

Accelerating Business with ASUS NUC

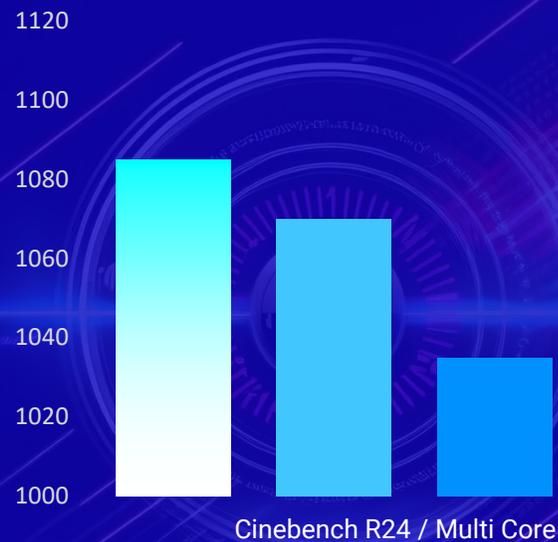
ASUS
NUC



Why Asus NUC: Built on Intel NUC Excellence

Not all "NUCs" are created equal. ASUS NUC is built on the foundations of Intel NUC

BEST IN CLASS PERFORMANCE



HIGHEST QUALITY / RELIABILITY

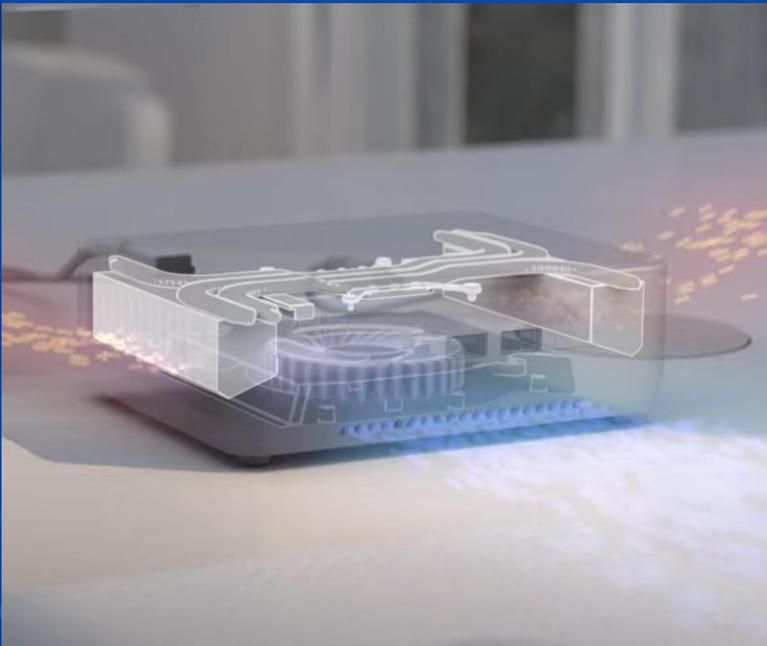


ENTERPRISE-LEVEL SECURITY BUILT IN

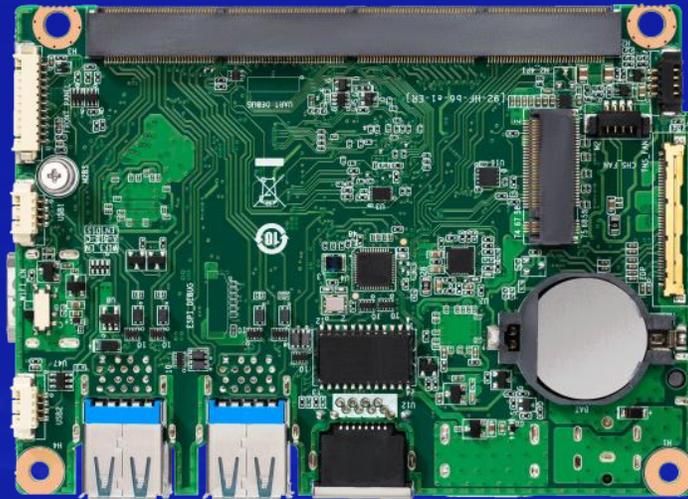


ASUS NUC: Defining Performance Leadership

SUPERIOR THERMAL MANAGEMENT



HIGH PERFORMANCE COMPONENTS



CPU_s FOR THE AI ERA



ASUS NUC Quality and Reliability

1000 hours of bake at **125c** vs
