



# VGPU

DA-06762-001\_v10.1 | July 2019

## Application Note



# TABLE OF CONTENTS

Chapter 1. Overview..... 1

Chapter 2. vGPU.....2

# Chapter 1.

## OVERVIEW

This page describes the support for CUDA on NVIDIA® Quadro® Virtual Data Center Workstation (Quadro vDWS), NVIDIA GRID™ Virtual PC, and GRID Virtual Applications.

For more information on NVIDIA Virtual GPU Software, visit <https://docs.nvidia.com/grid/index.html>.

# Chapter 2.

## vGPU

The following vGPUs support CUDA:

- ▶ The 8Q vGPU type on Tesla M6, Tesla M10, and Tesla M60 GPUs.
- ▶ All Q-series vGPU types on the following GPUs:
  - ▶ Tesla P4
  - ▶ Tesla P6
  - ▶ Tesla P40
  - ▶ Tesla P100
  - ▶ Tesla P100 12 GB
- ▶ The following CUDA features are not supported on vGPU:
  - ▶ Unified Memory
  - ▶ Dynamic Page Retirement
  - ▶ ECC
  - ▶ Peer-to-peer
  - ▶ GPUDirect RDMA
  - ▶ CUDA Developer Tools (e.g. debugger, profiler)

## **Notice**

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

Information furnished is believed to be accurate and reliable. However, NVIDIA Corporation assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. No license is granted by implication of otherwise under any patent rights of NVIDIA Corporation. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all other information previously supplied. NVIDIA Corporation products are not authorized as critical components in life support devices or systems without express written approval of NVIDIA Corporation.

## **Trademarks**

NVIDIA and the NVIDIA logo are trademarks or registered trademarks of NVIDIA Corporation in the U.S. and other countries. Other company and product names may be trademarks of the respective companies with which they are associated.

## **Copyright**

© 2019 NVIDIA Corporation. All rights reserved.