



Graphical Display: Graphics Card Requirements and Cards Tested

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Minimum Graphics Requirements

Ansys Products (other than Discovery, Speos, and VRXPerience), Windows Platforms: Discrete graphics card with the latest drivers and compatible with the supported operating systems. For full functionality, use of a recent NVIDIA Quadro or AMD Radeon Pro 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 Quadro or AMD Radeon Pro card with at least 1 GB of discrete video memory and supporting, at a minimum, OpenGL version 4.5

Discovery: NVIDIA Discrete graphics card (Quadro recommended) with the latest drivers. Kepler-, Maxwell-, Pascal-, Volta, or Turing-based cards are recommended (Maxwell 2000 or better). At least 4 GB of discrete video memory (8 GB recommended). OpenGL version 4.6 or above. AMD Radeon Pro cards are supported with limited product functionality; specifically, the "Explore" stage of Discovery is not accessible.

Speos: NVIDIA discrete graphics cards with the latest certified drivers (listed in the technical documentation), compatible with the supported operating systems and supporting, at a minimum, OpenGL version 2.1, OpenCL version 1.2, Shader Model 1.4 and CUDA version 2.3.

Speos for NX and Speos for Creo Parametric: AMD or NVIDIA discrete graphics cards with the latest certified drivers (listed in the technical documentation), compatible with the supported operating systems and supporting, at a minimum, OpenGL version 2.1, OpenCL version 1.2, Shader Model 1.4 and CUDA version 2.3.

VRXPerience: NVIDIA discrete graphics cards with the latest certified drivers (listed in the technical documentation), compatible with the supported operating systems and supporting, at a minimum, OpenGL version 2.1, OpenCL version 2.1. A Quadro P5200, P6000 or similar specification card is recommended for minimal acceptable performance.

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](https://www.ansys.com/Support/Platform_Support).

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, IC Engine workflow, ICEM CFD, Icepak, Mechanical APDL, Meshing, optiSLang, Polyflow, SpaceClaim, SpaceClaim Meshing, Speos, Speos for NX, Speos for Creo Parametric, SpaceClaim, System Coupling, TurboGrid, and TwinBuilder. Cards tested with VRXPerience are available on request from Technical Support.

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes	
AMD	Radeon Pro	W5500	Windows x64	Windows 10		
			Linux x64	CentOS 8.1		
		W5700	Windows x64	Windows 10		
		WX2100	Windows x64	Windows 10		
		WX3200	Linux x64	RHEL 7.8		
		WX4100	Windows x64	Windows Server 2019		
		WX5100	Linux x64	RHEL 7.8		
		WX7100	Linux x64	CentOS 7.6		
				SLES 15.1		
		WX8200	Windows x64	Windows 10		
		WX9100	Windows x64	Windows 10		
		Vega 56	Windows x64	Windows 10		Tested with Speos for NX only Requires specific non-unified driver for installation
		VII	Windows x64	Windows 10		

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
NVIDIA	Quadro GV	GV100	Windows x64	Windows 10	
			Linux x64	SLES 15.1	
				CentOS 7.7	
	Quadro P	P520 (mobile)	Windows x64	Windows 10	
P600		Windows x64	Windows 10		
		Linux x64	CentOS 8.1		
P620 (mobile)		Windows x64	Windows 10		
P620		Windows x64	Windows 10		
		Linux x64	CentOS 7.6		
P1000		Windows x64	Windows 10		
P1000 (mobile)		Windows x64	Windows 10		
P2000		Windows x64	Windows 10		
		Linux x64	RHEL 7.8		
			SLES 12.5		
P2200		Windows x64	Windows 10		
		Linux x64	RHEL 7.8		
			CentOS 7.8		
P3200 (mobile)		Windows x64	Windows 10		
P4000		Windows x64	Windows 10		
		Linux x64	SLES 12.3		
P4000 (mobile)		Windows x64	Windows 10		
P5000		Windows x64	Windows 10		
		Linux x64	SLES 12.4		
P5200	Windows x64	Windows 10			
P6000	Windows x64	Windows 10			
		Linux x64	RHEL 7.6		

Tested with Speos only

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
NVIDIA	Quadro RTX	3000 (mobile)	Windows x64	Windows 10	
		4000 (mobile)	Windows x64	Windows 10	
		4000	Windows x64	Windows 10	
			Linux x64	RHEL 7.7	
				RHEL 8.1	
			SLES 12.3		
		5000 (mobile)	Windows x64	Windows 10	
		5000	Windows x64	Windows 10	
			Linux x64	SLES 12.5	
				CentOS 7.8	
		6000	Windows x64	Windows 10	
			Linux x64	CentOS 8.1	
		8000	Windows x64	Windows 10	
			Linux x64	RHEL 8.1	
Quadro T	T1000 (mobile)	Windows x64	Windows 10		
	T2000 (mobile)	Windows x64	Windows 10		