ASUS ExpertCenter PN55

Dynamic Performance Built for AI

ENERGY STAR | WEEE | RoHS compliant | 24/7

The ASUS ExpertCenter PN55 is a high-performance, ultra-compact solution designed for next-gen computing needs. Powered by AMD Ryzen AI 400 series processors, with XDNA2 NPU for AI acceleration and integrated Radeon 800M graphics, it effortlessly handles multitasking, AI-intensive tasks, and supports four simultaneous 4K displays, providing an expansive, detailed visual experience. With dual 2.5G LAN ports, 6 USB ports, and Wi-Fi 7, it ensures fast, versatile connectivity. Its sleek 0.6L design with toolless access offers powerful, adaptable, and space-saving convenience for AI-driven professionals.

Key Selling Points

- **Unleash Pure Power:** Featuring AMD Ryzen™ AI 400 Series Processors with 12 ultra-fast cores, designed for powerful, efficient multitasking. Includes support for new AMD PRO Technologies (select skus).

- **Next-Level AI:** Cutting-edge XDNA2 NPU with up to 55 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. 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.

- **Upgrade in a Snap :** Tool-free design keeps you ahead effortlessly.

- **Sleek, Durable Design:** The Ultra-thin (34mm), eco-conscious chassis runs reliably, 24/7, sets a new standard for thin and light computing performance.

Audience:

- Small and Medium Business
- Enterprises
- Retail Shops
- Smart Manufacturing
- Smart Banking
- Smart Healthcare
- Smart City

Target Usages:

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

ASUS ExpertCenter PN55

Mini-PC Specifications

Marketing Name	ASUS ExpertCenter PN55
Project Code	**PN55**
ASUS Logo	Yes
Color	Black
OS Support	Windows ®11 Home/ Pro 24H2 Windows® 11 IoT Enterprise
CPU	AMD Ryzen AI 9 HX 470 processor, cTDP 45W AMD Ryzen AI 9 465 processor, cTDP 45W AMD Ryzen AI 7 PRO 450 processor, cTDP 45W AMD Ryzen AI 7 450 processor, cTDP 45W AMD Ryzen AI 7 445 processor, cTDP 45W AMD Ryzen AI 5 PRO 440 processor, cTDP 45W AMD Ryzen AI 5 435 processor, cTDP 45W AMD Ryzen AI 5 430 processor, cTDP 45W AMD Ryzen AI 5 330 processor, cTDP 45W
Chipset	Integrated
Graphics	Integrated- AMD Radeon 890M (Ryzen AI 9 HX 470) AMD Radeon 880M (Ryzen AI 9 465) AMD Radeon 860M (Ryzen AI 7 PRO 450, Ryzen AI 7 450) AMD Radeon 840M Graphics (Ryzen AI 7 445, Ryzen AI 5 PRO 440, Ryzen AI 5 435, Ryzen AI 5 430) AMD Radeon 820M Graphics (Ryzen AI 5 330)
Memory	2 x SO-DIMM, DDR5-5600MHz memory (8G/16G/32G), up to 32G*2
Storage	1 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	2x 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 Mic
TPM	fTPM 2.0 or Optional Discrete TPM 2.0 Chip
Card Reader	None
Top I/O Ports	1 x Fingerprint Reader
Front I/O Ports	1 x Power button 1 x Copilot button 1 x USB 3.2 Gen2 Type-C (10Gps) 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 (8.1Gps) 2 x 2.5G RJ45 LAN 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)	130mm x 130mm x 34mm
Weights	530g
What's in the Box	ExpertCenter PN55 AC Adapter + Power Cord[2] VESA Bracket and Screws Safety/Caution/Regulatory Insert Warranty Card

[1] Supports HDMI CEC & HDCP 2.2 ; Supports 4K@60Hz as specified in HDMI 2.1
[2] Power cord included is region specific, and some SKUs do not include the power cord
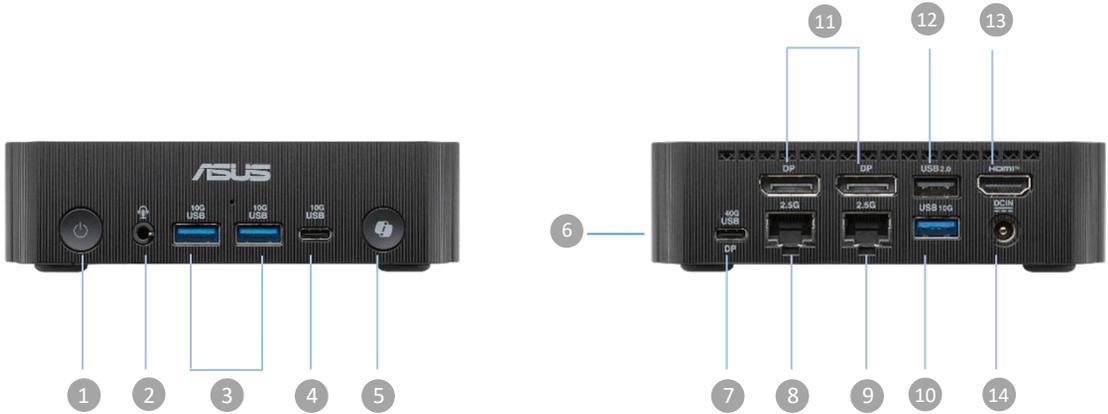
ASUS ExpertCenter PN55

