ASUS GT1030-2G-CSM

ASUS GeForce GT 1030 GT1030-2G-CSM Graphics Card User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ASUS GeForce GT 1030 GT1030-2G-CSM graphics card. This graphics card features an exclusive heatsink design for quiet HTPC and multimedia operation. It utilizes Auto-Extreme manufacturing technology with aerospace-grade Super Alloy Power II components, ensuring premium quality and reliability. GPU Tweak II software allows for advanced monitoring and control, optimizing performance, cooling, and noise levels.

2. PRODUCT OVERVIEW

2.1 Key Features

- 1506MHz Boost Clock (OC Mode) with 2GB GDDR5 on NVIDIA's Pascal architecture.
- ASUS exclusive heatsink design with passive cooling ensures quiet HTPC and multimedia operation.
- Auto-Extreme manufacturing technology delivers premium quality and reliability with aerospace-grade Super Alloy Power II components.
- GPU Tweak II facilitates performance monitoring and streaming, including Game Booster and a 1-year premium license of XSplit Gamecaster.
- Fully supports DX12 on Microsoft Windows 10.
- Low profile form factor.

2.2 Package Contents

Verify that all items are present in your package:

- ASUS GeForce GT 1030 GT1030-2G-CSM Graphics Card
- VGA DVI+HDMI Low Profile Bracket

3. INSTALLATION GUIDE

3.1 System Requirements

- PCI Express-enabled motherboard with one x16 graphics slot.
- Minimum 300W power supply (check your system's power supply for compatibility).

- Microsoft Windows 10, Windows 8.1, Windows 8, Windows 7, or Linux operating system.
- At least 2GB of system memory.

3.2 Hardware Installation

Follow these steps to install your graphics card:

1. **Power Off and Disconnect:** Turn off your computer and disconnect the power cable from the wall outlet.
2. **Open Computer Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate PCIe Slot:** Find an available PCI Express x16 slot on your motherboard.
4. **Remove Slot Cover:** Remove the metal slot cover from the back of your computer case corresponding to the chosen PCIe slot.
5. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it firmly until it is securely seated. Ensure the retention clip locks into place.
6. **Secure Card:** Secure the graphics card to the computer case with a screw or the case's locking mechanism. If using the low profile bracket, ensure it is properly installed before securing.
7. **Close Case:** Replace the computer case side panel.
8. **Connect Display Cables:** Connect your monitor(s) to the HDMI or DVI ports on the graphics card.

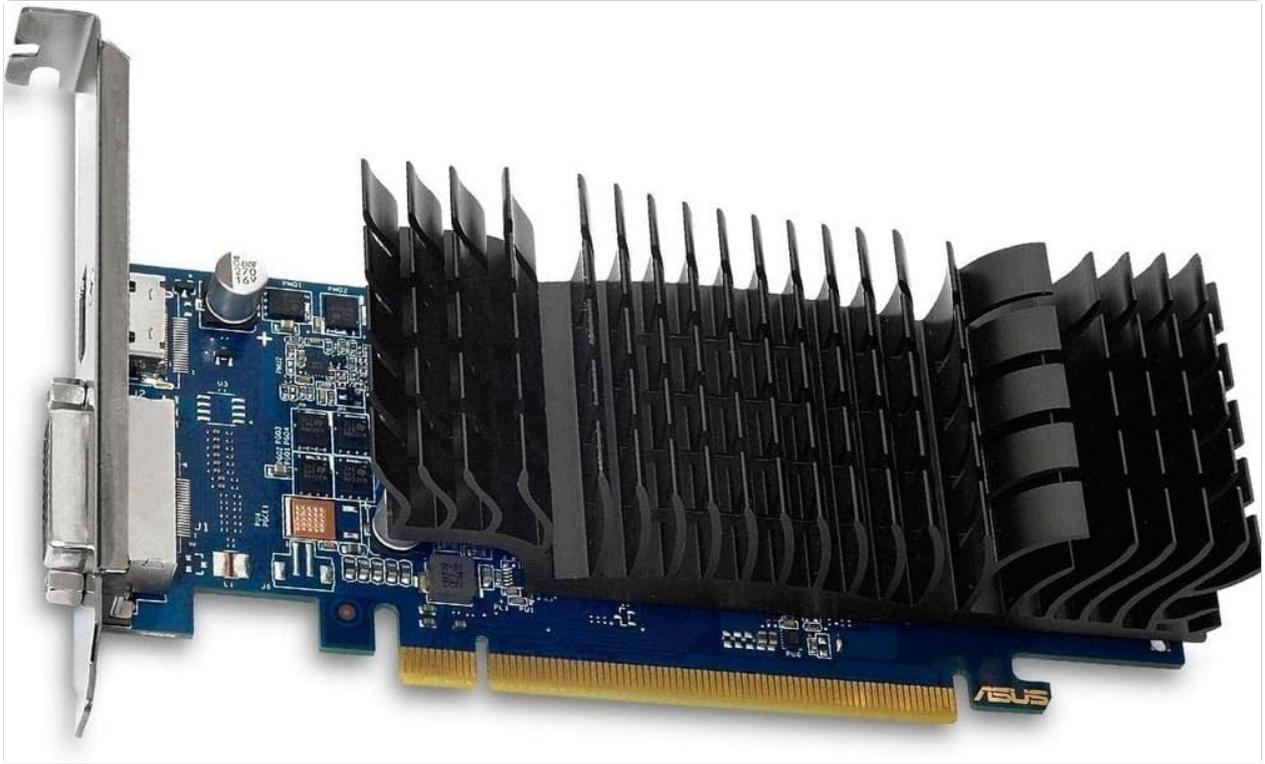Figure 1: Overall view of the ASUS GeForce GT 1030 graphics card.

