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NVIDIA 4X60K59925

NVIDIA Quadro K420 Graphics Card User Manual

Model: 4X60K59925

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your NVIDIA Quadro K420 Graphics Card. The Quadro K420 is a low-profile graphics card designed for professional workstations, offering reliable performance for various applications.

Key features include:

- **Graphics Engine:** NVIDIA Quadro K420
- **Core Clock:** 875 MHz
- **CUDA Cores:** 194
- **Form Factor:** Low-profile
- **Graphics Memory:** 2 GB DDR3
- **Maximum Resolution:** 2560x1600

2. PACKAGE CONTENTS

Verify that all items are present in the package:

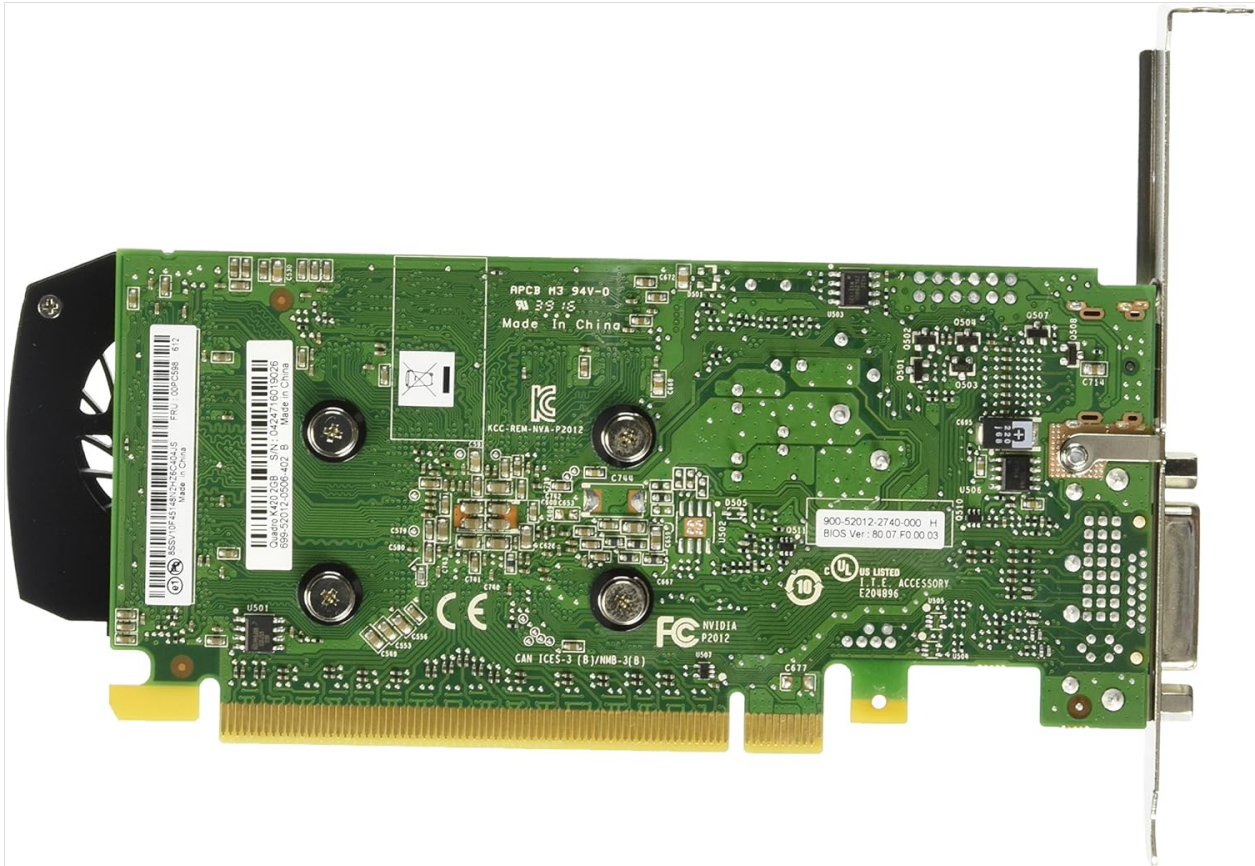
- NVIDIA Quadro K420 Graphics Card (Low-profile)
- DVI-VGA cable
- Drivers & Utilities CD/DVD (or download instructions)
- Low-profile bracket

3. SETUP AND INSTALLATION

Follow these steps to install the NVIDIA Quadro K420 Graphics Card into your desktop computer:

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate PCI Express Slot:** Identify an available PCI Express x16 slot on your motherboard.

