



GPU Accelerator Capabilities *

Release 2026 R1

* Used in support of the CPU to process certain calculations and key solver computations for faster performance during a solution.

- Acceleration can be used for both shared-memory parallel processing (shared-memory Ansys) and distributed-memory parallel processing (Distributed Ansys).
- Acceleration is available for both Windows and Linux.

Support by Application

AVxcelerate supports NVIDIA's CUDA-enabled series workstation and server cards.

Ansys EMIT and **EMIT Classic** support NVIDIA CUDA-enabled workstation, data center and server cards.

HFSS Frequency-domain and Time-domain solvers support NVIDIA CUDA-enabled workstation, data center, and server cards.

HFSS SBR+ solver supports NVIDIA CUDA-enabled workstation, data center, and server cards.

ICEPAK supports NVIDIA's CUDA-enabled workstation, data center, and server cards.

Maxwell solvers support NVIDIA CUDA-enabled workstation, data center, and server cards.

Mechanical APDL supports AMD Instinct MI Series accelerators, AMD Radeon Pro workstation GPUs, and NVIDIA CUDA-enabled workstation, data center, and server cards.

When using the sparse solver or eigen solvers based on the sparse solver with NVIDIA cards additional considerations apply (please consult the ANSYS installation guide for details).

Polyflow supports NVIDIA's CUDA-enabled workstation, data center, and server cards.

Cards Tested **

The following cards have been tested by ANSYS, Inc.

Application	Manufacturer	Card Series	Card / GPU Tested	Tested Platform	Tested Operating System Version	Notes
Avxcelereate	NVIDIA	Quadro RTX	6000	Windows x64	Windows 11	
				Linux x64	Ubuntu 24.04	
		RTX	8000	Linux x64	Ubuntu 22.04	
			A5000	Linux x64	Ubuntu 24.04	
			A5500 Laptop	Windows x64	Windows 11	
			A6000	Windows x64	Windows 11	
				Linux x64	Ubuntu 24.04	
			5000 Ada Generation Laptop	Windows x64	Windows 11	
			5880 Ada	Linux x64	Ubuntu 24.04	
			6000 Ada	Linux x64	Ubuntu 22.04	

Application	Manufacturer	Card Series	Card / GPU Tested	Tested Platform	Tested Operating System Version	Notes
Mechanical APDL	AMD	Instinct	MI100	Linux x64	Red Hat 8.10	
			MI210	Linux x64	SLES 15.6	
					Ubuntu 22.04	
			MI300x	Linux x64	Rocky Linux 8.10	
		Radeon	8060S	Windows x64	Windows 11	
			AI Pro R9700	Linux x64	Rocky Linux 9.6	
	Pro W7900		Windows x64	Windows 11		
			Linux x64	Red Hat 9.6		
	NVIDIA	RTX	A6000 Ada	Linux x64	Red Hat 8.10	
			Pro 6000	Windows x64	Windows Server 2022	
		Tesla	A100	Windows x64	Windows Server 2025	
				Linux x64	Ubuntu 22.04	
H100			Windows x64	Windows Server 2022		
			Linux x64	Red Hat 8.10		
Polyflow	NVIDIA	Ada Lovelace	L40	Linux x64	Red Hat 8.10	
		Grid	T4-8Q	Windows x64	Windows Server 2022	
			RTX 8000P-8Q	Linux x64	SLES 15.7	
					Red Hat 8.10	
					Red Hat 9.6	
					Rocky Linux 8.10	
				Ubuntu 22.04		
			Ubuntu 24.04			
	Tesla	A100	Windows x64	Windows Server 2022		
			Linux x64	Red Hat 8.10		
** The performance benefit of using a GPU Accelerator will depend on the card selected and the overall system configuration.						
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