ASUS G13CH-PB555

ASUS ROG G13CH Gaming Desktop PC User Manual

Model: G13CH-PB555

1. INTRODUCTION

Welcome to the user manual for your new ASUS ROG G13CH Gaming Desktop PC. This powerful system is designed to elevate your gaming experience with its high-performance components and advanced features. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your desktop.

The ASUS ROG G13CH is equipped with an Intel Core i5-13400F processor, an NVIDIA GeForce RTX 3050 GPU, 8GB of DDR4 RAM, and a 1TB NVMe PCIe SSD, all running on Windows 11. Its futuristic chassis features customizable RGB lighting and an airflow-optimized design for sustained performance.

Figure 1.1: Front view of the ASUS ROG G13CH Gaming Desktop PC.

2. KEY FEATURES

- **Powerful Performance:** Equipped with an Intel Core i5-13400F processor and NVIDIA GeForce RTX 3050 GPU for exceptional gaming and multitasking.

- **Fast Memory and Storage:** Features 8GB of 3200MHz DDR4 RAM and a 1TB NVMe PCIe SSD for quick loading times and responsive performance.

- **Futuristic Design:** Armored and mechanical chassis with interior RGB lighting and a front panel light bar for customizable aesthetics.

- **Optimized Airflow:** Redesigned chassis with additional venting on front and top panels, and distinct CPU/GPU zones to maintain optimal temperatures and low noise levels.

- **Abundant Connectivity:** Robust I/O options including multiple USB 3.0 ports, HDMI, DisplayPort, and LAN for various peripherals and multi-monitor setups.

- **Lightspeed Wireless:** Wi-Fi 6E support ensures low latency and high-speed connections.

- **Immersive Audio:** Dolby Atmos audio support and Two-Way AI Noise-Cancellation Technology for rich soundscapes and clear communication.

2.1 Visual Features

Strix Styling

The G13CH features an armored and mechanical look with customizable interior RGB lighting and a built-in light bar on the front panel.

STRIX STYLING

Inspired by futuristic robots inhabiting the ROG SAGA universe, the G13CH has an armored and mechanical look. Enhance your machine further with customizable interior RGB lighting and a built-in light bar on the front panel.

CHOOSE YOUR SIDE

Make the G13CH uniquely yours with two side panel options. Opt for either a sleek metal side panel or choose the transparent panel to sneak a peek at the inside of your machine.

Figure 2.1: Strix Styling and side panel options.

Airflow Optimized Design

Additional venting on the front and top panels, along with distinct zones for the CPU and GPU, ensure efficient cooling and quiet operation.

AIRFLOW OPTIMIZED

The G13CH has been redesigned for 2023. The aerodynamic exterior has additional venting on the front and top panels to increase system airflow. With distinct zones for the CPU and GPU, this airflow-optimized chassis lets the powerful components breathe easily while keeping noise levels under 40db for quieter gameplay.

Abundant Connectivity

The rear I/O panel provides a wide range of ports for connecting monitors, peripherals, and network cables.

Figure 2.3: Connectivity ports on the G13CH.

Lightspeed Connection

Integrated Wi-Fi 6E support ensures stable and fast wireless networking for online gaming and streaming.

Figure 2.4: Wi-Fi 6E connectivity.

3. SETUP GUIDE

3.1 Unboxing and Contents

Carefully remove your ASUS ROG G13CH desktop from its packaging. Ensure all components are present.

The box should contain:

- ASUS ROG G13CH Desktop PC (Model: G13CH-PB555)
- Wired Keyboard
- Wired Mouse
- Power Cable
- Documentation (Quick Start Guide, Warranty Card)

3.2 Connecting Peripherals

1. **Power Connection:** Connect the power cable to the desktop's power supply unit (PSU) input and then to a wall outlet. Ensure the power supply switch on the back of the PC is in the 'ON' position. This switch is separate from the main power button on the front.

