

Dell 5550

Dell Latitude 5550 15 Business AI Laptop User Manual

Model: 5550

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Dell Latitude 5550 15 Business AI Laptop. Designed for business professionals, this laptop combines powerful performance with advanced features to enhance productivity.

The Dell Latitude 5550 features an Intel Core Ultra 7 155U processor, 32GB DDR5 RAM, and a 1TB PCIe SSD, ensuring fast and efficient operation. It comes with a 15.6" FHD display, Wi-Fi 6, a backlit keyboard, and a fingerprint reader for enhanced security and usability. The integrated Intel Graphics and AI Accelerators with NPU for Intel AI Boost provide robust graphics capabilities and support for AI-driven tasks.



Figure 1.1: Dell Latitude 5550 Laptop with included wired mouse.

2. SETUP

2.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Ensure the following items are present:

- Dell Latitude 5550 Laptop
- Power Adapter
- Wired Mouse
- Documentation (this manual)

Inspect the laptop for any physical damage. If any damage is found, contact Dell support immediately.

2.2 Connecting Power

Connect the power adapter to the laptop's power input port and then plug the adapter into a wall outlet. The battery will begin charging automatically.

2.3 Initial Boot and Windows 11 Pro Setup

Press the power button located on the top-right of the keyboard to turn on the laptop. Follow the on-screen prompts

to complete the Windows 11 Professional setup process. This includes selecting your region, language, connecting to a Wi-Fi network, and creating a user account.



Figure 2.1: Side view of the Dell Latitude 5550 during initial setup.

2.4 Connecting Peripherals

The included wired mouse can be connected to any available USB port on the laptop. For other peripherals, refer to the "Ports & Slots" section for connection options.

3. OPERATING YOUR LAPTOP

3.1 Keyboard and Touchpad

The Dell Latitude 5550 features an English US backlit AI hotkey keyboard with a numeric keypad. The backlight can be adjusted using the function keys. The precision touchpad supports multi-touch gestures for navigation.



Figure 3.1: Top view of the keyboard and touchpad layout.

3.2 Display and Graphics

The laptop is equipped with a 15.6" FHD (1920x1080) IPS Anti-Glare display. It features Intel Graphics and AI Accelerators with an NPU for Intel AI Boost, providing enhanced performance for graphics-intensive applications and AI workloads.

3.3 Ports and Slots

Your Dell Latitude 5550 offers a variety of ports for connectivity:

- 2 x Thunderbolt 4 (40 Gbps) with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery
- 1 x USB 3.2 Gen1 with PowerShare
- 1 x HDMI 2.1 port
- 1 x Universal audio port
- 1 x USB 3.2 Gen 1
- 1 x RJ-45 Ethernet port
- 1 x microSD-card slot
- 1 x Wedge Shaped Lock Slot

Ports & Slots

1. MicroSD Card Slot
2. Universal Audio Port
3. USB-A 3.2 Gen1
4. USB-A 3.2 Gen1 with PowerShare
5. HDMI 2.1
6. RJ-45
7. Wedge Shaped Lock Slot
8. 2x Thunderbolt 4.0 USB-C with Power Delivery & DisplayPort