150-hour industry standard



Sub **1%** return rate



1450 hours Humidity
testing 70C / 85% Humidity



The same performance after
5 years as on day 1



Demonstrated MTBF



Local service and support in
84 countries

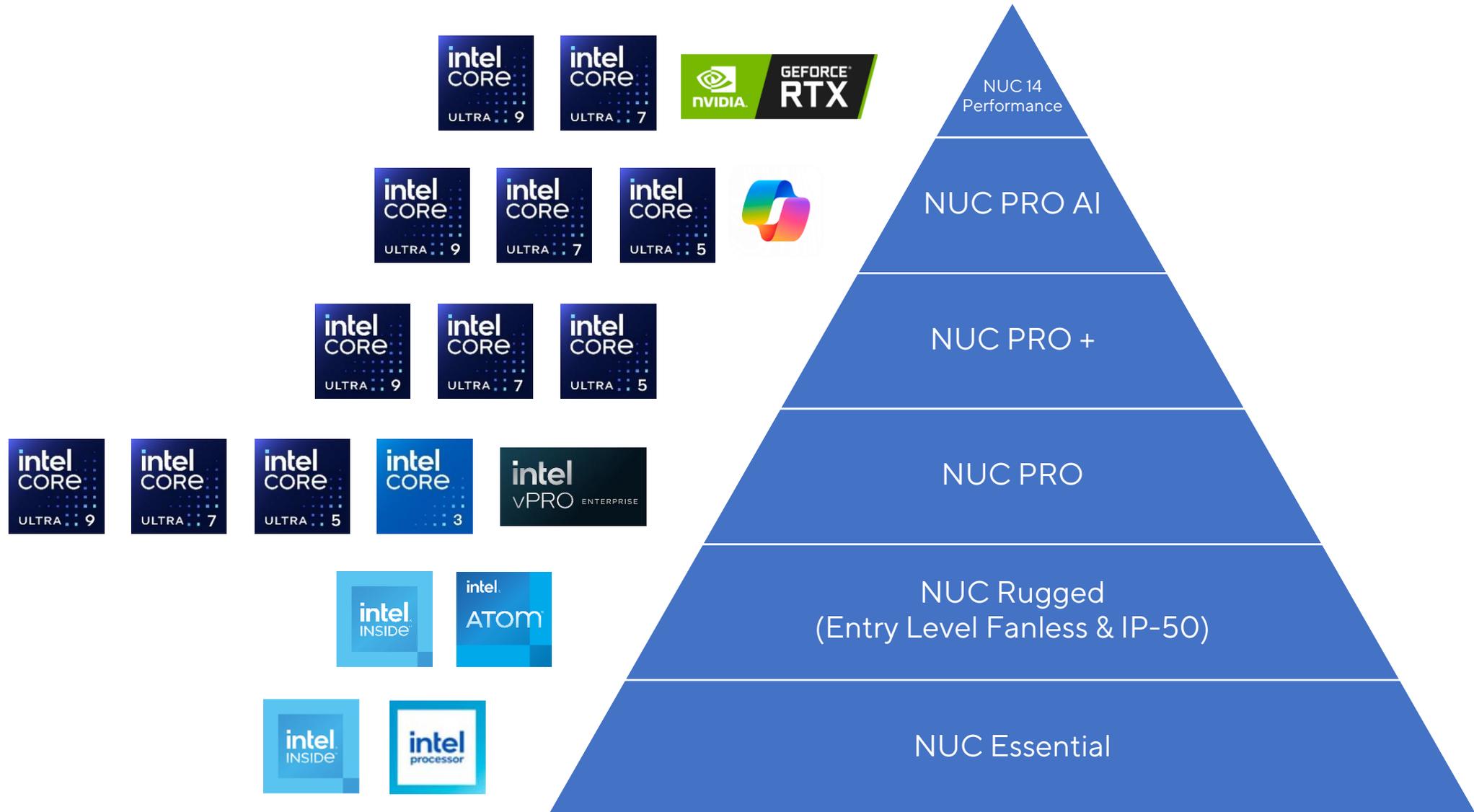




IN SEARCH OF INCREDIBLE

ASUS NUC Products

ASUS NUC Positioning



ASUS NUC: Compact Power for IoT/Embedded Compute

ASUS NUC 13 Rugged



ASUS NUC 14 Pro Slim



ASUS NUC 14 Pro Tall



ASUS NUC 14 Pro+



ASUS NUC 14 Performance



Serve these markets and more...

...with these primary attributes.



