

## ASUS PN54-BB7000ETL-A

# ASUS ExpertCenter PN54 Barebone Mini PC Instruction Manual

MODEL: PN54-BB7000ETL-A

Brand: ASUS

## 1. INTRODUCTION

The ASUS ExpertCenter PN54 is an ultra-compact Mini PC designed for next-generation computing needs, featuring AI-driven performance. It is powered by AMD Ryzen AI 300 Processors with XDNA 2 NPU, enabling efficient multitasking and AI-intensive tasks. Its sleek 0.6L design offers powerful, adaptable, and space-saving convenience.

### Key Features:

- **Unleash Pure Power:** Featuring AMD Ryzen AI 300 Series Processors with 6 ultra-fast cores, designed for powerful, efficient multitasking.
- **Next-Level AI:** Cutting-edge XDNA2 NPU with up to 50 TOPS—5x faster AI performance than before for responsive, dynamic computing.
- **Immersive 4K Visuals:** AMD Radeon 800M Graphics delivers breathtaking detail across up to four 4K displays.
- **Ultrafast and Versatile Connectivity:** Enjoy ultrafast connectivity with Wi-Fi 7 and Bluetooth 5.4 and benefit from a versatile array of connectivity options, including 6 USB ports, dual 2.5G LANs, and dual DisplayPort.
- **Sleek, Durable Design:** The Ultra-thin (0.6L), eco-conscious chassis runs reliably, 24/7, sets a new standard for thin and light computing performance, and features a toolless design that allows for effortless customization.



**AMD**  
**RYZEN AI**  
300 Series

Image: The ASUS ExpertCenter PN54 Mini PC in a multi-monitor setup, showcasing its compact size and capability for demanding tasks like 3D rendering and data analysis.

## 2. WHAT'S IN THE BOX

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Your ASUS ExpertCenter PN54 package includes the following items:

- ASUS ExpertCenter PN54-BB7000ETL-A Barebone Mini PC

## 3. SETUP

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### 3.1 Connecting Power

Connect the provided power adapter to the DC-In port on the rear of the Mini PC. Plug the power cable into a wall outlet. The system requires a 19V power input.

### 3.2 Connecting Displays

The ASUS ExpertCenter PN54 supports up to four 4K displays. Use the available HDMI 2.1 ports or the USB4 Type-C ports (which support DisplayPort Alt Mode) to connect your monitors.

### 3.3 Connecting Peripherals

Connect your keyboard, mouse, and other USB devices to the available USB ports. The front panel includes USB 3.2 Gen 2 Type-A and Type-C ports for convenient access. The rear panel offers additional USB 3.2 Gen 2 Type-A, USB 2.0 Type-A, and USB4 Type-C ports.

# Extensive Connectivity

## Front Side

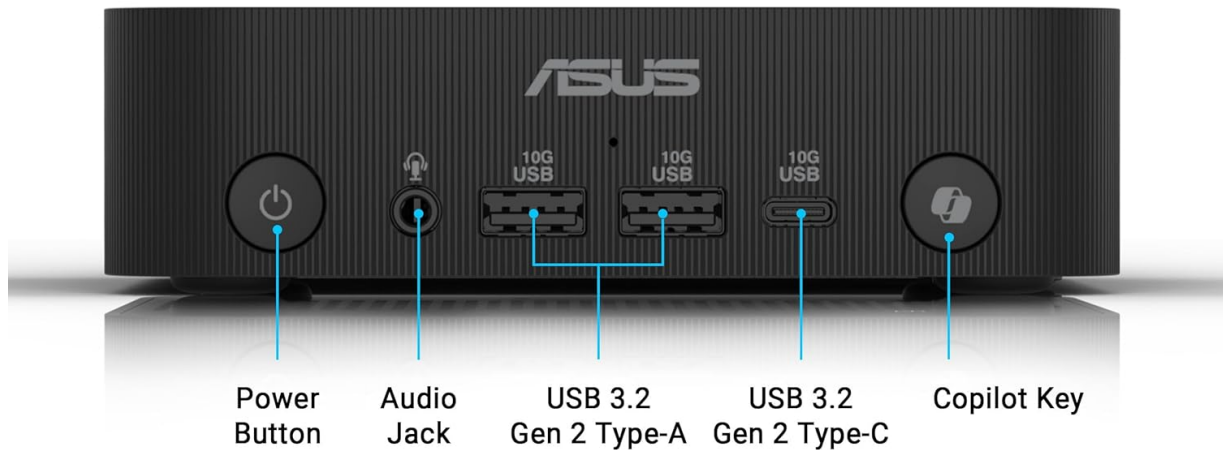


Image: Front view of the ASUS ExpertCenter PN54 Mini PC, highlighting the Power Button, Audio Jack, USB 3.2 Gen 2 Type-A ports, USB 3.2 Gen 2 Type-C port, and Copilot Key.