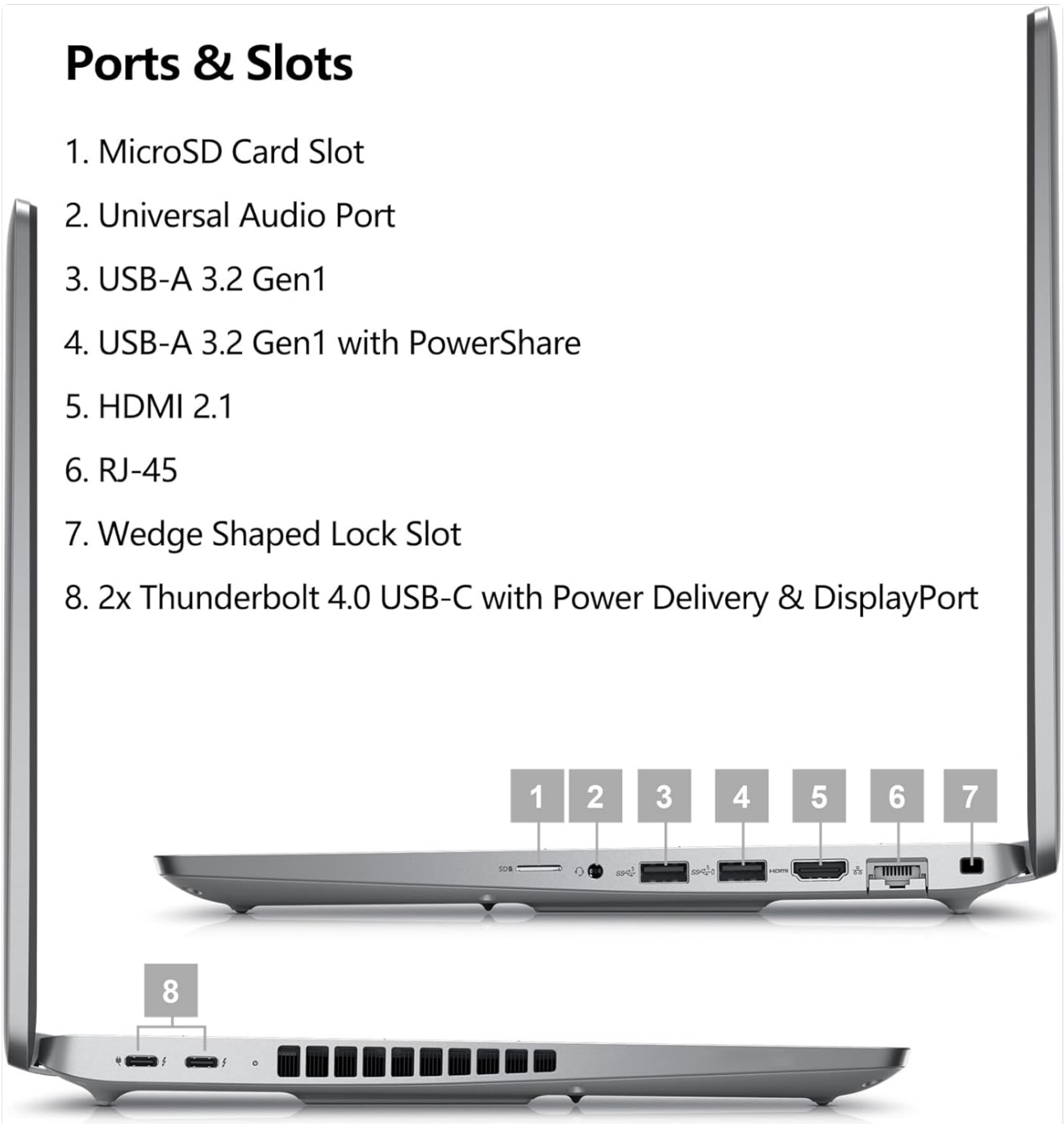


Figure 3.2: Overview of laptop ports and slots.

3.4 Security Features

The laptop includes a Fingerprint Reader and Control Vault 3+ for secure login and data protection. Configure your fingerprint in Windows Settings for quick and secure access.

3.5 Wireless Connectivity

The Dell Latitude 5550 supports Wi-Fi 6 (802.11ax) and Bluetooth 5.3 for high-speed wireless networking and peripheral connections.

4. MAINTENANCE

4.1 Cleaning Your Laptop

To maintain the appearance and functionality of your laptop:

- Use a soft, lint-free cloth dampened with water or a screen cleaner to clean the display.
- For the keyboard and chassis, use a soft cloth. Avoid harsh chemicals.
- Periodically use compressed air to clear dust from vents to ensure proper airflow.

