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GIGABYTE E082136

GIGABYTE GeForce GTX 1050 OC 2G

USER MANUAL

1. Introduction

The GIGABYTE GeForce GTX 1050 OC 2G (Model: E082136) is a high-performance graphics card designed to enhance your computing experience, particularly for gaming and multimedia applications. Featuring 2GB of GDDR5 memory and powered by NVIDIA's GeForce GTX 1050 GPU, this card offers efficient performance and supports modern display technologies. Its compact design makes it suitable for a wide range of PC builds.
Key features include:

- NVIDIA GeForce GTX 1050 GPU
- 2GB GDDR5 Memory
- PCI Express x16 3.0 Interface
- Multiple display outputs: 2 x HDMI, 1 x DVI-D, 1 x DisplayPort
- GIGABYTE XTREME Engine Utility for easy tuning

2. Package Contents

Please verify that all items are present in your package:

- GIGABYTE GeForce GTX 1050 OC 2G Graphics Card
- Quick Start Guide (this manual)
- Driver CD (or download instructions)

3. Setup and Installation

3.1. System Requirements

- PCI Express x16 slot on motherboard
- Minimum 300W power supply unit (PSU) recommended
- Microsoft Windows 10, 8.1, 8, 7 (32-bit or 64-bit)
- Internet connection for driver download (if no CD)

3.2. Hardware Installation

1. **Safety First:** Before beginning, turn off your computer and unplug the power cord from the wall outlet. Ground yourself by touching a metal part of your computer case to discharge any static electricity.
2. **Open the PC Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate PCI Express Slot:** Identify an available PCI Express x16 slot on your motherboard. This is typically the longest slot. Remove the corresponding metal bracket cover from the back of your PC case.
4. **Insert the Graphics Card:** Carefully align the graphics card with the PCI Express x16 slot. Press down firmly and evenly until the card is fully seated in the slot. You should hear a click as the retention clip engages.
5. **Secure the Card:** Use a screw to secure the graphics card's mounting bracket to the PC case.
6. **Connect Displays:** Connect your monitor(s) to the appropriate display outputs (HDMI, DVI-D, or DisplayPort) on the graphics card.
7. **Close PC Case:** Replace the side panel of your computer case and reconnect the power cord.



Figure 1: Angled view of the graphics card, illustrating its form factor for installation.



Figure 2: Rear view of the graphics card, highlighting the available display output ports.

3.3. Software Installation

1. **Power On:** Turn on your computer. Windows should automatically detect the new hardware and install a basic display driver.
2. **Install NVIDIA Drivers:**
    - **From CD:** Insert the provided driver CD into your optical drive and follow the on-screen instructions.
    - **From Website:** Visit the official NVIDIA website (www.nvidia.com/drivers) or GIGABYTE's product support page. Select your product (GeForce GTX 1050) and operating system to download the latest drivers. Run the downloaded installer and follow the prompts.
3. **Install GIGABYTE XTREME Engine Utility:** Download and install the GIGABYTE XTREME Engine utility from the GIGABYTE website. This software allows for easy monitoring and tuning of your graphics card.

4. Operating the Graphics Card

Once installed, your GIGABYTE GeForce GTX 1050 OC 2G will automatically handle graphics processing for your system. For advanced control and optimization, utilize the GIGABYTE XTREME Engine utility.

4.1. Using GIGABYTE XTREME Engine

The XTREME Engine utility provides an intuitive interface to:

- Monitor GPU clock speed, memory clock speed, temperature, and fan speed.
- Adjust clock speeds for performance tuning (overclocking) or power saving.
- Customize fan profiles for optimal cooling and noise levels.
- Update firmware (if available).

Refer to the XTREME Engine software's built-in help or GIGABYTE's website for detailed instructions on using its features.

4.2. Multi-Monitor Setup

The card supports multiple displays. Connect additional monitors to the available DVI-D, HDMI, or DisplayPort outputs. Configure your display settings through your operating system's display settings or the NVIDIA Control Panel.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the graphics card's heatsink and fan using compressed air. Ensure the system is powered off and unplugged before cleaning. Avoid touching the circuit board directly.
- **Driver Updates:** Regularly check for and install the latest NVIDIA graphics drivers. Driver updates often include performance improvements, bug fixes, and compatibility enhancements for new games and applications.
- **System Airflow:** Ensure good airflow within your PC case to prevent overheating. Keep cables tidy and ensure case fans are functioning correctly.

6. Troubleshooting

If you encounter issues with your graphics card, try the following troubleshooting steps:

6.1. No Display Output

- Ensure the monitor cable is securely connected to both the graphics card and the monitor.
- Verify that the monitor is powered on and set to the correct input source.
- Check if the graphics card is fully seated in the PCI Express slot.
- Try connecting the monitor to a different display output on the card.
- If your CPU has integrated graphics, try connecting the monitor to the motherboard's video output to confirm the system boots.

6.2. Driver Issues or Crashes

- Perform a clean installation of the NVIDIA drivers. Uninstall existing drivers using Display Driver Uninstaller (DDU) in Safe Mode, then install the latest drivers.
- Ensure your operating system is up to date.
- Check for conflicts with other software.

6.3. Poor Performance in Games/Applications

- Ensure you have the latest graphics drivers installed.
- Check in-game graphics settings and lower them if necessary.
- Monitor GPU temperature using XTREME Engine to ensure it's not overheating, which can cause throttling.
- Verify that your system meets the minimum requirements for the application.

7. Specifications

Feature	Specification
Graphics Processing Unit	NVIDIA GeForce GTX 1050
Core Clock	Boost: 1518 MHz / Base: 1404 MHz (OC Mode) Boost: 1493 MHz / Base: 1379 MHz (Gaming Mode)
Memory Clock	7008 MHz
Memory Size	2 GB
Memory Type	GDDR5
Memory Bus	128-bit

Feature	Specification
Card Bus	PCI-E 3.0 x 16
Digital Max Resolution	7680x4320
Multi-view	3
I/O Ports	1 x Dual-link DVI-D 2 x HDMI 2.0b 1 x DisplayPort 1.4
Card Dimensions (L x W x H)	11.73 x 8.27 x 2.09 inches (approx.)
Item Weight	14.2 ounces (approx.)
Recommended PSU	300W

8. Warranty and Support

GIGABYTE products are manufactured to the highest quality standards. This product is covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty information included with your product or visit the official GIGABYTE website.

For technical support, driver downloads, and further product information, please visit the official GIGABYTE support website:

www.gigabyte.com/Support

When contacting support, please have your product model number (E082136) and serial number ready.

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