3. **Install Bracket (if necessary):** If your computer case requires a low-profile card, ensure the low-profile bracket is attached to the graphics card. The card comes with a low-profile bracket for compatibility with smaller form factor systems.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCI Express slot and press down firmly until it is securely seated. Secure the card with the retaining clip or screw from your computer case.
5. **Close Case and Reconnect:** Close your computer case and reconnect all cables.
6. **Power On and Install Drivers:** Power on your computer. Once the operating system loads, install the NVIDIA drivers using the provided Drivers & Utilities disc or by downloading the latest drivers from the official NVIDIA website.



This image displays the rear side of the NVIDIA Quadro K420 graphics card, highlighting its green circuit board, integrated chips, and the metal mounting bracket. The card is designed for a low-profile form factor.

4. OPERATING THE GRAPHICS CARD

After successful installation and driver setup, you can connect your display(s) to the graphics card.

- **Connecting Displays:** The NVIDIA Quadro K420 features one DVI port and one DisplayPort. Connect your monitor(s) using appropriate cables.
- **Multi-Monitor Setup:** The card supports up to two independent digital displays simultaneously. For optimal performance and independent display output, use separate cables for each monitor connected to the DVI and DisplayPort outputs. Avoid using DVI splitters for independent displays, as this may result in mirrored displays or display instability.
- **Resolution:** The maximum supported display resolution is 2560x1600.



This image shows the output connectors of the NVIDIA Quadro K420 graphics card. It includes one DVI (Digital Visual Interface) port and one DisplayPort, allowing for connection to various display types.

5. MAINTENANCE

To ensure the longevity and optimal performance of your graphics card:

- **Keep Clean:** Periodically clean dust from the card's fan and heatsink using compressed air. Ensure the computer case has adequate airflow.
- **Driver Updates:** Regularly check the NVIDIA website for the latest driver updates to ensure compatibility and performance improvements.
- **Environmental Conditions:** Operate the card within recommended temperature and humidity ranges.

6. TROUBLESHOOTING

If you encounter issues with your NVIDIA Quadro K420 Graphics Card, consider the following:

- **No Display Output:**
 - Ensure the graphics card is fully seated in the PCI Express slot.
 - Verify that the display cable is securely connected to both the graphics card and the monitor.
 - Check if your monitor is set to the correct input source.
- **Driver Issues:**
 - Reinstall the latest drivers from the NVIDIA website.
 - Ensure no conflicting display drivers are installed.
- **Display Instability (e.g., flickering, black screens):**
 - If using multiple monitors, ensure each monitor is connected directly to a separate output port on the graphics card (DVI, DisplayPort) with its own cable. Using DVI splitters for independent displays can cause instability.
 - Check for overheating; ensure proper ventilation and clean the fan.
- **Performance Problems:**
 - Ensure your system meets the minimum requirements for the applications you are running.
 - Update your graphics drivers.

For further assistance, refer to the NVIDIA support website.

7. SPECIFICATIONS

Graphics Coprocessor	NVIDIA Quadro K420
Brand	NVIDIA
Graphics RAM Size	2 GB
Graphics RAM Type	DDR3 SDRAM
Video Output Interface	DisplayPort, DVI
Graphics Card Interface	PCI Express
Memory Clock Speed	891 MHz
Core Clock	875 MHz
CUDA Cores	194
Display Resolution Maximum	2560x1600
Form Factor	Low-profile
Number of Fans	1
Compatible Devices	Desktop
Item Weight	4.16 ounces

8. WARRANTY INFORMATION

The NVIDIA Quadro K420 Graphics Card comes with a **3-year limited warranty** for replacement. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official NVIDIA warranty policy documentation.

9. SUPPORT

For technical support, driver downloads, and additional product information, please visit the official NVIDIA support website:

www.nvidia.com/support

You can also find community forums and knowledge bases for common questions and solutions.