2. **Monitor Connection:** Connect your monitor's video cable (HDMI or DisplayPort) to the corresponding port on the **NVIDIA GeForce RTX 3050 graphics card** located at the lower section of the rear I/O panel.**Important:** Do not connect your monitor to the video ports on the motherboard (upper section of the rear I/O panel) if a dedicated graphics card is installed, as this may result in no display output.

3. **Keyboard and Mouse:** Connect the wired keyboard and mouse to any available USB ports on the rear I/O panel.

4. **Network Connection (Optional):** For a wired internet connection, connect an Ethernet cable from your router or modem to the LAN port on the rear I/O panel. For wireless, ensure your Wi-Fi 6E router is powered on.

5. **Audio Devices (Optional):** Connect speakers or headphones to the audio jacks on the rear I/O panel or the front

panel headset audio port.

Figure 3.1: Rear I/O panel with connectivity options.

3.3 Initial Power On

Once all peripherals are connected, press the main power button located on the front panel of the desktop. The system will boot into Windows 11. Follow the on-screen instructions for initial Windows setup.

4. OPERATING YOUR DESKTOP

4.1 Windows 11 Operating System

Your ASUS ROG G13CH comes pre-installed with Windows 11 Home. Familiarize yourself with the Windows 11 interface for optimal use. Regular Windows updates are recommended for security and performance.

4.2 ASUS Armoury Crate

Armoury Crate is ASUS's unified software suite that allows you to control various aspects of your ROG G13CH, including:

- **System Monitoring:** View CPU, GPU, and memory usage, temperatures, and fan speeds.
- **Performance Modes:** Switch between different performance profiles (e.g., Silent, Performance, Turbo) to optimize for specific tasks.
- **Aura Sync Lighting:** Customize the interior RGB lighting and front panel light bar to match your gaming setup.
- **Game Library:** Organize and launch your games.
- **Driver Updates:** Keep your system drivers up-to-date.

Launch Armoury Crate from the Windows Start Menu or desktop shortcut to explore its features.

4.3 Audio Experience

The G13CH supports Dolby Atmos audio, providing an immersive sound experience for games, movies, and music. Additionally, Two-Way AI Noise-Cancellation Technology enhances communication by filtering out background noise from both incoming and outgoing audio streams.

5. MAINTENANCE

5.1 Cleaning Your Desktop

- **Exterior:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe down the exterior surfaces. Avoid harsh chemicals.

- **Vents:** Regularly inspect and clean the air vents on the front, top, and rear of the chassis to prevent dust buildup. Use compressed air to gently blow dust out of the vents. Ensure the system is powered off and unplugged before cleaning.

- **Interior (Advanced Users):** For internal cleaning, it is recommended to consult a professional or refer to detailed guides. Opening the chassis may affect warranty.

5.2 Software Updates

- **Windows Updates:** Ensure Windows Update is enabled and regularly check for and install the latest operating system updates.

- **Driver Updates:** Use ASUS Armoury Crate or visit the official ASUS support website to download and install the latest drivers for your graphics card, chipset, and other components. Keeping drivers updated ensures optimal performance and stability.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ASUS ROG G13CH desktop.

6.1 No Display Output

- **Check Monitor Cable:** Ensure the video cable (HDMI/DisplayPort) is securely connected to both the monitor and the graphics card's output port on the desktop.

- **Correct Port:** Verify that the monitor cable is connected to the dedicated graphics card ports (NVIDIA GeForce RTX 3050) and not the integrated graphics ports on the motherboard.

- **Monitor Input:** Confirm your monitor is set to the correct input source (e.g., HDMI 1, DisplayPort).

- **Power Cycle:** Turn off both the desktop and monitor, unplug their power cables, wait 30 seconds, then plug them back in and power on.

6.2 System Freezes or Crashes (Blackscreens)

- **Driver Updates:** Ensure your graphics card drivers and chipset drivers are up-to-date. Use Armoury Crate or download directly from ASUS/NVIDIA websites.

