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> GIGABYTE AORUS Gaming Desktop PC AORUS Prime 5 AP5A7N7T-5000 User Manual

GIGABYTE AORUS PRIME 5 AP5A7N7T-5000

GIGABYTE AORUS Gaming Desktop PC

AORUS PRIME 5 AP5A7N7T-5000 USER MANUAL

1. Introduction

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your GIGABYTE AORUS Prime 5 AP5A7N7T-5000 Gaming Desktop PC. Please read this manual thoroughly before using your new system to ensure proper functionality and longevity.

The AORUS Prime 5 is a high-performance gaming desktop featuring an AMD Ryzen 7 9700X Processor, NVIDIA GeForce RTX 5070 Ti Graphics Card, 32GB DDR5 RAM, and a 2TB PCIe Gen4 NVMe M.2 SSD. It operates on Windows 11 and includes a 360mm liquid cooler for optimal thermal management.



Figure 1: GIGABYTE AORUS Prime 5 Gaming Desktop PC overview.

2. What's in the Box

Verify that all items are present in the packaging:

- GIGABYTE AORUS Prime 5 Gaming Desktop PC
- Power Cable
- User Manual (this document)
- Warranty Card
- Accessory Kit (may include SATA cables, screws, etc.)

3. Setup

Follow these steps to set up your GIGABYTE AORUS Prime 5 Gaming Desktop PC.

3.1 Unboxing and Placement

1. Carefully remove the PC from its packaging. Retain all packaging materials for future transport or service.
2. Place the PC on a stable, flat surface with adequate ventilation. Ensure there is clear space around the air intakes and exhausts.
3. Remove any protective films or internal packaging materials from the PC, especially from the tempered glass side panel.

PLAY BEYOND THE EDGE

AMD Ryzen 7 9700X
Processor

NVIDIA® GeForce RTX 5070 Ti
GPU

32GB DDR5
RAM

850W 80+ Gold
Power Supply

2TB PCIE 4.0
NVMe SSD

GEFORCE RTX
Powering Advanced AI

Figure 2: Front view of the AORUS Prime 5 PC.

3.2 Connecting Peripherals

Connect your monitor, keyboard, mouse, and other peripherals to the appropriate ports on the rear and front of the PC.

- **Monitor:** Connect your monitor(s) to the graphics card's DisplayPort or HDMI outputs. Ensure the cable is securely fastened.
- **Keyboard and Mouse:** Connect your keyboard and mouse to any available USB ports. For optimal performance, use USB 3.0 or higher ports.
- **Network:** Connect an Ethernet cable to the LAN port for a wired internet connection, or ensure your Wi-Fi antenna is connected for wireless connectivity.
- **Audio:** Connect speakers or headphones to the audio jacks.
- **Power:** Connect the power cable to the PC's power supply unit (PSU) and then to a wall outlet.



Figure 3: Rear I/O and Front Panel Ports.

3.3 First Boot and Windows Setup

1. Press the power button located on the front panel of the PC.
2. Follow the on-screen instructions to complete the Windows 11 setup process. This typically involves selecting your region, language, creating a user account, and accepting the license agreement.
3. After Windows is set up, it is recommended to install the GIGABYTE Control Center (GCC) software. This application helps manage drivers, BIOS updates, and RGB lighting.
4. Ensure all drivers are up-to-date. While GCC assists, also check Windows Update and the official GIGABYTE website for the latest drivers for your specific model.

4. Operating

This section covers general operation and key features of your AORUS Prime 5 PC.

4.1 System Performance

Your AORUS Prime 5 is equipped with an AMD Ryzen 7 9700X processor and an NVIDIA GeForce RTX 5070 Ti

graphics card, providing robust performance for gaming, content creation, and demanding applications.



Figure 4: AMD Ryzen 7 9700X Processor.



Figure 5: NVIDIA GeForce RTX 5070 Ti Graphics Card.

4.2 Cooling System

The system features a 360mm liquid cooler and WINDFORCE cooling technology with Hawk Fans to maintain optimal temperatures during intensive use. This design ensures efficient heat dissipation and sustained performance.

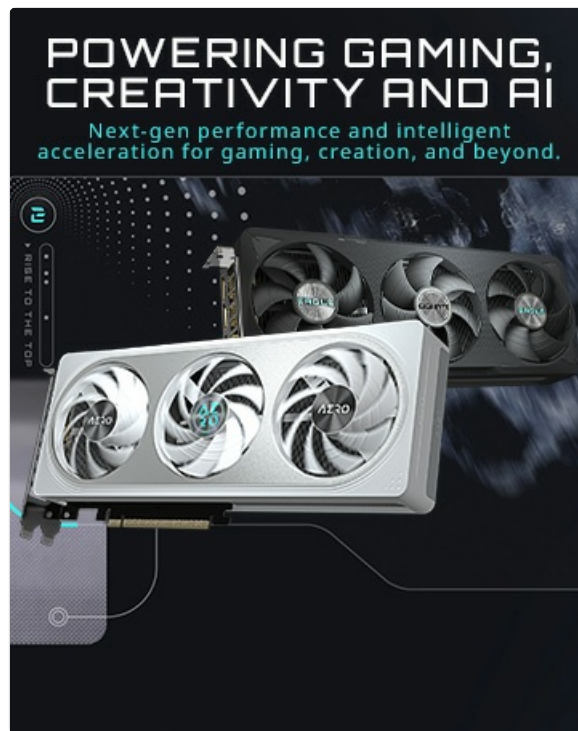


Figure 6: All-Round Cooling Airflow.

