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› [HP OMEN 16L TG03 Gaming Desktop User Manual](#)

**HP HSC-F007MT**

# HP OMEN 16L TG03 Gaming Desktop User Manual

Model: HSC-F007MT

## 1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP OMEN 16L TG03 Gaming Desktop. Please read this guide thoroughly to ensure proper use and to maximize your system's performance and longevity.

## 2. WHAT'S IN THE BOX

Verify that all components are present before proceeding with setup:

- HP OMEN 16L Gaming Tower Desktop
- Thunderobot KG3089R Gaming Keyboard
- Power Cable
- Documentation (Quick Start Guide, Warranty Information)

## 3. SETUP GUIDE

### 3.1 Unpacking and Placement

Carefully remove the desktop and keyboard from their packaging. Place the desktop on a stable, flat surface with adequate ventilation around all sides to prevent overheating.

### 3.2 Connecting Peripherals

1. **Connect Monitor:** Use an HDMI or DisplayPort cable to connect your monitor to the graphics card ports on the rear of the desktop.
2. **Connect Keyboard:** Plug the Thunderobot KG3089R Gaming Keyboard's USB cable into an available USB port on the desktop.
3. **Connect Mouse:** Plug your mouse's USB cable into an available USB port.
4. **Connect Network (Optional):** For a wired internet connection, connect an Ethernet cable from your

router/modem to the RJ-45 port on the rear of the desktop. For wireless, ensure Wi-Fi is enabled during OS setup.

5. **Connect Power:** Plug the power cable into the desktop's power input, then into a grounded electrical outlet.

### 3.3 Initial Power On and Operating System Setup

1. Press the power button on the front of the desktop.
2. Follow the on-screen instructions to complete the Windows 11 Home setup process. This includes selecting your region, language, creating a user account, and connecting to a network.
3. Once Windows is set up, ensure all drivers are installed and updated. The OMEN Gaming Hub application can assist with system and driver updates.



Figure 1: HP OMEN 16L TG03 Gaming Desktop with Thunderobot Keyboard.

## 4. OPERATING YOUR DESKTOP

### 4.1 General Usage

Your HP OMEN 16L TG03 is equipped with an Intel Ultra 7 265F processor and NVIDIA RTX 5060 graphics, making it suitable for demanding tasks such as gaming, music production, and AI-ready workloads. Windows 11 Home provides a modern and efficient operating environment.

### 4.2 Key Features

- **High-Performance Processor:** Intel Core Ultra 7 265F (20 Cores, 20 Threads, up to 5.30GHz) for exceptional multitasking and processing power.
- **Advanced Graphics:** NVIDIA GeForce RTX 5060 with 8GB GDDR7 for realistic visuals and accelerated AI tasks.
- **Fast Memory:** 32GB DDR5 RAM (4800 MHz) ensures smooth application performance.
- **Rapid Storage:** 1TB PCIe NVMe M.2 SSD for quick boot times and fast data access.
- **Connectivity:** Comprehensive port selection including USB Type-A, USB Type-C, HDMI, DisplayPort, RJ-45, Wi-Fi 6, and Bluetooth.

The image shows the OMEN 16L TG03 Desktop from a three-quarter perspective. The left side is white with a large black fan and a perforated metal panel. The right side is black with the 'OMEN' logo and a perforated metal panel. The top edge features a series of ports: a power button, a 3.5mm audio jack, a USB 3.2 Gen 1 port, a USB 3.2 Gen 2 port, a USB 3.2 Gen 2x2 port, and a Thunderbolt 4 port.

**Power**

## GAME WITHOUT COMPROMISE

With up to an Intel Core Ultra 7 processor, the newly optimized hybrid architecture and industry-leading technology enables you to go beyond gaming and creation.

**GEFORCE RTX 5060**  
Powering Advanced AI

Intel Core  
Ultra 7 265F

Up To 64 GB  
DDR5  
DDR5 UDIMM

Up To 4TB  
PCI-E Gen.4 SSD  
PCIe M.2 SSD

Windows 11 Home

Figure 2: Key internal specifications of the OMEN 16L TG03 Desktop.

**Power**

**NVIDIA POWERS THE WORLD'S AI. AND YOURS.**

**HYPERREALISTIC. HYPERFAST.**

With the power of RTX 50 Series and third-gen RT Cores, you can experience incredibly detailed virtual worlds like never before.

**NVIDIA DLSS 4**

GeForce RTX 50 Series laptops bring game-changing capabilities to gamers and creators. Multiply performance with NVIDIA DLSS 4 Multi Frame Generation, generate images at unprecedented speed.

