Graphical Display: Graphics Card Requirements and Cards Tested
Release 2023 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 1 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. When running under Discovery Modeling at least 2 GB of discrete video memory is required (4+ GB recommended). AMD Radeon PRO cards are also supported, with the exception of the Explore stage.

Speos and Speos for NX: NVIDIA discrete graphics cards. Pascal series or newer recommended with drivers as specified in the user documentation. At least 4 GB of discrete video memory is required (16 GB recommended).
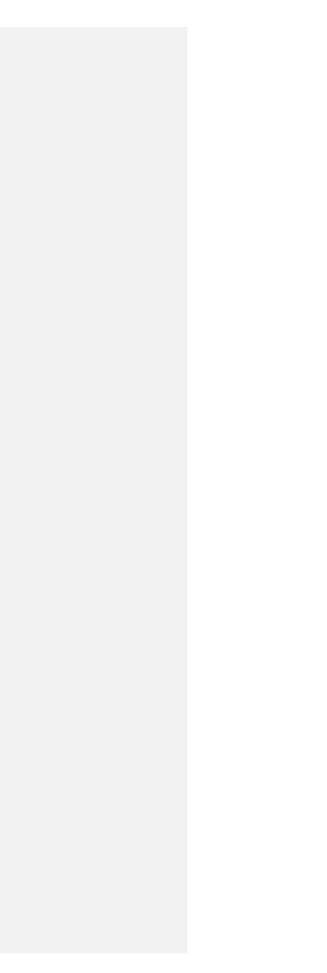
AVxcelerate: NVIDIA workstation discrete graphics cards from Quadro P, Quadro RTX, or RTX A series. 16 GB of discrete video memory is recommended with driver as specified in the user documentation.

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.

* 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 (Designer Workflow, HFSS, Maxwell, Q3D Extractor, and SIwave), Enerigo, EnSight, FENSAP-ICE, Fluent/Fluent-Meshing, Forte, ICEM CFD, Icepak, Mechanical APDL, Meshing, optiSLang, Polyflow, SpaceClaim, SpaceClaim Meshing, Speos, Speos for NX, SpaceClaim, System Coupling, TurboGrid, and TwinBuilder.

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
AMD*	Radeon PRO	W5500	Windows x64	Windows 11	
			Linux x64	RHEL 8.6	
		W5700	Windows x64	Windows 10	
			Linux x64	RHEL 7.9	
		W6400	Windows x64	Windows 11	
			Linux x64	SLES 15 SP4	
		W6600	Windows x64	Windows 11	
			Linux x64	Ubuntu 22.04	
		W6800	Windows x64	Windows 11	
				Ubuntu 20.04	
		Vega 56	Windows x64	Windows 10	Tested with Speos for NX only
	Ryzen 5 PRO	6000 Mobile	Windows x64	Windows 11	Requires specific non-unified driver for installation
	Ryzen 7 PRO	4000 Mobile	Windows x64	Windows 10	Requires specific non-unified driver for installation
		5000 Mobile	Windows x64	Windows 10	Requires specific non-unified driver for installation

* Fluent does not support AMD cards on Linux platforms.

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
NVIDIA	Quadro GV	GV100	Windows x64	Windows 10	
			Linux x64	RHEL 7.8	
	Quadro RTX	3000 (mobile)	Windows x64	Windows 10	
		4000 (mobile)	Windows x64	Windows 10	
		4000	Windows x64	Windows 11	
			Linux x64	CentOS 7.8	
		5000 (mobile)	Windows x64	Windows 10	
		5000	Windows x64	Windows 10	
			Linux x64	RHEL 8.4	
		6000	Windows x64	Windows 11	
			Linux x64	Ubuntu 20.04	
		8000	Windows x64	Windows 10	
			Linux x64	SLES 12 SP5	
	Quadro T	T1000 (mobile)	Windows x64	Windows 10	
		T2000 (mobile)	Windows x64	Windows 10	
	RTX	4000 Ada	Windows x64	Widows 10	
		6000 Ada	Windows x64	Windows 10	
				Windows 11	
			Linux x64	RHEL 8.7	
		A500 (mobile)	Windows x64	Windows 10	
				Windows 11	
		A1000 (mobile)	Windows x64	Windows 10	
		A2000 (mobile)	Windows x64	Windows 11	
		A2000	Windows x64	Windows 11	
			Linux x64	Ubuntu 22.04	
		A2000 (8 GB mobile)	Windows x64	Windows 11	
		A2000 (6 GB)	Linux x64	RHEL 7.9	
		A2000 (12 GB)	Windows x64	Windows 10	
		A3000 (mobile)	Windows x64	Windows 10	
		A3000 (12 GB mobile)	Windows x64	Windows 11	

Manufacturer	Product Series	Card Version	Tested Platforms	Tested OS	Notes
NVIDIA	RTX	A4000 (mobile)	Windows x64	Windows 10	
		A4000	Windows x64	Windows 11	
			Linux x64	RHEL 8.3	
		A4500 (mobile)	Windows x64	Windows 10	
		A4500	Windows x64	Windows 10	
			Linux x64	SLES 15 SP2	
		A5000 (mobile)	Windows x64	Windows 10	
		A5000	Windows x64	Windows 11	
			Linux x64	RHEL 8.6	
		A5500 (mobile)	Windows x64	Windows 11	
		A5500	Windows x64	Windows 11	
			Linux x64	RHEL 8.7	
		A6000	Windows x64	Windows 11	
			Linux x64	SLES 15 SP4	
	T	T400 (2 GB)	Windows x64	Windows 10	
			Linux x64	SLES 15 SP3	
		T400 (4 GB)	Windows x64	Windows 10	
				Windows 11	
		T500 (mobile)	Windows x64	Windows 10	
		T550 (mobile)	Windows x64	Windows 11	
		T600 (mobile)	Windows x64	Windows 10	
		T600	Windows x64	Windows 10	
			Linux x64	RHEL 8.5	
		T1000 (4GB)	Windows x64	Windows 11	
			Linux x64	CentOS 7.9	
		T1000 (8 GB)	Windows x64	Windows 10	
			Linux x64	SLES 15 SP4	
		T1200 (mobile)	Windows x64	Windows 10	