Retail

Digital Signage,
Point of Sale



Manufacturing

Visual Inspection, AI
Logistics



Healthcare

Medical and Life
Sciences



Hospitality

Kiosk, Interactive
Displays



Government

Automation,
Surveillance, Security



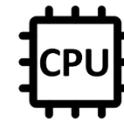
Transportation

Asset Tracking,
Traffic Routing, Maps



Compact

ASUS NUC 14 Pro/Pro+ are ready to handle even the most demanding workloads. Their compact, less-than-one-liter chassis take up minimal space on a desk or workstation. With fewer materials, less packaging, and less warehousing, they save space and energy, and promote sustainability.



Powerful

Configured and tuned for optimal performance. ASUS NUC 14 Pro/Pro+ come equipped with the latest Intel® Core™ Ultra processors*, Intel® Arc™ GPU*, and Intel® AI Boost*(Intel's newest NPU) to meet all compute needs.

**Applicable to SKUs equipped with Intel® Core™ Ultra 5/7/9 processors*



**Connected &
Customizable**

ASUS NUC 14 Pro/Pro+ provide comprehensive connectivity with multiple ports to support quad 4K displays and more. With a VESA mounting plate included and toolless chassis for easy upgrades, NUC 14 Pro/Pro+ are ideal for a range of use scenarios.



**Quality &
Reliability**

With a full suite of x-ray, dye and pull, and cross section examinations, in addition to electrical testing, ASUS NUC 14 Pro/Pro+ are qualified for 24X7 operation. They also come with a three-year limited warranty, demonstrating ASUS' commitment to their reliability.

NUC: Available Deployment Options



- Ready to use
- Complete Mini PCs with Windows*
- Configured and tuned for optimal performance
- 3-year warranty



- Ready to build configurable features
- Install your own memory, storage, and operating system (not included)
- Full range of Intel® processors
- 3-year warranty



- Ready to integrate
- Soldered-on processor
- 4x4-inch form factor
- Independent of chassis for embedded use and custom design

Why NUC 15 Pro?

Introducing the ASUS NUC 15 Pro—where intelligent design meets unparalleled performance. Its compact form factor is engineered for versatility, making it ideal for a variety of development scenarios, from AI model training to data visualization. Powered by the latest Gen Intel® Core™ Ultra processors, DDR5 6400 MHz memory, and Intel® Arc GPU, it delivers exceptional speed and efficiency. Experience lightning-fast connectivity and seamless collaboration with cutting-edge Wi-Fi 7. Elevate your workflow and adapt to any environment with the NUC 15 Pro—your compact powerhouse for innovation.

Intel® Core™ Ultra 7 265H

Ultra Series 2 - Ultra 7, Ultra 5, Ultra 3
18% Gen Over Gen CPU Improvement

DDR5

Up to 96 GB 6400 MHz

OS Flexibility

Windows 11 (Home, Pro, IoT)
RedHat Enterprise Linux, Ubuntu,
ChromeOS Flex, IGEL

Tool-less chassis Enhancement

Expandability

Dual SSD & LAN Ready

Manageability

vPro, ACC, NPSS

Up To 99
Platform TOPS
AI-Optimized

Intel® Wi-Fi 7

Download a 15GB file in just 25 seconds!

Bluetooth 5.4



Power Sync

Sync Screen & NUC Power

Quad Display

Dual HDMI 2.1 TMDS
Compatible (4K@60Hz)

ASUS NUC 15 Pro



Intel® Core™ Ultra 7 265H
Intel® Arc™ Graphics, Intel vPro® Technology
16 Processor Cores (6P+8E+2LE), 22 threads, 24MB Smart Cache, 40W TDP





Intel® Core™ Ultra 7 255H
Intel® Arc™ Graphics
16 Processor Cores (6P+8E+2LE), 22 threads, 24MB Smart Cache, 40W TDP



Intel® Core™ Ultra 5 235H
Intel® Arc™ Graphics, Intel vPro® Technology
14 Processor Cores (4P+8E+2LE), 18 threads, 18MB Smart Cache, 40W TDP





Intel® Core™ Ultra 5 225H
Intel® Arc™ Graphics
14 Processor Cores (4P+8E+2LE), 18 threads, 18MB Smart Cache, 40W TDP



Intel® Core™ 7 240H
Intel® Graphics
10 Processor Cores (6P+4E), 16 threads, 24MB Smart Cache, 40W TDP



Intel® Core™ 5 210H
Intel® Graphics
8 Processor Cores (4P+4E), 12 threads, 12MB Smart Cache, 40W TDP



Intel® Core™ 3 100U
Intel® Graphics
6 Processor Cores (2P+4E), 8 threads, 10MB Smart Cache, 25W TDP



