

HP TPN-Q299

HP OMEN 17.3 RTX 5070 AI Pro Gaming Laptop User Manual

Model: TPN-Q299

INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your HP OMEN 17.3 RTX 5070 AI Pro Gaming Laptop. Please read this guide thoroughly to ensure optimal performance and longevity of your device.

1. SETUP

1.1 Unboxing and Initial Inspection

Carefully remove your laptop and all accessories from the packaging. Inspect for any signs of damage. Retain the original packaging for future transport or warranty claims.

1.2 Connecting to Power

Connect the power adapter to the laptop's AC smart pin port and then to a power outlet. The laptop can be used while charging.

1.3 Initial Power On and Operating System Setup

Press the power button to turn on the laptop. Follow the on-screen instructions to complete the Windows 11 Pro setup, including language selection, network connection, and user account creation.



Figure 1: HP OMEN 17.3 RTX 5070 AI Pro Gaming Laptop with included accessories.

1.4 Connecting Peripherals

Utilize the available ports for external devices:

- **USB Type-A:** For mice, keyboards, and other standard USB devices.
- **USB Type-C:** For high-speed data transfer and compatible peripherals.
- **HDMI:** To connect to external displays or projectors.
- **RJ-45:** For a wired Ethernet network connection.
- **Headphone/Microphone Combo:** For audio input/output devices.



Figure 2: Overview of laptop ports.

2. OPERATING YOUR LAPTOP

2.1 Powering On/Off

To power on, press the power button. To shut down, click the Start button, then Power, and select Shut down. Avoid forced shutdowns unless necessary to prevent data loss.

2.2 Display Features

Your laptop features a 17.3-inch Full HD (1920 x 1080) display with a 144 Hz refresh rate and 7ms response time for smooth visuals. It also includes IPS technology, anti-glare coating, and Low Blue Light features for enhanced viewing comfort.

EVERYTHING YOU NEED TO WIN.

OMEN 17.3" Gaming Laptop



Figure 3: The laptop's display showcasing a gaming environment.

2.3 Keyboard and Touchpad

The laptop is equipped with an RGB backlit keyboard and a numeric keypad. Customize keyboard lighting through the OMEN Gaming Hub. The integrated touchpad supports multi-touch gestures for navigation.

2.4 OMEN Gaming Hub

The OMEN Gaming Hub software allows you to monitor system vitals, control performance modes (Eco, Balanced, Performance), customize RGB keyboard lighting, manage graphics switching (Integrated, Hybrid, Discrete), boost network performance, and assign custom keys.

Your browser does not support the video tag.

Video 1: A performance check of the HP OMEN 17 Laptop, demonstrating its capabilities in various games and system settings.

3. PERFORMANCE AND KEY FEATURES

3.1 Processor and Graphics

Your HP OMEN laptop is powered by an AMD Ryzen AI 9 365 processor (10 Cores, 20 Threads, up to 5.0GHz) and features an NVIDIA GeForce RTX 5070 graphics card with 8GB GDDR6 VRAM, ensuring high performance for gaming and demanding applications.



Figure 4: AMD Ryzen AI 9 365 Processor details.

3.2 Memory and Storage

Equipped with 64GB DDR5 high-bandwidth RAM for seamless multitasking and a 2TB PCIe NVMe M.2 Solid State Drive (SSD) for rapid boot-up and data access.

3.3 Connectivity

Features Wi-Fi 6 and Bluetooth for robust wireless connections.

3.4 Cooling System

The OMEN Tempest Cooling system is designed to maintain optimal temperatures during intensive use, ensuring stable performance and longevity.



Figure 5: Key features and cooling system overview.

4. MAINTENANCE

4.1 Cleaning

Regularly clean the screen with a microfiber cloth and the keyboard/vents with compressed air to prevent dust buildup and maintain performance.

4.2 Software Updates

Keep your Windows operating system, drivers (especially graphics drivers), and OMEN Gaming Hub software updated to

ensure stability, security, and optimal performance.

4.3 Battery Care

To prolong battery life, avoid extreme temperatures and fully discharging the battery frequently. For extended storage, charge the battery to about 50%.

4.4 Storage Management

Periodically review and delete unnecessary files to free up storage space and maintain system responsiveness.

5. TROUBLESHOOTING

5.1 Common Issues

- **Slow Performance:** Check for background applications, update drivers, or scan for malware.
- **Overheating:** Ensure vents are clear, use a cooling pad, or adjust fan settings in OMEN Gaming Hub.
- **Display Issues:** Verify cable connections for external monitors, update graphics drivers, or check display settings.
- **Boot Issues:** If the laptop fails to boot, try restarting. If issues persist, consult the HP support website for BIOS reflash procedures or contact support.

5.2 Contact Support

For further assistance, visit the official HP support website or contact their customer service. Have your model number (TPN-Q299) and serial number ready.

6. SPECIFICATIONS

Feature	Specification
Model Name	TPN-Q299
Processor	AMD Ryzen AI 9 365 (10 Cores, 20 Threads, up to 5.0GHz)
Graphics	NVIDIA GeForce RTX 5070 (8GB GDDR6)
RAM	64GB DDR5
Storage	2TB PCIe NVMe M.2 SSD
Display	17.3" FHD (1920 x 1080), 144 Hz, 7ms, IPS, Anti-glare, Low Blue Light
Operating System	Windows 11 Pro
Connectivity	Wi-Fi 6, Bluetooth
Ports	3x USB Type-A, 1x USB Type-C, 1x HDMI, 1x RJ-45, 1x Headphone/Microphone Combo
Keyboard	RGB Backlit, Numeric Keypad
Dimensions (LxWxH)	15.65 x 10.94 x 1.08 inches
Weight	13.14 pounds

7. WARRANTY AND SUPPORT

Your HP OMEN laptop comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official HP website for detailed warranty terms and conditions. For technical support, driver downloads, and service information, visit support.hp.com.