

ASUS ExpertCenter PN54-S1

Powerful and Efficient With Unmatched Connectivity



The ASUS ExpertCenter PN54-S1 delivers powerful performance in a compact, eco-friendly design. Powered by AMD Ryzen 200 series processors and integrated Radeon 700M graphics, it effortlessly handles multitasking, content creation, and edge applications, able to support four simultaneous 4K displays, providing an expansive, detailed visual experience. With 6 USB ports, Wi-Fi 7, and an optional second 2.5G LAN port, it ensures fast, versatile connectivity. Its sleek 0.6L design with toolless access offers powerful, adaptable, and space-saving convenience for business professionals.

Key Selling Points

- **Powerful Multitasking:** Featuring AMD Ryzen™ 200 Series Processors designed for powerful, efficient multitasking.
- **Smart AI Acceleration:** With up to 16 TOPS of built-in AI acceleration on the AMD Ryzen™ 7 260, enabling locally and efficiently run AI tasks such as enhanced visuals, voice recognition, and real-time translation.
- **Immersive 4K Visuals:** AMD Radeon™ 780M or 740M 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. Benefit from a versatile array of connectivity options, including 6 USB ports, dual 2.5G LANs, a fingerprint reader for Windows Hello, and built-in speakers and a microphone for voice command support.
- **Effortless Upgrades:** Tool-free design allows quick access and easy component upgrades without hassle.
- **Sleek, Durable Design:** Housed in a sleek 34mm chassis built for 24/7 operation, combining compact form with MIL-STD-810H durability and eco-conscious reliability.

Audience:

- Small and Medium Business
- Enterprises
- Retail Shops
- Creative Professionals

Target Usages:

- Content Creation
- Productivity
- Entertainment
- Edge Computing
- Digital Signage
- Kiosk
- POS System

ASUS ExpertCenter PN54-S1



Mini-PC Specifications

Marketing Name	ASUS ExpertCenter PN54-S1
Project Code	PN54-S1
ASUS Logo	Yes
Color	Black
OS Support	Windows® 11 Home/ Pro 24H2 Windows® 11 IoT Enterprise
CPU	AMD Ryzen 7 260 processor, cTDP 45W AMD Ryzen 5 220 processor, cTDP 28W AMD Ryzen 3 210 processor, cTDP 28W
Chipset	Integrated
Graphics	Integrated- AMD Radeon 780M/740M/740M Graphics
Memory	2 x SO-DIMM, DDR5-5600MHz memory (8G/16G/32G), up to 32G*2
Storage	2 x M.2 2280 PCIe Gen4x4, supports 256GB~2TB NVMe™ SSD
Wireless Network	Wi-Fi 7 MT7925, Bluetooth® 5.4 Wi-Fi 6E MT7922, Bluetooth® 5.4
LAN	RTL8125BG, 2.5G LAN, 10/100/1000/2500 Mbps
Audio	Realtek ALC 8233 1 x Internal Mono-Speaker with External Smart AMP 1 x Internal Digital Mics
TPM	fTPM 2.0 or onboard TPM module
Card Reader	None
Top I/O Ports	1 x Fingerprint Reader
Front I/O Ports	1 Power button 1 x USB 3.2 Gen2 Type-C (10Gbps) 2 x USB 3.2 Gen2 Type-A (10Gbps) 1 x Audio Jack (Line out/Mic in/Headphone out)
Back I/O Ports	1 x USB 4 Type-C (Supports DisplayPort 2.1 and PD-in 100W, max. speed 40Gbps) 1 x USB 3.2 Gen 2 Type-A (10Gbps) 1 x USB 2.0 Gen 2 Type-A (5Gbps) 1 x HDMI 2.1 (FRL) ¹ 2 x DisplayPort 1.4 (8.1Gbps) 1 x 2.5G RJ45 LAN 1 x 2.5G RJ45 LAN (Optional) 1 x DC-in
Side I/O Ports	1 x Kensington Lock
Power Supply	20Vdc/19Vdc, 6.0A/6.32A, 120W Power Adapter
Operating Temp	0 to 40C
Storage Temp	-40 to 60C
Dimensions (W x D x H)	130 x 130 x 34 mm (5.12 x 5.12 x 1.34 inch)
Weights	0.62 kg (1.37 lb)
Accessories	AC Adapter + Power Cord ² VESA Bracket and Screws Safety/Caution/Regulatory Insert Warranty Card

⁽¹⁾ Bluetooth version support may vary by OS

⁽²⁾ Supports HDMI CEC & HDCP 2.2; Supports 4K@60Hz as specified in HDMI 2.1

⁽³⁾ Power cord included is region specific, and some SKUs do not include the power cord