**GEFORCE RTX 5060**

Powering Advanced AI

Figure 3: NVIDIA RTX 5060 graphics card features, including AI-powered creativity and DLSS 4 for enhanced performance.

#### 4.3 OMEN Gaming Hub

The OMEN Gaming Hub is a pre-installed application designed to enhance your gaming experience. It provides tools for system monitoring, performance optimization, and customizable RGB lighting. Explore its features to fine-tune your desktop for specific games and applications.

# Customize Your Gaming Experience

Personalize your setup with customizable RGB lighting and personalized setting recommendations for your game in OMEN GAMING HUB.



Figure 4: The OMEN Gaming Hub interface for system management and optimization.

## 4.4 Thunderobot KG3089R Gaming Keyboard

The bundled Thunderobot KG3089R Gaming Keyboard features a compact 89-key layout with RGB mechanical switches. It offers game lighting effects and an ergonomic design for comfortable use. Refer to the keyboard's specific documentation for advanced customization.

# Shortcut Key Combinations



Figure 5: Thunderobot KG3089R Gaming Keyboard with examples of shortcut key combinations (e.g., FN+F9 for lighting effects, FN+Win to lock the Windows key).

## 5. MAINTENANCE

### 5.1 Cleaning

- Regularly clean the exterior of the desktop with a soft, dry cloth.
- Use compressed air to clear dust from ventilation grilles and ports to maintain optimal airflow and prevent overheating.
- Clean the keyboard and mouse as needed to ensure proper function.

### 5.2 Software Updates

Keep your operating system, drivers, and OMEN Gaming Hub software updated. Regular updates improve performance, security, and compatibility. Windows Update can manage OS updates, while OMEN Gaming Hub can assist with driver updates.

## 5.3 System Performance Monitoring

Utilize the OMEN Gaming Hub to monitor CPU and GPU temperatures, fan speeds, and resource usage. This helps identify potential performance issues early.

## 6. TROUBLESHOOTING

If you encounter issues with your HP OMEN 16L TG03 Gaming Desktop, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the desktop and the electrical outlet. Test the outlet with another device.
- **No Display:** Verify that the monitor is powered on and correctly connected to the graphics card. Try a different cable or monitor if available.
- **System Slowdown:** Check for background applications consuming resources using Task Manager (Ctrl+Shift+Esc). Ensure sufficient free storage space and update drivers.
- **Peripheral Not Responding:** Try connecting the keyboard or mouse to a different USB port. Restart the desktop.
- **Internet Connectivity Issues:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure the network is selected and the password is correct. Restart your router/modem.

For more complex issues, refer to the HP support website or contact HP customer service.

## 7. SPECIFICATIONS

Detailed technical specifications for the HP OMEN 16L TG03 Gaming Desktop (Model: HSC-F007MT):

Component	Specification
Processor	Intel Core Ultra 7 265F (20 Cores, 20 Threads, 1.80GHz base, up to 5.30GHz max turbo)
Graphics	NVIDIA GeForce RTX 5060 (8GB GDDR7)
RAM	32GB DDR5 (4800 MHz)
Storage	1TB PCIe NVMe M.2 SSD
Operating System	Windows 11 Home
Front Ports	1x Headphone/MIC combo jack, 4x USB Type-A (5Gbps), 2x USB Type-C (10Gbps)
Rear Ports	3x Headphone/MIC combo jack, 1x HDMI, 3x DisplayPort, 4x USB Type-A 2.0, 1x RJ-45 (Ethernet)
Wireless Connectivity	Wi-Fi 6, Bluetooth
Dimensions (LxWxH)	13.26 x 12.12 x 6.1 inches
Weight	13.91 pounds

# HP OmniDesk Desktop PC

Packed with ports ideal for multidevice homes

## Front:

- Headphone/  
MIC combo jack
- 4 USB Type-A 5Gbps
- 2 USB Type-C 10Gbps

## Rear:

- 3 Headphone/  
MIC combo jack
- HDMI Out
- 4 USB 2.0 Type-A
- RJ-45
- Power



Figure 6: Front and rear port configurations of the OMEN 16L TG03 Desktop.

## 8. WARRANTY AND SUPPORT

### 8.1 Product Warranty

Your HP OMEN 16L TG03 Gaming Desktop comes with a standard manufacturer's warranty. Please refer to the warranty documentation included with your product for specific terms, conditions, and duration.

### 8.2 Technical Support

For technical assistance, driver downloads, or further information, please visit the official HP support website or contact HP customer service. Have your product model number (HSC-F007MT) and serial number ready when seeking support.

**HP Support Website:** [support.hp.com](https://support.hp.com)

## 9. OFFICIAL PRODUCT VIDEOS

No official seller-provided product videos were found for this model that meet the embedding criteria.

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