- **Temperature Monitoring:** High temperatures can cause instability. Use Armoury Crate to monitor CPU and GPU temperatures. Ensure proper airflow and clean vents.

- **Power Settings:** Verify Windows power settings are configured for optimal performance and stability.

- **System Files:** Run Windows System File Checker (SFC) to check for corrupted system files. Open Command

Prompt as administrator and type **sfc /scannow**.

- **Windows Updates:** Ensure all Windows updates are installed.

6.3 Excessive Fan Noise

- **Dust Buildup:** Clean the air vents and internal components to remove dust that can impede airflow and cause fans to work harder.

- **Performance Mode:** Check the performance mode in Armoury Crate. Switching to "Silent" or "Balanced" mode may reduce fan speeds, though it might slightly impact performance.

- **Ambient Temperature:** Ensure the room temperature is not excessively high, as this can lead to higher internal temperatures and increased fan activity.

7. SPECIFICATIONS

Component	Specification
Processor	Intel Core i5-13400F (4.6 GHz)
Graphics Card	NVIDIA GeForce RTX 3050 (Dedicated)
RAM	8 GB DDR4 (3200MHz)
Storage	1 TB NVMe PCIe SSD
Operating System	Windows 11 Home
Wireless Connectivity	Wi-Fi 6E
USB 3.0 Ports	4
Dimensions (LxWxH)	7.09 x 16.93 x 16.85 inches
Item Weight	30 pounds

8. WARRANTY AND SUPPORT

Your ASUS ROG G13CH desktop comes with comprehensive warranty coverage to ensure your peace of mind.

- **Minimum 12-Month Warranty:** Every ROG Desktop includes a minimum 12-month warranty from the date of purchase. This warranty covers manufacturing defects and ensures expert support.

- **90-Day Warranty on Replacement Parts:** ASUS provides a 90-day warranty on all warranty replacement parts, ensuring hassle-free repairs.

- **Support:** For technical assistance, diagnostics, or warranty claims, please visit the official ASUS support website or contact ASUS customer service. Have your product model number (G13CH-PB555) and serial number ready when contacting support.

Figure 8.1: ASUS ROG Warranty and Service details.
For more information and support resources, visit the official ASUS website:www.asus.com/us/support/

Related Documents - G13CH-PB555

	[ASUS ROG Product Guide: Gaming Laptops, Desktops, and Peripherals](#) Explore the latest ASUS Republic of Gamers (ROG) gaming laptops, desktops, and peripherals. Discover cutting-edge technology, award-winning designs, and detailed specifications for the ultimate gaming experience.
	[ASUS G13CH Desktop PC User Guide](#) This user guide provides comprehensive instructions and information for the ASUS G13CH Desktop PC, covering setup, operation, connectivity, troubleshooting, and safety guidelines.
	[ASUS ZenBook Duo 14 (UX482) and ASUS Product Guide](#) Discover the latest ASUS laptops and computing devices, including the innovative ZenBook Duo 14 (UX482), VivoBook, ExpertBook, and ProArt series. This guide provides product details, specifications, warranty, and service information.

	[ASUS ROG Product Guide 2018 Q4: Gaming Laptops, Desktops, and Phones](#) Explore the 2018 Q4 ASUS Republic of Gamers (ROG) product guide, featuring the latest gaming laptops, desktops, and phones. Discover cutting-edge performance, design, and technology for ultimate gaming experiences.
	[ASUS ROG Gaming Laptop Product Guide Nov 2021 - Dec 2021](#) Explore the latest ASUS Republic of Gamers (ROG) gaming laptops, including Strix, Zephyrus, Flow, and TUF Gaming series. Discover cutting-edge features, performance benchmarks, and innovations designed for gamers.
	[Alphacool Core GeForce RTX 5080 ROG Astral Water Cooler with Backplate](#) Detailed information on the Alphacool Core GeForce RTX 5080 ROG Astral water cooler with backplate, including features, specifications, compatibility, and package contents.

Documents - ASUS – G13CH-PB555

no relevant documents