



# CUDNN SUPPORT MATRIX

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**cuDNN Support Matrix**



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# Chapter 1.

## CUDNN FOR CUDA AND NVIDIA HARDWARE

The [Table 1](#) describes the compatibility of cuDNN versions with the various supported CUDA, CUDA driver and NVIDIA hardware versions.

**Table 1** cuDNN For CUDA and NVIDIA Hardware

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
<i>cuDNN 7.6.2</i>			
7.6.2	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.1.105	r418.39
7.6.2	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.6.2	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.6.2	CUDA 9.1.85 (Not Supported)		

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
7.6.2	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.6.2	CUDA 8.0.61 (Not Supported)		
<i>cuDNN 7.6.1</i>			
7.6.1	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.1.105	r418.39
7.6.1	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.6.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.6.1	CUDA 9.1.85 (Not Supported)		
7.6.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.6.1	CUDA 8.0.61 (Not Supported)		
<i>cuDNN 7.6.0</i>			
7.6.0	-Turing (7.5), -Volta (7.x),	CUDA 10.1.105	r418.39

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
	-Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)		
7.6.0	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.6.0	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.6.0	CUDA 9.1.85 (Not Supported)		
7.6.0	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.6.0	CUDA 8.0.61 (Not Supported)		
<b>cuDNN 7.5.1</b>			
7.5.1	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.1.105	r418.39
7.5.1	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
7.5.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.5.1	CUDA 9.1.85 (Not Supported)		
7.5.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.5.1	CUDA 8.0.61 (Not Supported)		
<b>cuDNN 7.5.0</b>			
7.5.0	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.5.0	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.5.0	CUDA 9.1.85 (Not Supported)		
7.5.0	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.5.0	CUDA 8.0.61 (Not Supported)		
<b>cuDNN 7.4.2</b>			
7.4.2	-Turing (7.5), -Volta (7.x),	CUDA 10.0.x	r410.48

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
	-Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)		
7.4.2	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.4.2	CUDA 9.1.85 (Not Supported)		
7.4.2	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.4.2	CUDA 8.0.61 (Not Supported)		
<b>cuDNN 7.4.1</b>			
7.4.1	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.4.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.4.1	CUDA 9.1.85 (Not Supported)		
7.4.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.4.1	CUDA 8.0.61 (Not Supported)		

cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
<i>cuDNN 7.3.1</i>			
7.3.1	-Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 10.0.x	r410.48
7.3.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.3.1	CUDA 9.1.85 (Not Supported)		
7.3.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.3.1	CUDA 8.0.61 (Not Supported)		
<i>cuDNN 7.2.1</i>			
7.2.1	CUDA 10.0.x (Not Supported)		
7.2.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.2.1	CUDA 9.1.85 (Not Supported)		
7.2.1	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.2.1	-Xavier (7.2), -Pascal (6.x), -Maxwell (5.x),	CUDA 8.0.61	r375.88



cuDNN Version	Supported NVIDIA HW (Compute Capability)	CUDA Version(s)	CUDA Driver Version(s)
	-Kepler (3.x)		
<i>cuDNN 7.1.4</i>			
7.1.4	CUDA 10.0.x (Not Supported)		
7.1.4	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.2.88	r396.26
7.1.4	CUDA 9.1.85 (Not Supported)		
7.1.4	-Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 9.0.176	r384.111
7.1.4	-Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x)	CUDA 8.0.61	r375.88

# Chapter 2.

## CUDNN FOR OS VERSIONS

The [Table 2](#) describes the compatibility of cuDNN versions with the various supported OS versions.

**Table 2 cuDNN Compatibility with OS Versions**

cuDNN for Linux	cuDNN for MacOS	cuDNN for Windows
<b>Ubuntu 18.04 or Ubuntu 16.04 or Ubuntu 14.04:</b> For installing cuDNN with Debian files on x86_64. <b>Ubuntu 18_04:</b> On POWER8 and POWER9.	Mac OS X 10.13 or later.	Windows 10.
<b>RHEL7.5 or later:</b> For installing cuDNN on POWER8 and POWER9.		Windows 7.
<b>Any Linux Distribution:</b> For installing cuDNN with tgz files on x86_64.		Windows Server 2016 or Windows Server 2012.

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