MSI THIN15122041

MSI Thin 15 Gaming Laptop User Manual

Model: THIN15122041

Brand: MSI

1. Overview

The MSI Thin 15 15.6” 144Hz FHD Gaming Laptop, model B13UCX-2041US, is designed for high-performance gaming and multitasking. It features an Intel Core i5-12450H processor, NVIDIA Geforce RTX 2050 graphics, 16GB DDR5 RAM, and a 512GB NVMe SSD. This laptop is equipped with Cooler Boost 5 technology to maintain optimal temperatures during intense usage and runs on Windows 11 Home.



Figure 1.1: Front view of the MSI Thin 15 Gaming Laptop, highlighting its 144Hz display.

2. Package Contents

Please verify that all items are present in your product package:

- MSI Thin 15 Gaming Laptop
- Power Adapter and Cable
- User Manual (this document)

3. Setup

3.1 Initial Power-On

1. Unpack the laptop and all accessories from the box.
2. Connect the power adapter to the laptop's DC-in port and then plug it into a power outlet.
3. Open the laptop lid and press the power button, typically located on the keyboard deck.
4. Follow the on-screen instructions to complete the Windows 11 Home setup process. This includes setting up your region, language, network connection, and user account.

3.2 Connecting Peripherals

The MSI Thin 15 offers various ports for connecting external devices:

- **USB 3.2 Gen1 Type-C/DP:** For high-speed data transfer and display output.
- **USB 3.2 Gen1 Type-A:** For connecting standard USB devices.
- **HDMI (4K @ 30Hz):** For connecting to external monitors or TVs.
- **RJ45:** For wired network connection.
- **DC-In:** For power adapter connection.
- **Audio Jacks:** For headphones and microphone.



Figure 3.1: Available ports on the MSI Thin 15 laptop for connecting external devices.

4. Operating Instructions

4.1 Display Settings

The 15.6-inch Full HD (1920x1080) display features a 144Hz refresh rate for smooth visuals, especially beneficial for gaming. To ensure the 144Hz refresh rate is active:

- Right-click on the desktop and select "Display settings".
- Scroll down and click "Advanced display settings".
- Under "Choose a refresh rate", select "144Hz".



Figure 4.1: The 15.6" 144Hz FHD display provides a lightning-fast and smooth visual experience.

4.2 Performance Optimization with Cooler Boost 5

The Cooler Boost 5 technology is designed to keep your laptop cool during demanding tasks like gaming. It automatically adjusts fan speeds to optimize cooling performance. For manual control or to monitor system performance, you can use the pre-installed MSI Center software.

4.3 Keyboard Backlight

The keyboard features a backlight for improved visibility in low-light conditions. You can typically adjust the brightness or toggle the backlight using function keys (e.g., Fn + F10 or F11, refer to your keyboard's specific layout for exact keys).



Figure 4.2: The NVIDIA GeForce RTX 2050 GPU ensures powerful graphics performance for gaming and creative tasks.

5. Key Features

- **Powered Up:** The 12th Gen. Intel Core i5 processor delivers maximum efficiency in gameplay, multi-task work, and productivity.
- **Simplistic Design:** Enjoy the latest generation of Windows 11 Home for your everyday needs. *MSI recommends Windows 11 Pro for business use.
- **Beyond Fast:** The NVIDIA GeForce RTX 2050 powered by the Ada architecture unleashes the full glory of ray tracing, which simulates how light behaves in the real world.
- **FHD Display:** The 15.6” 144Hz display delivers fast refresh rate for better immersive experience.
- **MSI Intelligent Technology:** MSI Laptops now accelerate work and play even faster and more efficiently than ever before, taking automatic tuning to a whole new level.



Figure 5.1: Core components of the MSI Thin 15, including Intel Core i5 CPU, NVIDIA GeForce RTX 2050 GPU, 16GB DDR4 Memory, and 512GB NVMe SSD.

6. Maintenance

6.1 Cleaning

Regular cleaning helps maintain your laptop's performance and longevity:

- Use a soft, lint-free cloth to clean the screen and exterior surfaces.
- For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner.
- Use compressed air to clear dust from keyboard keys and ventilation grilles.

6.2 Software Updates

Keep your operating system and drivers updated for optimal performance and security:

- **Windows Updates:** Go to Settings > Windows Update and check for updates regularly.

- **Driver Updates:** Use the MSI Center software or visit the official MSI website for the latest graphics card and other component drivers.

7. Troubleshooting

This section provides solutions to common issues you might encounter:

- **Laptop not powering on:** Ensure the power adapter is securely connected to both the laptop and a working power outlet. Try a different outlet if available.
- **Screen is blank:** Check if the laptop is powered on. Try connecting an external monitor via HDMI to see if there's a display output.
- **Overheating:** Ensure ventilation grilles are not blocked. Use the Cooler Boost function in MSI Center. Consider using a laptop cooling pad for extended heavy usage.
- **Slow performance:** Close unnecessary applications. Check for background processes. Ensure sufficient free space on the SSD. Run system diagnostics via MSI Center.
- **No Wi-Fi connection:** Check if Wi-Fi is enabled in Windows settings. Restart your router and the laptop. Update Wi-Fi drivers if necessary.

For further assistance, please visit the official MSI support website or contact their customer service.

8. Specifications

Feature	Specification
Brand	MSI
Model Name	Thin 15 B12UCX-2041US
Item Model Number	THIN15122041
Operating System	Windows 11 Home
Screen Size	15.6 Inches
Screen Resolution	1920 x 1080 pixels (FHD)
Max Screen Resolution	1920x1080
Processor	Intel Core i5-12450H (1.3 GHz apple_ci5)
RAM	16 GB DDR5 (3200 MHz Memory Speed)
Hard Drive	512 GB NVMe SSD (PCIE x 4 Interface)
Graphics Coprocessor	NVIDIA GeForce RTX 2050
Graphics Card Ram Size	4 GB
Wireless Type	Bluetooth, 802.11ax (Wi-Fi 6)
Number of USB 3.0 Ports	3
Item Weight	7.33 pounds
Product Dimensions	14.13 x 0.09 x 9.99 inches

Color	Black
Batteries	1 Lithium Polymer battery (included)

9. Warranty and Support

Your MSI Thin 15 Gaming Laptop comes with a standard manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the warranty card included in your product packaging or visit the official MSI support website.
For technical support, driver downloads, and frequently asked questions, please visit the official MSI support portal: www.msi.com/support

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