## HP TG03-0030

# HP OMEN 16L Gaming Desktop PC TG03-0030 User Manual

## 1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP OMEN 16L Gaming Desktop PC, model TG03-0030. Designed for high-performance gaming and creative tasks, this desktop combines powerful hardware with a compact design.

## 2. WHAT'S IN THE BOX

Upon unboxing your HP OMEN 16L Gaming Desktop PC, verify that all the following components are included:

- OMEN 16L Gaming Desktop TG03-0030 PC
- HP USB white wired keyboard
- HP USB white wired mouse
- 500 W 80 Plus Platinum certified power supply
- Setup instructions
- 3 months of PC Game Pass (digital code or activation instructions)

# WHAT'S IN THE BOX



- OMEN 16L Gaming Desktop PC
- HP USB white wired keyboard
- HP USB white wired mouse
- 500 W 80 Plus Platinum certified power supply
- 3 free months of PC Game Pass
- Setup instructions
- 12.76 lb

Color: Panda metal

12.12″ (H)

13.26″ (D)

6.10″ (W)

Image: The HP OMEN 16L Gaming Desktop PC and its included accessories: a white wired keyboard, a white wired mouse, and the power supply. The desktop dimensions are also indicated.

## 3. SETUP

### 3.1 Initial Connection

1. Place the desktop on a stable, flat surface with adequate ventilation.
2. Connect your monitor(s) to the appropriate display ports (HDMI, DisplayPort) on the rear of the PC.
3. Connect the HP USB white wired keyboard and mouse to any available USB ports.
4. Connect the power supply cable to the PC and then to a power outlet.
5. Press the power button on the front of the desktop to turn it on.

### 3.2 Operating System Setup

Follow the on-screen instructions to complete the Windows 11 Home setup. This includes setting up your user account, network connection, and initial preferences. Microsoft Copilot is integrated to assist with productivity and creativity.

Image: The Microsoft Copilot key on the keyboard, highlighting its function for intelligent assistance within Windows 11.

# 4. FEATURES & COMPONENTS

## 4.1 Core Components

- **Processor:** AMD Ryzen 7 8700G with integrated Neural Processing Unit (NPU) for enhanced AI capabilities.
- **Graphics:** NVIDIA GeForce RTX 5060 Ti with 16 GB GDDR7 dedicated memory, powered by NVIDIA Blackwell architecture.
- **RAM:** 32 GB DDR5 RAM (5200 MHz) for high bandwidth and multitasking performance.
- **Storage:** 1 TB PCIe Gen4 NVMe M.2 Solid-State Drive (SSD) for fast data access and efficient storage.
- **Operating System:** Windows 11 Home.



# OMEN 16L GAMING DESKTOP

| | |
|---|---|
| AMD Ryzen™ 7 8700G processor | |
| XPG LANCER 32 GB DDR5-5200 MT/s RGB Heatsink RAM (2 x 16 GB) | |
| 1 TB PCIe® Gen4 NVMe™ M.2 SSD | |
| NVIDIA® GeForce RTX™ 5060 Ti (16 GB GDDR7 dedicated memory) | |

OMEN

Image: A visual summary of the OMEN 16L Gaming Desktop's core specifications, including CPU, RAM, SSD, and GPU.

## 4.2 Connectivity (Ports)

The desktop offers a variety of ports for connecting peripherals and displays:

- **Front Ports:** Headphone jack, Microphone jack, 2x USB Type-A (5Gbps signaling rate), 2x USB Type-A (10Gbps signaling rate), 1x USB Type-C (5Gbps signaling rate), 1x USB Type-C (10Gbps signaling rate).
- **Rear Ports:** 4x USB 2.0 Type-A, 3x 3.5mm audio jacks (Line-in/Line-out/Mic), RJ-45 (Ethernet), HDMI, 3x DisplayPort.
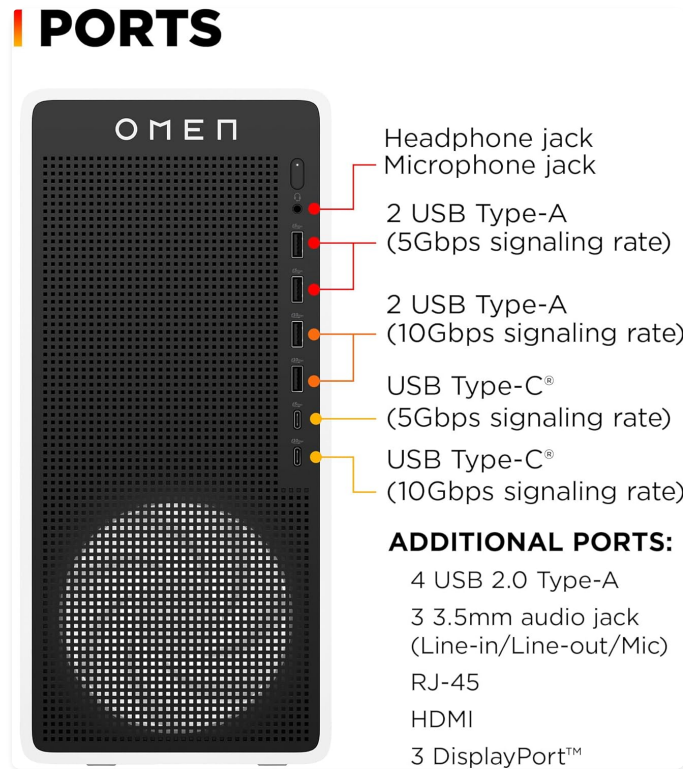- **Wireless:** 802.11ax (Wi-Fi 6E), Bluetooth 5.3.



