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› [Lenovo](#) /

› [Lenovo ThinkPad USB-C Dock Gen 2 \(40AS0090US\) Instruction Manual](#)

Lenovo 40AS0090US

Lenovo ThinkPad USB-C Dock Gen 2 (Model 40AS0090US) Instruction Manual

Enhance your workspace with seamless connectivity and expanded display options.

1. INTRODUCTION

The Lenovo ThinkPad USB-C Dock Gen 2 is a universal docking solution designed to expand the capabilities of your USB-C enabled laptop. It provides a single-cable connection for multiple peripherals, external displays, and network access, while also charging your notebook. This dock is engineered to streamline your workflow and maximize productivity by offering a wide array of ports and features.



Figure 1: Lenovo ThinkPad USB-C Dock Gen 2

2. WHAT'S INCLUDED

Verify that all items are present in the package:

- ThinkPad USB-C Dock Gen 2
- 90W AC Power adapter
- Power cord
- USB-C Cable



Figure 2: Docking station and included accessories

3. SETUP INSTRUCTIONS

1. **Connect the Power Adapter:** Plug the 90W AC power adapter into the dock's power input port and then into a wall outlet.
2. **Connect External Displays:** Connect your monitors to the dock using the available HDMI or DisplayPort connections. The dock supports up to three external monitors (max 1 x 4K @ 60Hz or 2 x 4K @ 30Hz, depending on system output).
3. **Connect Peripherals:** Attach your USB devices (keyboard, mouse, external drives) to the USB 3.1 and USB 2.0 ports on the dock.
4. **Connect to Network:** For a stable wired connection, plug an Ethernet cable into the Gigabit Ethernet port on the dock.
5. **Connect to Laptop:** Use the provided USB-C cable to connect the dock to your laptop's USB-C port. Ensure you connect to the correct USB-C port on your laptop, especially if it has multiple USB-C ports (e.g., avoid power-only ports if a Thunderbolt/data port is available).
6. **Power On:** Once all connections are secure, power on your laptop. The dock should be automatically recognized, and your external displays and peripherals will become active.



Figure 3: Laptop connected to the docking station with an external display

4. OPERATING THE DOCK

The ThinkPad USB-C Dock Gen 2 is designed for plug-and-play operation. Once connected, your laptop will automatically detect the dock and its connected devices. You can configure display settings through your operating system's display preferences.

Display Configuration

To configure your external displays:

- **Windows:** Right-click on the desktop, select 'Display settings', and arrange your monitors as desired. You can choose to extend, duplicate, or show only on one display.
- **macOS:** Go to 'System Preferences' > 'Displays' to adjust resolution, arrangement, and mirroring options.

Power Management

The dock supports advanced power management features for ThinkPad systems, including PXE Boot, System Wake-on-LAN from sleep, hibernate, and power-off modes. It also supports passing the ThinkPad MAC address through the dock for network management.

5. PORTS AND FEATURES OVERVIEW

The ThinkPad USB-C Dock Gen 2 offers a comprehensive set of ports to meet various connectivity needs:

- **USB 3.1 Ports:** 3x USB 3.1 ports for high-speed data transfer and connecting modern peripherals.
- **USB 2.0 Ports:** 2x USB 2.0 ports for connecting legacy devices like keyboards and mice.
- **Combo Audio Jack:** 1x 3.5mm combo audio jack for headphones or headsets.

- **Gigabit Ethernet:** 1x RJ45 port for a stable and fast wired network connection.
- **HDMI Port:** 1x HDMI port for connecting external displays.
- **DisplayPort:** 2x DisplayPort for connecting external displays.
- **USB-C Port (for laptop connection):** 1x USB-C port for connecting to your laptop, providing power, data, and video.