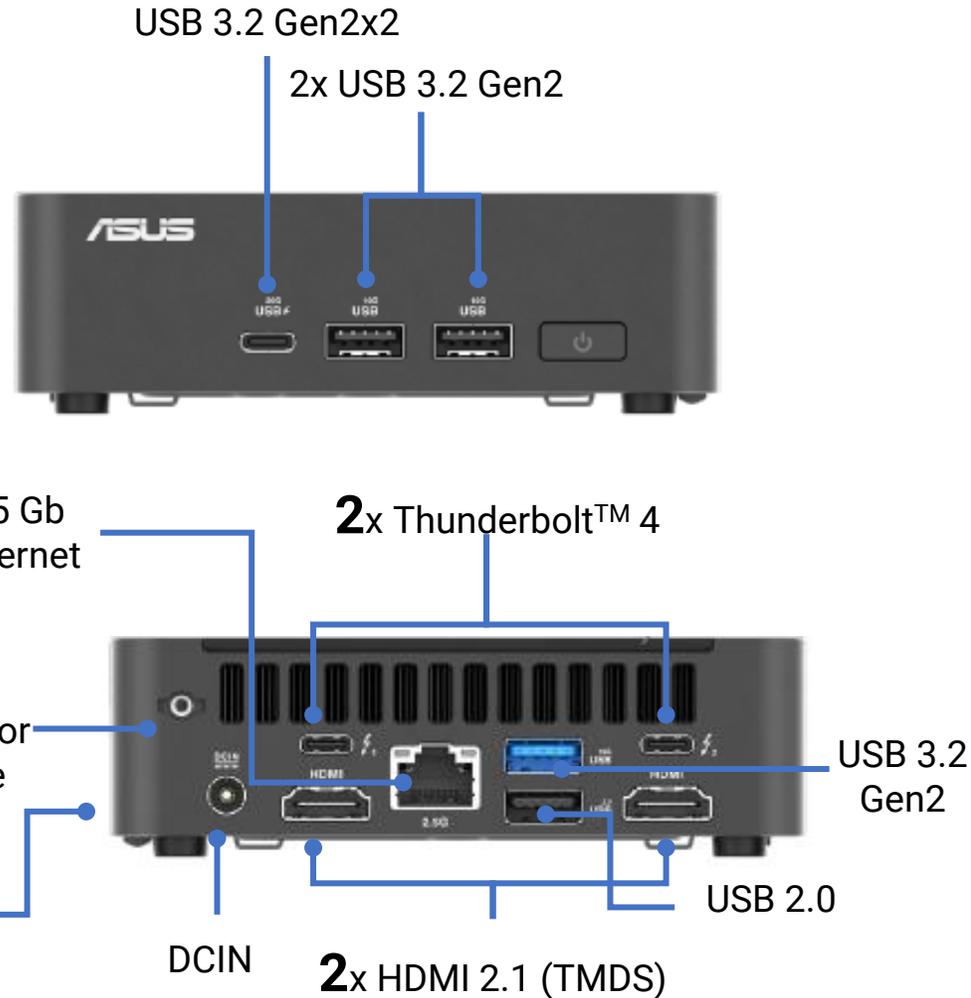
- **Up to Quad Extended Displays:**
 - Dual HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port
 - Dual Thunderbolt™ 4 ports (incl. DP 2.1 and USB4) via back panel type C connectors
- **M.2 22x80 key M slot for PCIe x4 Gen5 NVMe SSD**
- **M.2 22x42 key M slot for PCIe x4 Gen4 expansion**
- **Intel® i226 10/100/1000/2500 Mbps** RJ45 Ethernet (i226-LM on vPro SKUs; i226-V on non-vPro SKUs) port
- **Intel® Wi-Fi 7 BE201/BE202**, supporting 802.11be and Bluetooth 5.4 w/internal antennas, (Key-E M.2 Slot)
- Dual-channel up to **DDR5-6400 SODIMM slots, 1.1V, 96GB max.**
- Intel® Platform Trust Technology (fTPM 2.0)
- 1x front **USB 3.2 Gen2x2 type C** port (20gbps)
- 2x front and 1x rear **USB 3.2 Gen2** type A ports
- 1x rear type A and 2x internal USB 2.0 headers
- **All USB ports with individual USB power control**
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby1A)
- Internal Serial RS232 serial header
- **Qualified for 24x7 operation**
- **Delayed AC start; Auto CMOS reset; DC transient voltage suppression**
- **Display emulation (headless display, virtual display, persistent displays) via HDMI ports**
- **12 – 20V_{DC} ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVF**
- TDP settings for Core™ Ultra 5 / 7 CPUs down-configurable to 20W
- **Matte textured chassis**, replaceable lid, Kensington* lock with base security, Cable locking arm
 - Up to 40degC external ambient operating temperature tolerance
 - Power supply adapter (**120W**/19V_{DC} for Core i7, i5; **90W**/19V_{DC} for Core i3) with geo-specific AC cord (IEC C5)
 - VESA mounting plate included
 - Tall kits only:
 - Optional 2nd M.2 22x80 expansion
 - M.2 22x42 key M slot will be used to install this accessory
 - Optional 2nd Ethernet expansion
 - Optional 2nd Ethernet & RS232 Serial expansion
- Dimensions: Board: 104 x 102 mm; "K" chassis: 117 x 112 x 37 mm; "H" chassis: 117 x 112 x 54 mm
- Weight: "K" 357.4g; "H" 364.3g (base on all chassis, MB and thermal FAN + heatsink)
- Microsoft Windows 11 Pro
- Compatible with various Linux distros (Ubuntu / RedHat Enterprise Linux)
- Personalize and optimize your PC experience, diagnose hardware issues and contact ASUS customer support with **MyASUS software**
- **Three-Year product availability;** Three-Year limited warranty

