



Graphical Display: Graphics Card Requirements and Cards Tested

Release 2021 R2

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 (Quadro recommended) with the latest drivers (listed in the technical documentation), Pascal-, Volta-, Turing- or Ampere-based cards (recommended). At least 4 GB of discrete video memory is required (16 GB recommended).

Speos for NX and Speos for Creo Parametric: NVIDIA or AMD discrete graphics cards (Quadro or Pro recommended) with the latest drivers (listed in the technical documentation), At least 4 GB of discrete video memory (8 GB recommended). In addition 2021 R2 Speos for NX will support the AMD Radeon Vega 56.

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://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 7.8		
		W5700	Windows x64	Windows 10		
		W6800	Windows x64	Windows 10		Requires specific non-unified driver for installation
		WX2100	Windows x64	Windows 10		
		WX3200	Linux x64	RHEL 7.8		
		WX4100	Windows x64	Windows Server 2019		
		WX5100	Linux x64	SLES 15.2		
		WX7100	Windows x64	Windows 10		
			Linux x64	RHEL 7.9		
		WX9100	Windows x64	Windows 10		
		Vega 56	Windows x64	Windows 10		Tested with Speos for NX only
		VII	Windows x64	Windows 10		
			Linux x64	SLES 15.1		
		Ryzen	5000 Mobile	Windows x64		Windows 10
Ryzen Pro	4000 Mobile	Windows x64	Windows 10	Requires specific non-unified driver for installation		

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
NVIDIA	Quadro GV	GV100	Windows x64	Windows 10	
			Linux x64	RHEL 8.2	
	Quadro P	P520 (mobile)	Windows x64	Windows 10	
		P600	Windows x64	Windows 10	
			Linux x64	RHEL 8.2	
		P620 (mobile)	Windows x64	Windows 10	
		P620	Windows x64	Windows 10	
			Linux x64	CentOS 7.6	
		P1000 (mobile)	Windows x64	Windows 10	
		P1000	Windows x64	Windows 10	
			Linux x64	RHEL 7.8	
		P2000	Windows x64	Windows 10	
			Linux x64	SLES 15.1	
		P2200	Windows x64	Windows 10	
			Linux x64	SLES 12.5	
		P3200 (mobile)	Windows x64	Windows 10	
		P4000	Windows x64	Windows 10	
			Linux x64	SLES 15.2	
		P5000	Windows x64	Windows 10	
			Linux x64	SLES 15.2	
				CentOS 8.1	
		P5200	Windows x64	Windows 10	Tested with Speos only
	P6000	Windows x64	Windows 10		
		Linux x64	RHEL 7.9		

Manufacturer	Product Series	Card Version	Tested Platform	Tested OS	Notes
	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 8.3		
		SLES 15.1			
		5000 (mobile)	Windows x64	Windows 10	
		5000	Windows x64	Windows 10	
			Linux x64	RHEL 8.2	
			CentOS 7.8		
		6000	Windows x64	Windows 10	
			Linux x64	SLES 12.4	
			CentOS 7.8		
		Centos 8.3			
		8000	Windows x64	Windows 10	
Linux x64	RHEL 8.2				
Quadro T	T500 (mobile)	Windows x64	Windows 10		
	T1000 (mobile)	Windows x64	Windows 10		
	T2000 (mobile)	Windows x64	Windows 10		
RTX	A5000	Windows x64	Windows 10		
		Linux x64	RHEL 8.3		
	A6000	Windows x64	Windows 10		
		Linux x64	SLES 12.4		
		SLES 12.5			
CentOS 8.3					
T	T400	Windows x64	Windows 10		
		Linux x64	SLES 15.2		
	T600	Windows x64	Windows 10		
		Linux x64	RHEL 7.9		
	T1000	Windows x64	Windows 10		
		Linux x64	CentOS 8.3		