4.2 Software Updates

Regularly update your Windows 11 Professional operating system and Dell drivers to ensure optimal performance, security, and compatibility. You can check for Windows updates via the Settings app and Dell drivers via the Dell SupportAssist application or Dell's official website.

4.3 Battery Care

To prolong battery life:

- Avoid extreme temperatures.
- Do not fully discharge the battery frequently.
- If storing the laptop for an extended period, charge the battery to about 50% before turning it off.

4.4 Storage Management

Periodically review and manage your 1TB PCIe NVMe SSD storage. Delete unnecessary files, uninstall unused applications, and consider cloud storage for large files to maintain system performance.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Dell Latitude 5550 laptop.

5.1 Power Issues

- **Laptop does not turn on:** Ensure the power adapter is securely connected to both the laptop and a working power outlet. Check if the power outlet is functional.
- **Battery not charging:** Verify the power adapter is correctly connected. Try a different power outlet. If the issue persists, the adapter or battery may need service.

5.2 Display Issues

- **No display on screen:** Ensure the laptop is powered on. Try connecting an external monitor to check if the issue is with the laptop's display or graphics output.
- **Screen flickering or distorted:** Update your graphics drivers. Adjust display resolution and refresh rate in Windows settings.

5.3 Connectivity Issues

- **Wi-Fi not connecting:** Check if Wi-Fi is enabled in Windows settings. Restart your router and laptop. Ensure correct Wi-Fi password.
- **Bluetooth device not pairing:** Ensure Bluetooth is enabled on both devices. Make sure the device is in pairing mode.

5.4 Performance Issues

- **Laptop is slow:** Close unnecessary applications. Check Task Manager for high CPU/RAM usage. Ensure sufficient free space on the SSD. Run a virus scan.
- **Applications crashing:** Ensure applications are up-to-date. Check for conflicting software.

For more complex issues or if the problem persists, refer to Dell's official support website or contact their customer service.

6. SPECIFICATIONS

Feature	Detail
Model	Dell Latitude 5550
Processor	Intel Core Ultra 7 155U (12C/14T, Max Turbo 4.8GHz, 12MB Cache)
Display	15.6" FHD (1920x1080), 60Hz, IPS, Non-Touch, Anti-Glare, 250 nit, 45% NTSC
Graphics	Intel Graphics and AI Accelerators featuring NPU for Intel AI Boost
RAM	32GB DDR5 SDRAM
Storage	1TB M.2 PCIe NVMe Solid State Drive
Wireless	Wi-Fi 6 (802.11ax), 2x2, Bluetooth 5.3
Ports	2x Thunderbolt 4, 2x USB 3.2 Gen1 (1 with PowerShare), 1x HDMI 2.1, 1x Universal Audio, 1x RJ-45, 1x microSD-card slot
Keyboard	English US backlit AI hotkey keyboard with numeric keypad
Security	Fingerprint Reader, Control Vault 3+
Operating System	Windows 11 Professional (64-bit)
Dimensions (LxWxH)	14.1 x 9.4 x 0.82 inches (358.1 x 238.8 x 20.8 mm)
Weight	Approximately 3.56 pounds (1.62 kg)
Included Accessories	Wired Mouse



Dimensions & Weight

1. Depth: 9.19 in. (233.30 mm)
 2. Width: 14.09 in. (357.80 mm)
 3. Height: 0.82 in. (20.80 mm)
- Starting weight: 3.58 lbs. (1.62 kg)

Figure 6.1: Laptop dimensions and weight illustration.

7. WARRANTY AND SUPPORT

7.1 Product Warranty

Your Dell Latitude 5550 laptop comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Dell support website for detailed warranty terms and conditions specific to your region.

7.2 Technical Support

For technical assistance, driver downloads, or further troubleshooting, please visit the official Dell Support website. You can find support resources, FAQs, and contact information for Dell customer service.

Dell Support Website: www.dell.com/support

When contacting support, please have your laptop's service tag or express service code ready. This information is

typically located on a sticker on the bottom of your laptop.