Available SKUs	<input checked="" type="radio"/> Mini PC	<input checked="" type="radio"/> Kit	<input type="radio"/> Chassis	<input checked="" type="radio"/> Board
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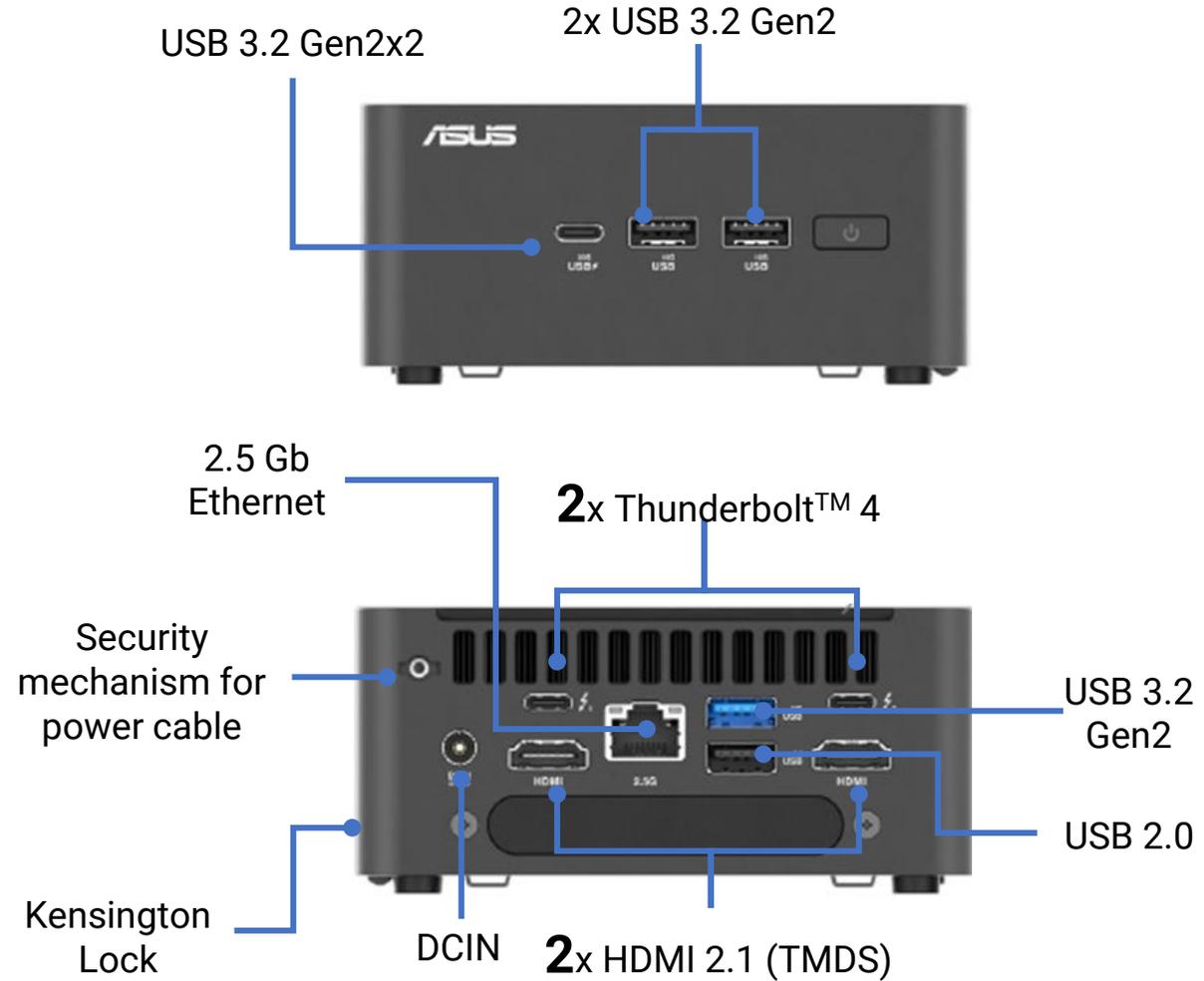
I/O Ports