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Kit Specifications

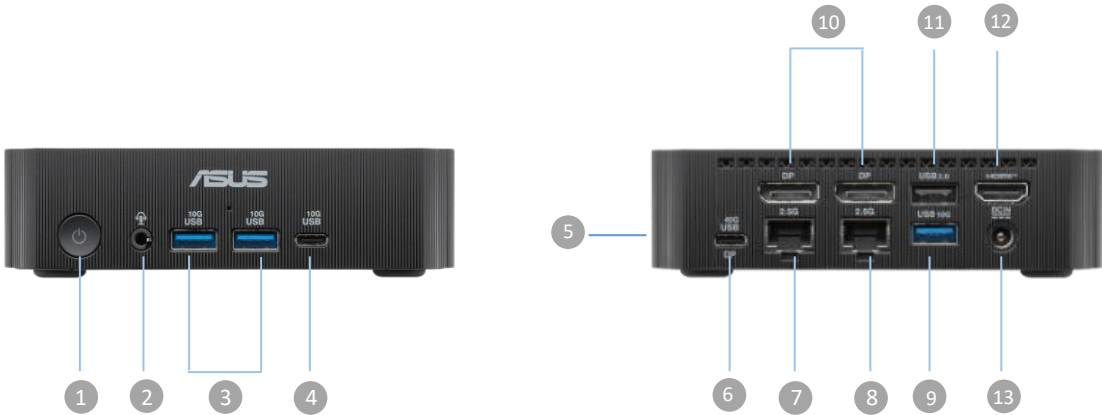
Marketing Name	ASUS ExpertCenter PN54-S1
Project Code	PN54-S1-B
ASUS	No
Color	Black
OS Support	Windows @11 Home/ Pro 24H2 Windows@ 11 IoT Enterprise
CPU	AMD Ryzen 7 260 processor, cTDP 45W AMD Ryzen 5 220 processor, cTDP 28W AMD Ryzen 3 210 processor, cTDP 28W
Chipset	Integrated
Graphics	Integrated- AMD Radeon 780M/740M/740M Graphics
Memory	2 x SO-DIMM, DDR5-5600MHz memory (8G/16G/32G), up to 32G*2 <i>No memory installed during shipment</i>
Storage	2 x M.2 2280 PCIe Gen4x4, supports 256GB-2TB NVMe™ SSD <i>No storage installed during shipment</i>
Wireless Network	Wi-Fi 7 MT7925, Bluetooth® 5.4 Wi-Fi 6E MT7922, Bluetooth® 5.4
LAN	RTL8125BG, 2.5G LAN, 10/100/1000/2500 Mbps
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Specifications, content, and product availability are all subject to change without notice and may differ from country to country.
Actual performance may vary depending on the application, usage, environment, and other factors. Full specifications are available at <http://www.asus.com>

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Model PN54-S1 Connections



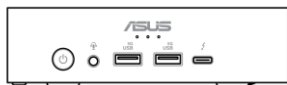
- | | | | | | |
|---|----------------------------------|----|----------------------------------|----|----------------------------|
| 1 | 1 x Power Button | 6 | 1 x USB 4 Type-C (40Gbps) | 11 | 1 x USB 2.0 Type-A (5Gbps) |
| 2 | 1 x Audio Jack | 7 | 1 x 2.5Gb Ethernet (Optional) | 12 | 1 x HDMI 2.1 |
| 3 | 2 x USB 3.2 Gen2 Type-A (10Gbps) | 8 | 1 x 2.5Gb Ethernet | 13 | 1 x DC in |
| 4 | 1 x USB 3.2 Gen2 Type-C (10Gbps) | 9 | 1 x USB 3.2 Gen2 Type-A (10Gbps) | 14 | 1 x Fingerprint Reader |
| 5 | 1 x Kensington Lock (Side Port) | 10 | 2 x DisplayPort 1.4 (8.1Gbps) | | |



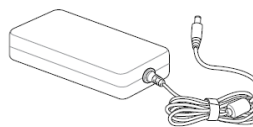
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What's in the box



PN54-S1



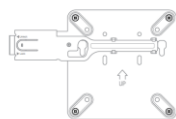
Power Adapter
120 W



Inserts



Power Cord*



VESA bracket and
Screws

NOTE:

- The most up-to-date and accurate product specifications are available on www.asus.com for download.
- Product and accessory images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
- *The bundled power adapter may vary depending on the model and the country (or region) of sale.
- Some bundled accessories may vary depending on the model. For details on these accessories, refer to their respective user manuals.
- If the device or its components fail or malfunction during normal and proper use within the warranty period, bring the warranty card to the ASUS Service Center for replacement of the defective components.