Image: An illustration detailing the location and type of front and additional rear ports available on the OMEN 16L Gaming Desktop PC.

# 5. OPERATING YOUR PC

## 5.1 Gaming Experience

The OMEN 16L is designed to deliver an elevated gaming experience:

- **Compact Design:** Its 16L chassis fits easily into various spaces while maintaining powerful performance.
- **DTS X Ultra Technology:** Provides authentic, spatially accurate 3D sound for immersive audio in games, movies, and music.

## COMPACT SIZE, BIG PLAYS

From small spaces to massive quests, this desktop fits effortlessly into any room.

Image: The OMEN 16L Gaming Desktop PC, highlighting its compact size suitable for various environments.
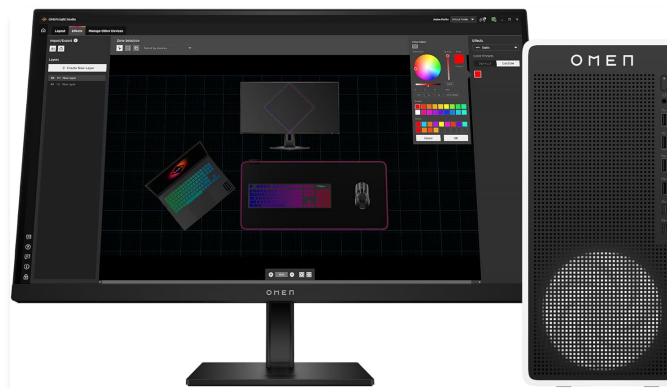


## AI CHANGES THE GAME

NVIDIA® GeForce RTX™ 5060 Ti, powered by the NVIDIA Blackwell architecture, enables game-changing AI capabilities in the latest games and apps.

Image: The NVIDIA GeForce RTX logo, emphasizing the AI-driven capabilities of the RTX 5060 Ti GPU for gaming and creative applications.

## 5.2 OMEN Software Integration

- **OMEN Light Studio:** Customize RGB lighting effects for your PC and connected supported devices through a single application.
- **OMEN AI:** Provides personalized settings recommendations to optimize FPS for supported games, eliminating manual adjustments.
- **OMEN Gaming Hub:** A centralized platform for software enhancements, hardware control, and live services to enhance your gaming experience.

## PERSONALIZE YOUR WAY

Customize your PC with RGB effects through OMEN Light Studio and get personalized settings recommendations with OMEN AI.

Monitor sold separately.

Image: The OMEN Light Studio software interface on a monitor, demonstrating the customization options for RGB lighting on the desktop and peripherals.



## YOUR ONE PLACE FOR EVERYTHING

From software enhancements to hardware control and live services, OMEN Gaming Hub elevates play in an easy and simple way.

Monitor sold separately.

Image: The OMEN Gaming Hub interface on a monitor, illustrating its role as a central control for system performance, hardware, and services.

## 6. MAINTENANCE

To ensure optimal performance and longevity of your HP OMEN 16L Gaming Desktop PC, follow these maintenance guidelines:

- Keep the desktop in a clean, dust-free environment. Regularly clean the exterior with a soft, dry cloth.
- Ensure proper airflow by keeping vents clear of obstructions.
- Periodically check for and install operating system updates and driver updates for your components.
- Avoid placing heavy objects on top of the desktop.

## 7. TROUBLESHOOTING

If you encounter issues with your HP OMEN 16L Gaming Desktop PC, consider the following basic troubleshooting steps:

- **No Power:** Verify all power cables are securely connected to the PC and the power outlet. Try a different outlet.
- **No Display:** Ensure your monitor is powered on and correctly connected to the PC's graphics card ports. Try a different display cable or monitor if available.
- **System Slowdown:** Check for background applications consuming excessive resources. Ensure drivers and operating system are up to date.
- **Overheating:** Ensure the desktop's vents are clear and not obstructed. Consider cleaning dust from the internal components if comfortable doing so, or consult professional service.
- **Software Issues:** Restart the PC. If the issue persists, consider running system diagnostics or reinstalling problematic software.

For more advanced troubleshooting or persistent issues, refer to the HP support website or contact customer service.

## 8. SPECIFICATIONS

| Feature | Detail |
| --- | --- |
| Brand | HP |
| Series | OMEN 16L Gaming Desktop TG03-0030 PC |
| Model Number | BY1S7AA#ABA |
| Operating System | Windows 11 Home |
| Processor | AMD Ryzen 7 8700G (5.1 GHz) |
| Number of Processors | 8 |
| RAM | 32 GB DDR5 |
| Memory Speed | 5200 MHz |
| Hard Drive | 1 TB PCIe Gen4 NVMe M.2 SSD |
| Graphics Coprocessor | NVIDIA GeForce RTX 5060 Ti (16 GB GDDR7 dedicated) |
| Chipset Brand | NVIDIA |
| Wireless Type | 802.11ax, Bluetooth |
| Product Dimensions (LxWxH) | 6.1 x 13.26 x 12.12 inches |
| Item Weight | 12.76 pounds |
| Color | Snow white metal |

## 9. WARRANTY & SUPPORT

Your HP OMEN 16L Gaming Desktop PC comes with the following:

- 1-year limited hardware warranty.
- 1-year limited technical support for software and initial setup.

For detailed warranty terms and support options, please visit the official HP support website or contact HP customer service directly.

## 10. ENVIRONMENTAL CONSIDERATIONS

The OMEN 16L Gaming Desktop PC is constructed with sustainability in mind, utilizing:

- Up to 55% post-consumer recycled plastic.
- Up to 20% recycled metal.



Image: The OMEN 16L Gaming Desktop PC, emphasizing its design with environmentally conscious and recycled materials.