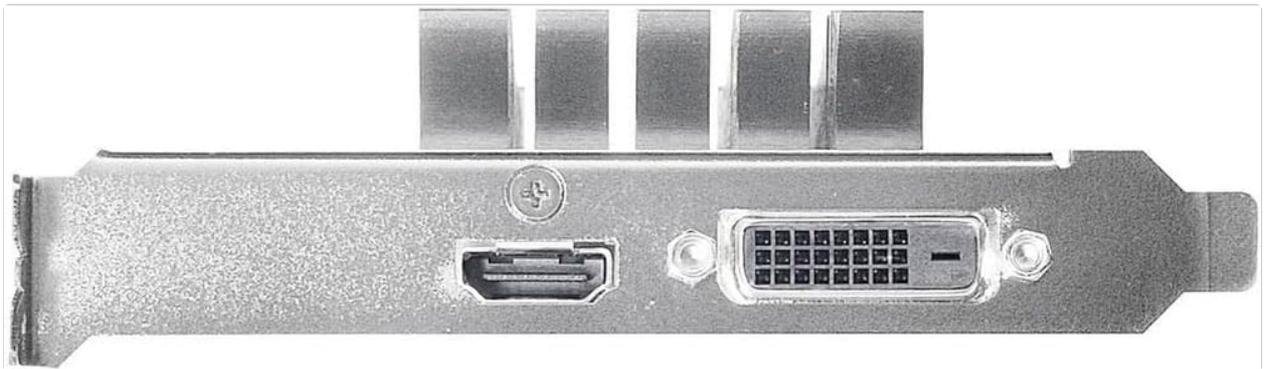Figure 2: Side view of the graphics card, showing the passive heatsink design.

Figure 3: Rear bracket of the graphics card, featuring HDMI and DVI output ports.

3.3 Driver Installation

After hardware installation, you need to install the graphics drivers:

1. **Power On:** Reconnect the power cable and turn on your computer.
2. **Download Drivers:** Visit the official ASUS support website or NVIDIA's driver download page. Select your graphics card model (GeForce GT 1030) and operating system to download the latest drivers.
3. **Run Installer:** Execute the downloaded driver installer and follow the on-screen prompts.
4. **Restart System:** Restart your computer after the driver installation is complete to apply all changes.

4. OPERATING YOUR GRAPHICS CARD

4.1 Connecting Displays

The ASUS GeForce GT 1030 GT1030-2G-CSM supports both HDMI and DVI outputs. Connect your monitor(s) to the appropriate ports on the graphics card. For optimal performance, ensure your display cables are securely connected.

4.2 Software Utilities (GPU Tweak II)

GPU Tweak II is an intuitive utility that allows you to monitor your graphics card's performance, adjust clock speeds, voltage, and fan performance (if applicable, for passive cooling this primarily involves monitoring temperatures). You can download GPU Tweak II from the official ASUS support website. This software helps you achieve an optimal balance between performance, cooling, and noise levels for your specific usage.

5. MAINTENANCE

5.1 Cleaning

To ensure optimal performance and longevity, periodically clean your graphics card. Since this model features a passive heatsink, it is important to keep the fins free of dust. Use compressed air to gently blow dust out of the heatsink fins. Ensure your computer is powered off and unplugged before cleaning. Avoid using liquid cleaners directly on the card.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

- **No Display Output:**
  - Ensure the monitor cable is securely connected to the graphics card and the monitor.
  - Verify the graphics card is fully seated in the PCIe slot.
  - Check if your monitor is set to the correct input source (HDMI/DVI).
  - Try connecting to a different display or using a different cable to rule out external issues.

- **Driver Installation Problems:**
  - Ensure you have downloaded the correct drivers for your operating system and graphics card model from the official ASUS or NVIDIA website.
  - Uninstall any previous graphics drivers before installing new ones.
  - Temporarily disable antivirus software during driver installation.

- **Overheating:**
  - Ensure adequate airflow within your computer case.
  - Clean the graphics card's heatsink regularly to remove dust buildup.
  - Monitor temperatures using GPU Tweak II or similar software.
  - Consider improving case ventilation if temperatures remain high.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	ASUS
Series	GT1030-2G-CSM
Item Model Number	GT1030-2G-CSM
Graphics Coprocessor	NVIDIA GeForce GT 1030
Chipset Brand	NVIDIA

Feature	Specification
Graphics Card RAM Size	2 GB GDDR5
Memory Speed	1228 MHz
Max Screen Resolution	1920x1200 Pixels
Video Output Interface	DVI, HDMI
Item Weight	1.03 pounds (approx. 0.47 kg)
Product Dimensions (LxWxH)	6.8 x 2.7 x 1.5 inches (approx. 17.3 x 6.9 x 3.8 cm)
Form Factor	Low Profile

8. WARRANTY AND SUPPORT

Your ASUS GeForce GT 1030 GT1030-2G-CSM graphics card comes with a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official ASUS support website. For technical assistance, driver downloads, and further support, please visit www.asus.com/support/.

9. IMPORTANT SAFETY INFORMATION

- Always disconnect the power cable from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD) damage to components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.
- Keep out of reach of children.