4.3 RGB Fusion 2.0

Customize the 16.7 million ARGB lighting effects using the GIGABYTE Control Center (GCC) software. You can synchronize lighting across compatible components to personalize your system's aesthetic.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your PC.

5.1 General Cleaning

- **Exterior:** Use a soft, damp cloth to clean the exterior surfaces. Avoid harsh chemicals.
- **Dust Filters:** Periodically clean the dust filters (if present) to maintain optimal airflow.
- **Interior:** Every 6-12 months, carefully open the side panel and use compressed air to remove dust from internal components, especially fans and heatsinks. Ensure the PC is powered off and unplugged before opening.

5.2 Software Updates

- **Windows Updates:** Regularly check for and install Windows updates to ensure system stability and security.
- **Driver Updates:** Use the GIGABYTE Control Center (GCC) or visit the official GIGABYTE website to download and install the latest drivers for your motherboard, graphics card, and other components.

5.3 Liquid Cooling System

The 360mm liquid cooler is a closed-loop system and generally requires minimal maintenance. However, ensure the radiator fins are free of dust and the fans are spinning correctly. Do not attempt to open or refill the liquid cooler.

6. Troubleshooting

This section addresses common issues you might encounter.

6.1 No Power / System Not Starting

- Ensure the power cable is securely connected to both the PC and the wall outlet.
- Check the power switch on the back of the power supply unit (PSU) is in the 'ON' position.
- Try a different power outlet or power cable.

6.2 No Display on Monitor

- Verify that the monitor is powered on and the video cable is securely connected to the graphics card's output ports (DisplayPort or HDMI), not the motherboard's integrated video ports.
- Try a different video cable or monitor if available.

6.3 Slow Internet Speed

- If experiencing slow internet speeds, particularly with a wired connection, check for pre-installed network optimization software such as **cFosSpeed** (sometimes bundled with GIGABYTE software). Uninstalling this program has resolved network performance issues for some users.
- Ensure your network drivers are up-to-date.
- Verify your router and internet service provider connection.

6.4 High CPU Temperatures / System Instability

- Ensure the PC has adequate airflow and is not placed in an enclosed space.
- Check that the liquid cooler's pump and fans are operating correctly. You should hear the pump running and see the fans spinning.
- If temperatures remain high, it may indicate an issue with the liquid cooler's contact with the CPU. This typically requires professional inspection.

6.5 GPU Fan Noise / System Lock-ups

- Excessive GPU fan noise or system lock-ups during heavy load can indicate thermal issues or driver problems.
- Ensure graphics drivers are updated to the latest version.
- Monitor GPU temperatures using monitoring software. If temperatures are consistently high, ensure the PC has good airflow.
- If issues persist, contact GIGABYTE support.

7. Specifications

Detailed technical specifications for the GIGABYTE AORUS Prime 5 AP5A7N7T-5000 Gaming Desktop PC.

Feature	Specification
Brand	GIGABYTE
Model Name	AORUS PRIME 5 AP5A7N7T-5000
Operating System	Windows 11 Home
CPU Model	AMD Ryzen 7 9700X
CPU Speed	3.8 GHz
Graphics Coprocessor	GeForce RTX™ 5070Ti WINDFORCE OC
Graphics Card RAM	16 GB GDDR7

Feature	Specification
RAM Memory Installed Size	32 GB DDR5
RAM Memory Maximum Size	256 GB
Memory Speed	5600 MHz
Hard Disk Description	2TB SSD (PCIe Gen4 NVMe M.2)
Power Consumption	850 Watts
Item Dimensions (LxWxH)	12.6 x 21.5 x 23.8 inches
Connectivity Technology	Bluetooth, Ethernet, Wi-Fi (Wi-Fi 6)
Video Output	DisplayPort, HDMI
Total USB Ports	9
Additional Features	DLSS 4.0 Technology, Liquid Cooling System, RGB Lighting, Tempered Glass

8. Warranty and Support

Your GIGABYTE AORUS Prime 5 AP5A7N7T-5000 Gaming Desktop PC comes with a **1 Year Manufacturer Warranty**.

For technical support, warranty claims, or further assistance, please visit the official GIGABYTE support website or contact their customer service. Keep your purchase receipt and product serial number handy when contacting support.

- **GIGABYTE Support Website:** www.gigabyte.com/support