All USB ports with individual USB power control

NUC 15 Pro (Slim)



NUC 15 Pro (Tall)



Optimize Cost / Performance to Target Workloads

AI PC

IT and OT PC use cases with need for industry leading CPU, Graphics and AI performance for today and tomorrow



- Next Gen Intel architecture providing next generation platform performance for AI workloads, such as AI assisted video editing, AI assisted graphics design, AI model learning in addition to traditional productivity workloads
 - P-Core – Lion Cove
 - Up-to +14% Single Thread Performance over MeteorLake-H
 - Up-to +19% Multi Thread Performance over MeteorLake-H
 - Graphics
 - LPG+ Architecture → Up-to 4x AI TOPS
 - XMX systolic arrays → Up-to 77 AI TOPS
 - Up-to 99 Total Platform TOPS for increasing AI workloads

- Intel® Core™ Ultra 7 265H (vPro)
- Intel® Core™ Ultra 7 255H
- Intel® Core™ Ultra 5 235H (vPro)
- Intel® Core™ Ultra 5 225H

Mainstream PC

IT and OT traditional PC use cases providing best in class price / performance ratio



- Proven Intel architecture providing performance targeting general computing, business applications, education and other traditional PC workloads

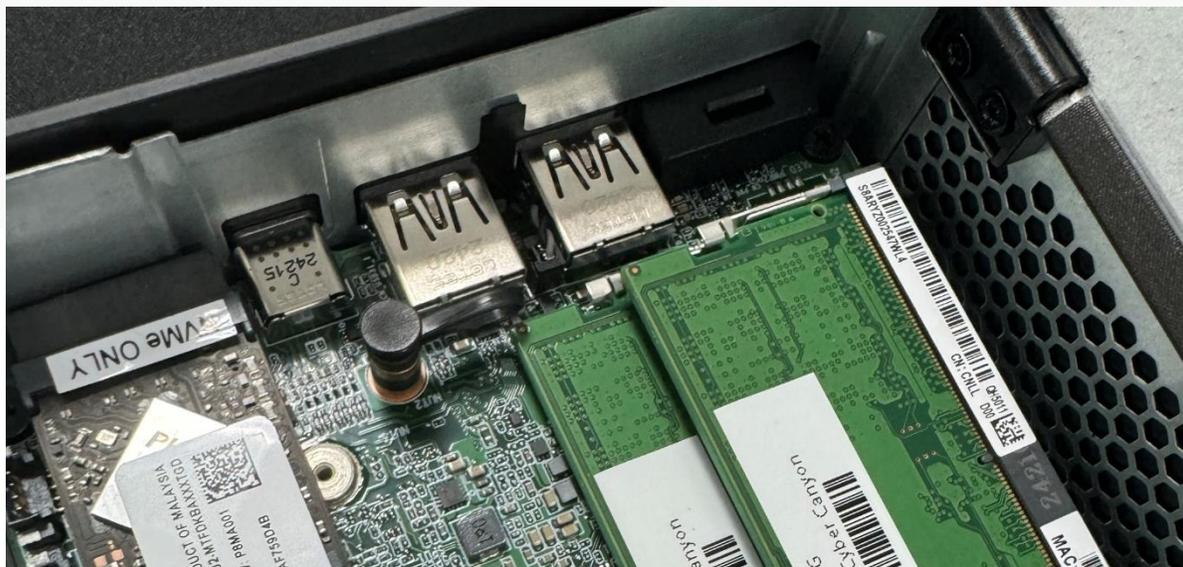
- Intel® Core™ 7 240H
- Intel® Core™ 5 210H
- Intel® Core™ 3 100U

Expanded Versatility

The NUC 15 Pro product team has carefully listened to customer feedback, and we've added Dual SSD and Dual LAN expansion options to better meet all your needs.

