	
		A4500	Windows x64	Windows 10	
			Linux x64	Ubuntu 20.04	
		A4500 (mobile)	Windows x64	Windows 10	
		A500 (mobile)	Windows x64	Windows 11	
		A5000	Windows x64	Windows 11	
			Linux x64	RHEL 8.7	
		A5000 (mobile)	Windows x64	Windows 10	
		A5500	Windows x64	Windows 10	
			Linux x64	RHEL 9.3	
		A5500 (mobile)	Windows x64	Windows 10	
		A6000	Linux x64	RHEL 8.8	
	T	T400 (2 GB)	Linux x64	RHEL 8.5	
		T400 (4 GB)	Windows x64	Windows 11	
		T550 (mobile)	Windows x64	Windows 11	
		T600	Windows x64	Windows 11	
			Linux x64	SLES 15 SP3	
		T600 (mobile)	Windows x64	Windows 10	
		T1000	Windows x64	Windows 10	
		T1000 (8 GB)	Linux x64	Ubuntu 22.04	
		T1200 (mobile)	Windows x64	Windows 10	