



CUDNN SUPPORT MATRIX

DA-06762-001_v | April 2019

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) |
|---------------|---|-----------------|------------------------|
| 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 |
| 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), | CUDA 9.0.176 | r384.111 |

| cuDNN Version | Supported NVIDIA HW (Compute Capability) | CUDA Version(s) | CUDA Driver Version(s) |
|---------------|---|-----------------|------------------------|
| | -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x) | | |
| 7.5.1 | CUDA 8.0.61 (Not Supported) | | |
| 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) | | |
| 7.4.2 | -Turing (7.5), -Volta (7.x), -Xavier (7.2), -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x) | CUDA 10.0.x | r410.48 |
| 7.4.2 | -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), | CUDA 9.0.176 | r384.111 |

| 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 | CUDA 8.0.61 (Not Supported) | | |
| 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) | | |
| 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) | | |

| cuDNN Version | Supported NVIDIA HW (Compute Capability) | CUDA Version(s) | CUDA Driver Version(s) |
|---------------|---|-----------------|------------------------|
| 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) | | |
| 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), -Kepler (3.x) | CUDA 8.0.61 | r375.88 |
| 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), | CUDA 8.0.61 | r375.88 |

| cuDNN Version | Supported NVIDIA HW (Compute Capability) | CUDA Version(s) | CUDA Driver Version(s) |
|---------------|--|-----------------|------------------------|
| | -Pascal (6.x), -Maxwell (5.x), -Kepler (3.x) | | |

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 |
|--|-------------------------|--|
| Ubuntu 16.04 or Ubuntu 14.04 or Ubuntu 18.04: For installing cuDNN with Debian files on x86_64 or POWER8/9 | Mac OS X 10.11 or later | Windows 7 |
| RHEL7.5: For installing cuDNN on POWER8 and POWER9 | | Windows 10 |
| Any Linux Distribution: For installing cuDNN with tgz files on x86_64 | | Windows Server 2012 or Windows Server 2016 |

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