NUC 15 Pro - Internal Headers

- Add PCIe FPC Header & RS232 Serial header for additional integration flexibility for L6 & Board SKUs
 - Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
 - 1x internal power header
 - 2x internal USB 2.0 headers
 - PCIe FPC Header
 - 1x RS232 Serial header



NUC 15 Pro Tall Expansion Accessories

- [Product Code: NUCIOAES0CR](#)
 - 2nd M.2 222x80 SSD Expansion Accessory
- [Product Code: NUCIOALA0CR](#)
 - 2nd 2.5GbE LAN Expansion Accessory
- [Product Code: NUCIOALASCR](#)
 - 2nd 2.5GbE LAN Expansion w/ RS232 Serial Port Accessory

NUCIOALA0CR
2nd LAN Ethernet Port

NUCIOALASCR
2nd LAN Ethernet with Serial Port



ASUS NUC 14 Essential

Efficient Performance. Smart Savings.



Coming in Q1'25

Powerful Platform with
**Intel® Core™
N Processor**

High-Speed
Connectivity
**Wi-Fi 6E,
Bluetooth® 5.3, 2.5G
networking**

Triple display :
Boosting Office
Efficiency.

Easy access for upgrading
or installing memory,
storage, and **WLAN**
modules

Sleek **0.56L**
Chassis

1 x SO-DIMM,
up to **DDR5** 4800,
16GB*1

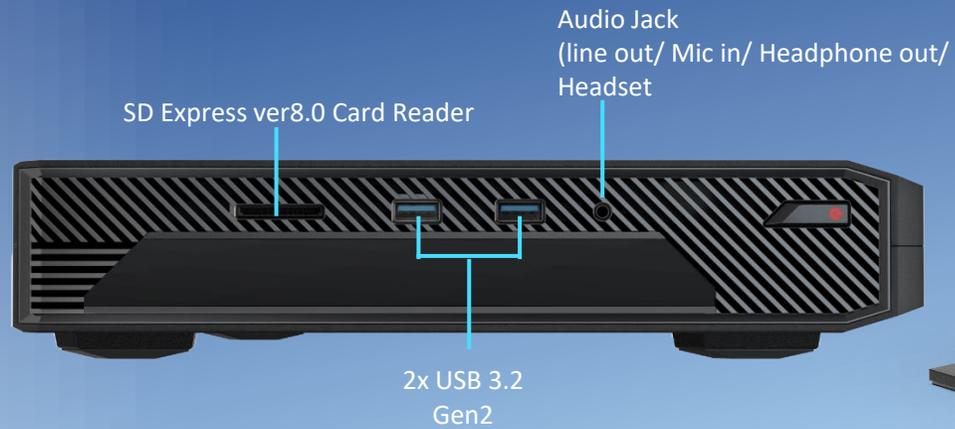
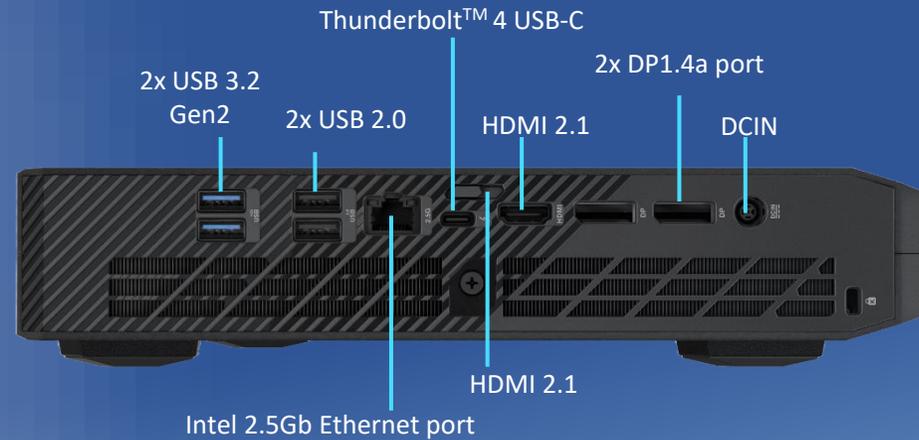


Successor to the NUC 11 Essential



ASUS NUC 14 Performance

ASUS NUC 14 Performance | NUCs | ASUS Global



Why **PN54**? Unleashing AI-Driven Performance in an Ultra-Compact Design.

The ASUS ExpertCenter PN54 is a high-performance, ultra-compact solution designed for next-gen computing needs. Powered by AMD Ryzen AI 300 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.