Barebone Kit Specifications

Marketing Name	ASUS ExpertCenter PN55
Project Code	**PN55-B**
ASUS Logo	No
Color	Black
OS Support	Windows ®11 Home/ Pro Windows® 11 IoT Enterprise
CPU	AMD Ryzen AI 9 HX 470 processor, cTDP 45W AMD Ryzen AI 9 465 processor, cTDP 45W AMD Ryzen AI 7 PRO 450 processor, cTDP 45W AMD Ryzen AI 7 450 processor, cTDP 45W AMD Ryzen AI 7 445 processor, cTDP 45W AMD Ryzen AI 5 PRO 440 processor, cTDP 45W AMD Ryzen AI 5 435 processor, cTDP 45W AMD Ryzen AI 5 430 processor, cTDP 45W AMD Ryzen AI 5 330 processor, cTDP 45W
Chipset	Integrated
Graphics	Integrated- AMD Radeon 890M (Ryzen AI 9 HX 470) AMD Radeon 880M (Ryzen AI 9 465) AMD Radeon 860M (Ryzen AI 7 PRO 450, Ryzen AI 7 450) AMD Radeon 840M Graphics (Ryzen AI 7 445, Ryzen AI 5 PRO 440, Ryzen AI 5 435, Ryzen AI 5 430) AMD Radeon 820M Graphics (Ryzen AI 5 330)
Memory	2 x SO-DIMM, DDR5-5600MHz memory (8G/16G/32G/48G), up to 48G*2 *No memory installed during shipment*
Storage	2 x M.2 2280 PCIe Gen4x4, supports 256GB~2TB NVMe™ SSD *No storage installed during shipment*
Wireless Network	Wi-Fi 7 MT7925, Bluetooth® 5.4 Wi-Fi 6E MT7922, Bluetooth® 5.4
LAN	2x 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 Mic
TPM	fTPM 2.0 or Optional Discrete TPM 2.0 Chip
Card Reader	None
Top I/O Ports	1 x Fingerprint Reader
Front I/O Ports	1 x Power button 1 x Copilot button 1 x USB 3.2 Gen2 Type-C (10Gps) 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 (8.1Gps) 2 x 2.5G RJ45 LAN 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)	130mm x 130mm x 34mm
Weights	530g
What's in the Box	ExpertCenter PN55 AC Adapter + Power Cord[2] VESA Bracket and Screws Safety/Caution/Regulatory Insert Warranty Card

[1] Supports HDMI CEC & HDCP 2.2 ; Supports 4K@60Hz as specified in HDMI 2.1
[2] Power cord included is region specific, and some SKUs do not include the power cord

ASUS ExpertCenter PN55

Model PN55 Connections

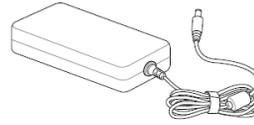|				
1	1 x Power Button	6	1 x Kensington Lock (Side Port)	11	2 x DisplayPort 1.4 (8.1Gbps)
2	1 x Audio Jack	7	1 x USB 4 Type-C (40Gbps)	12	1 x USB 2.0 Type-A (5Gbps)
3	2 x USB 3.2 Gen2 Type-A (10Gbps)	8	1 x 2.5Gb Ethernet	13	1 x HDMI 2.1
4	1 x USB 3.2 Gen2 Type-C (10Gbps)	9	1 x 2.5Gb Ethernet	14	1 x DC in
5	1 x Copilot Button	10	1 x USB 3.2 Gen2 Type-A (10Gbps)	15	1 x Fingerprint Reader

ASUS ExpertCenter PN55

What's in the box
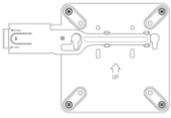
PN55

Power Adapter
120 W

Inserts

Power Cord*

VESA bracket and
Screws

M3*3L x 2

M4*7L x 4

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.