CUDA GPU Compute Capability

Compute capability (CC) defines the hardware features and supported instructions for each NVIDIA GPU architecture. Find the compute capability for your GPU in the table below. For legacy GPUs, refer to Legacy CUDA GPU Compute Capability.

Compute Capability	Data Center	GeForce/RTX	Jetson
12.0	NVIDIA RTX PRO 6000 Blackwell Server Edition	NVIDIA RTX PRO 6000 Blackwell Workstation Edition NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition NVIDIA RTX PRO 5000 Blackwell NVIDIA RTX PRO 4500 Blackwell NVIDIA RTX PRO 4000 Blackwell GeForce RTX 5090 GeForce RTX 5080 GeForce RTX 5070 Ti GeForce RTX 5070 GeForce RTX 5060 Ti GeForce RTX 5060	
10.0	NVIDIA GB200 NVIDIA B200		
9.0	NVIDIA GH200 NVIDIA H200 NVIDIA H100		
8.9	NVIDIA L4 NVIDIA L40	NVIDIA RTX 6000 Ada NVIDIA RTX 5000 Ada NVIDIA RTX 4500 Ada NVIDIA RTX 4000 Ada	

Compute Capability	Data Center	GeForce/RTX	Jetson
		NVIDIA RTX 4000 SFF Ada NVIDIA RTX 2000 Ada GeForce RTX 4090 GeForce RTX 4080 GeForce RTX 4070 Ti GeForce RTX 4070 GeForce RTX 4060 Ti GeForce RTX 4060 GeForce RTX 4050	
8.7			Jetson AGX Orin Jetson Orin NX Jetson Orin Nano
8.6	NVIDIA A40 NVIDIA A10 NVIDIA A16 NVIDIA A2	NVIDIA RTX A6000 NVIDIA RTX A5000 NVIDIA RTX A4000 NVIDIA RTX A3000 NVIDIA RTX A2000 GeForce RTX 3090 Ti GeForce RTX 3090 GeForce RTX 3080 Ti GeForce RTX 3080 GeForce RTX 3070 Ti GeForce RTX 3070 GeForce RTX 3060 Ti GeForce RTX 3060 GeForce RTX 3050 Ti GeForce RTX 3050	
8.0	NVIDIA A100 NVIDIA A30		
7.5	NVIDIA T4	QUADRO RTX 8000 QUADRO RTX 6000 QUADRO RTX 5000 QUADRO RTX 4000 QUADRO RTX 3000 QUADRO T2000 NVIDIA T1200 NVIDIA T1000 NVIDIA T600 NVIDIA T500 NVIDIA T400	

Compute Capability	Data Center	GeForce/RTX	Jetson
		GeForce GTX 1650 Ti	
		NVIDIA TITAN RTX	
		GeForce RTX 2080 Ti	
		GeForce RTX 2080	
		GeForce RTX 2070	
		GeForce RTX 2060	

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