# Extensive Connectivity

## Back Side

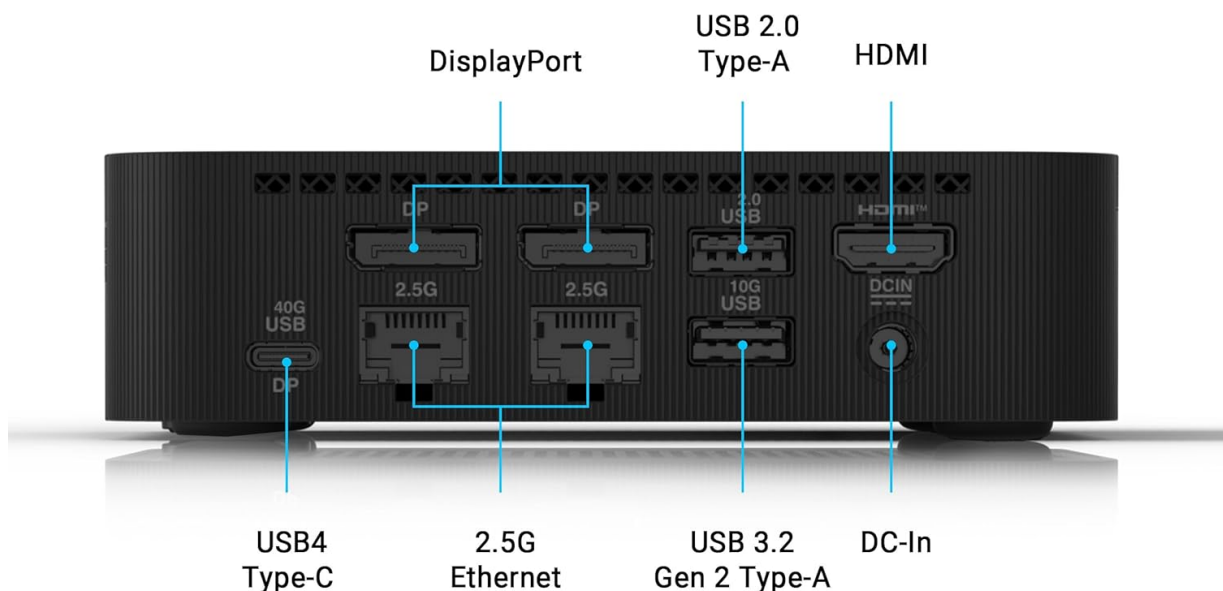


Image: Rear view of the ASUS ExpertCenter PN54 Mini PC, highlighting the DC-In port, HDMI ports, 2.5G Ethernet ports, USB 3.2 Gen 2 Type-A port, USB 2.0 Type-A port, and USB4 Type-C ports.

## 4. OPERATING

### 4.1 Powering On/Off

Press the power button located on the front panel to turn the Mini PC on or off. For safe shutdown, always use the operating system's shutdown function.

## 4.2 Operating System

The ASUS ExpertCenter PN54 comes pre-installed with Windows 11 Pro or Windows 11 Home, depending on the configuration. Follow the on-screen instructions for initial setup.

## 4.3 Wireless Connectivity

The Mini PC supports Wi-Fi 7 and Bluetooth 5.4. To connect to a wireless network or pair Bluetooth devices, use the respective settings within the Windows operating system.

# 5. MAINTENANCE

To ensure optimal performance and longevity of your ASUS ExpertCenter PN54, keep the ventilation holes clear of obstructions. Regularly clean the exterior with a soft, dry cloth. Avoid exposing the device to extreme temperatures or humidity.

# 6. TROUBLESHOOTING

## 6.1 No Power

Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Verify the power outlet is functional.

## 6.2 No Display

Check all display cable connections (HDMI, USB-C to DisplayPort) between the Mini PC and your monitor(s). Ensure your monitor is powered on and set to the correct input source.

## 6.3 Peripheral Issues

If a USB device is not recognized, try connecting it to a different USB port. Ensure device drivers are up to date in Windows Device Manager.

# 7. SPECIFICATIONS

Feature	Specification
Processor	AMD Ryzen AI 7 350 Processor (2 GHz)
RAM	DDR5 RAM (Dual Channel, up to 64GB)
Storage	1 TB SSD (NVMe), Dual Storage Design (supports up to 2 TB)
Graphics	AMD Radeon 800M Graphics
Wireless Connectivity	Wi-Fi 7, Bluetooth 5.4
Ethernet	Dual 2.5G LAN

Feature	Specification
USB Ports (Front)	USB 3.2 Gen 2 Type-A (x2), USB 3.2 Gen 2 Type-C (x1)
USB Ports (Rear)	USB4 Type-C (x1), USB 3.2 Gen 2 Type-A (x1), USB 2.0 Type-A (x1)
Video Output	HDMI 2.1 (x2), DisplayPort via USB4 Type-C (x2) - Supports up to four 4K displays
Audio	3.5mm Audio Jack
Operating System	Windows 11 Pro / Home
Dimensions (LxWxH)	1.34 x 5.12 x 5.12 inches
Weight	1.21 pounds
Special Features	Hardware TPM, VESA Mount Included, Toolless Chassis Access

## 8. WARRANTY & SUPPORT

The ASUS ExpertCenter PN54 comes with a 3-Year Protection Plan, offering extended coverage for your device. For technical support, troubleshooting, or warranty claims, please refer to the official ASUS support channels or visit their website for detailed information.