

NVIDIA cuDNN

Support Matrix | NVIDIA Docs

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Chapter 1. GPU, CUDA Toolkit, and CUDA Driver Requirements

The following sections highlight the compatibility of NVIDIA® cuDNN versions with the various supported NVIDIA CUDA® Toolkit, CUDA driver, and NVIDIA hardware versions.

GPU, CUDA Toolkit, and CUDA Driver Requirements Table 1.

	CUDA	Supports NVIDIA Driver Version		CUDA	Supported			
cuDNN Package ¹	Toolkit Version	static linking? ²	Linux	Windows	Compute Capability	NVIDIA Hardware		
cuDNN	12.1	Yes	>=525.60.13	>=527.41	9.0 ³	NVIDIA _		
8.9.0 for CUDA 12.x	12.0	No				8.9 ⁴	Hopper ^{™5}	
cuDNN 8.9.0 for	11.8	Yes	>=	>=452.39	8.6	NVIDIA Ada Lovelace		
CUDA 11.x	11.7	No	450.80.02	450.80.02	450.80.02		8.0	architecture ⁶
	11.6				7.5	NVIDIA		
	11.5				7.0	Ampere architecture		
	11.4					6.1	NVIDIA Turing [™]	
	11.3					6.0		
	11.2				5.0	NVIDIA Volta [™]		
	11.1					NVIDIA Pascal [™]		

Requires CUDA Toolkit >= 11.8. Requires CUDA Toolkit >= 11.8. Requires CUDA Toolkit >= 11.8.

Requires CUDA Toolkit >= 11.8.

	CUDA Supports		NVIDIA Driver Version		CUDA	Supported
cuDNN Package ¹		static linking? ²	Linux	Windows	Compute Capability	NVIDIA Hardware
						NVIDIA Maxwell [®]



Note: For best performance, the recommended configuration is cuDNN 8.9.0 on H100 with CUDA 12.0, and cuDNN 8.9.0 on all other GPUs with CUDA 11.8, because this is the configuration that was used for tuning heuristics.

NVIDIA cuDNN

Chapter 2. CPU Architecture and OS Requirements

The following tables highlight the compatibility of cuDNN versions with the various supported OS versions.

For the requirements of previously released versions of cuDNN documentation, refer to the NVIDIA cuDNN Archives.

2.1. Linux

Refer to the following table to view the list of supported Linux versions for cuDNN.

Table 2. Linux Versions for cuDNN

			Distro Information		
Architecture	OS Name	OS Version	Kernel	GCC	Glibc
x86_64	RHEL	9.x	5.14.0	8.5.0	2.34
		8.x	4.18.0	8.5.0	2.28
		7.x	3.10.0	4.8.5	2.19
	Rocky	8.6	4.18	8.5.0	2.28
	Ubuntu	22.04	5.15.0	11.2.0	2.35
		20.04	5.15.0	9.4.0	2.31
		18.04	4.15.0	8.2.0	2.27
	Debian	11.4	5.10	10.2.1	2.31
ppc64le	RHEL	8.x	4.18	8.5.0	2.28
AArch64 incorporates ARM® based CPU cores for Server Base System Architecture (SBSA).	RHEL	8.x	4.18	8.5.0	2.28
	Ubuntu	22.04	5.15.0	11.2.0	2.35
		20.04	5.13.0	9.3.0	2.31

2.2. Windows

Windows 10 and Windows Server 2019 and 2016 are supported. Refer to the following table to view the list of supported Visual Studio versions for cuDNN.

Visual Studio Versions Based on Your Version of CUDA Table 3.

	CUDA 12.x - 11.8	CUDA 11.7 - 11.0	
Visual Studio	2019	2017	

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