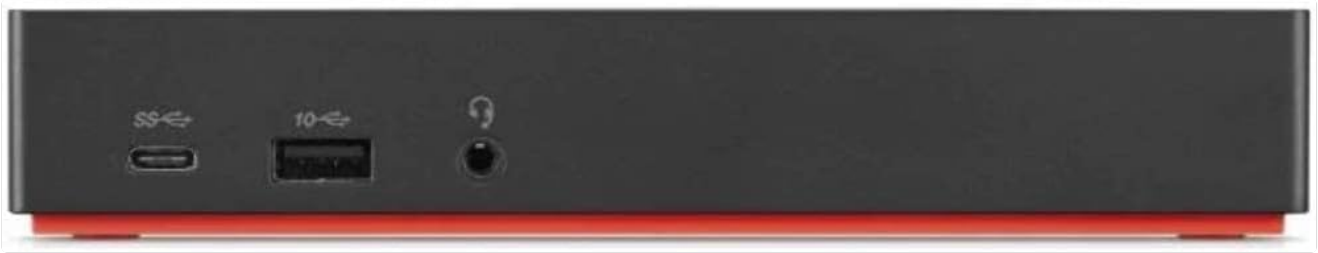


Figure 4: Front view of the docking station with USB-C, USB 3.1, and audio jack



Figure 5: Rear view of the docking station with multiple USB, Ethernet, HDMI, and DisplayPort connections

6. MAINTENANCE

To ensure optimal performance and longevity of your ThinkPad USB-C Dock Gen 2, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the dock. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the dock is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent damage.
- **Firmware Updates:** Periodically check the Lenovo support website for any available firmware updates for your dock. Updates can improve performance, stability, and compatibility.

7. TROUBLESHOOTING

If you encounter issues with your ThinkPad USB-C Dock Gen 2, try the following solutions:

- **No Display Output:**

- Ensure the dock's power adapter is securely connected and the dock is receiving power.
- Verify that the USB-C cable connecting the dock to your laptop is plugged into a compatible USB-C port that supports video output (not just power).
- Check all display cables (HDMI, DisplayPort) for secure connections.
- Try disconnecting and reconnecting the USB-C cable from your laptop.
- Update your laptop's graphics drivers and the dock's firmware.

- **USB Devices Not Recognized:**

- Ensure the USB devices are properly seated in the dock's USB ports.
- Try connecting the device directly to your laptop to confirm it's functional.
- Restart your laptop.

- **Network Connectivity Issues:**

- Check the Ethernet cable connection to both the dock and your router/modem.
- Verify network settings on your laptop.

- **Dock Feels Warm:**

- It is normal for the dock to feel warm during extended use, especially when charging a laptop and driving multiple displays. Ensure adequate ventilation around the device.

8. SPECIFICATIONS

Feature	Specification
Brand	Lenovo
Model Number	40AS0090US
Color	Black
Hardware Interface	DisplayPort, Ethernet, HDMI, USB, USB 2.0, USB Docking Station
Total USB Ports	5 (3x USB 3.1, 2x USB 2.0)
Total HDMI Ports	1
DisplayPort	2
Max External Monitors	3 (Max 1 x 4K @ 60Hz or 2 x 4K @ 30Hz, depending on system output)
Product Dimensions (L x W x H)	11.2" x 8.3" x 1.7"
Item Weight	16 ounces
Wattage	60W (for laptop charging)

9. COMPATIBLE DEVICES

The ThinkPad USB-C Dock Gen 2 is compatible with various Lenovo ThinkPad models. Please refer to your laptop's documentation or the Lenovo support website for the most up-to-date compatibility list. Known compatible models include:

- ThinkPad T490: 20N2, 20N3, 20Q9, 20QH
- ThinkPad T590: 20N4, 20N5
- ThinkPad X280: 20KE, 20KF
- ThinkPad T480: 20L5, 20L6
- ThinkPad X1 Carbon 6th Gen: 20KH, 20KG
- ThinkPad X270: 20HM, 20HN, 20K5, 20K6
- ThinkPad T480s: 20L7, 20L8
- ThinkPad X1 Carbon 7th Gen
- ThinkPad X1 Yoga 3rd Gen
- ThinkPad X1 Yoga 4th Gen
- ThinkPad X1 X270, X1 X280, X1 X390 Yoga, X1 X395
- ThinkPad X1 Tablet Generation 3
- Lenovo V340-17IWL, E490, E590, L390, P53s

10. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please visit the official Lenovo support website. Keep your purchase receipt and product serial number handy for any warranty claims or support inquiries.

Online Support: support.lenovo.com