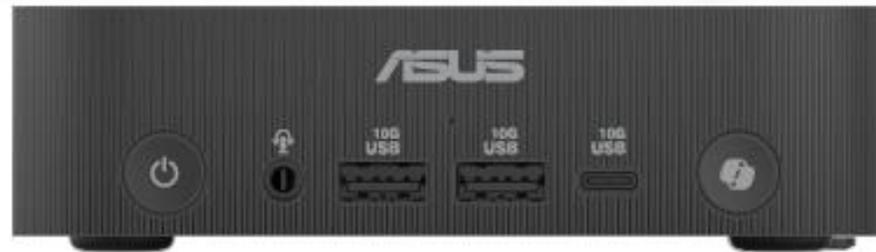
Powerful Platform with
**The latest
AMD XDNA™ 2 NPU**
Up to 50 TOPS

**AMD Ryzen™
AI 7** 350
AI 300 Series - AI 7 350, AI 5 340

**AMD Radeon™
800M Graphics**
33% more graphic cores*
*compared to last gen

**Windows 11 Pro &
Copilot+**
reducing task-switching time by
up to 30% compared to
Windows 10

6 USB Ports
including USB4 and USB3.2(Gen2)



easy-to-upgrade
toolless chassis

Wi-Fi 7
Download a 15GB file
in just 25 seconds!

Bluetooth 5.4
speeds of up to 2 Mbps, a 100% increase
over Bluetooth 5.3's 1 Mbps

Quad Display
Dual DisplayPort 1.4, HDMI and USB4
Compatible

DDR5
Up to 64 GB 5600 MHz

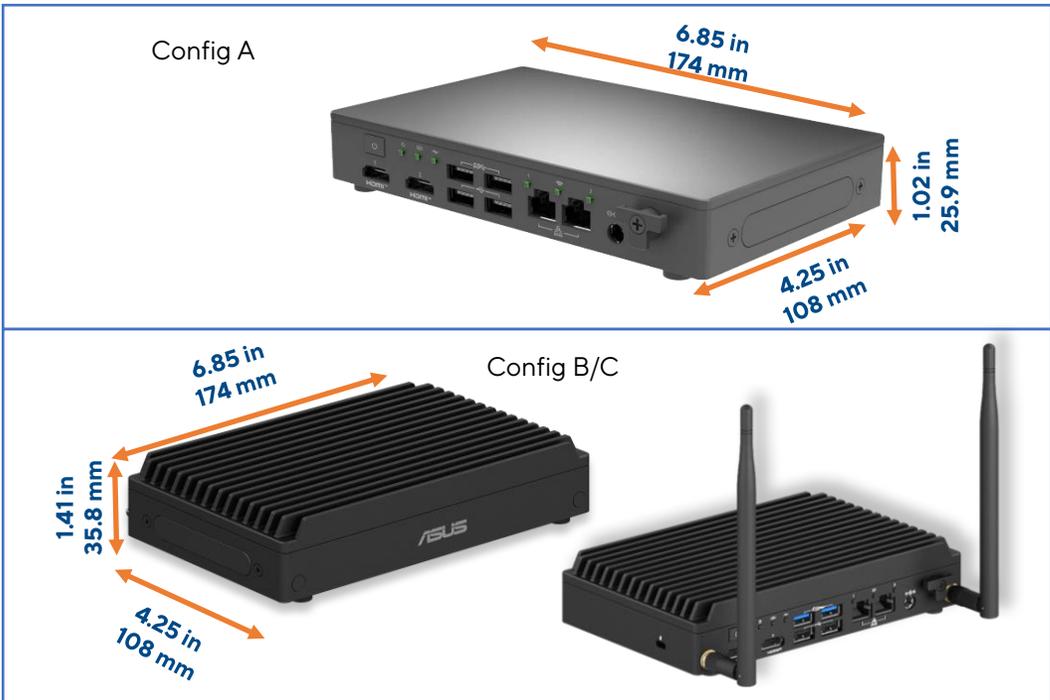
NUC 13 Rugged

5yr Availability*!

"Bravo Canyon"

Back to Roadmap

- 
Intel® Atom® x7425E (Config C)
Intel® UHD Graphics, with IPU
4 Processor Cores, 6MB L3 Cache, 12W TDP
 (Up to 3.4GHz Turbo)
- 
Intel Atom® x7211E (Config B)
Intel® UHD Graphics, with IPU
2 Processor Cores, 6MB L3 Cache, 6W TDP
 (Up to 3.2GHz Turbo)
- 
Intel® Processor N50 (Config A)
Intel® UHD Graphics, with IPU
2 Processor Cores, 6MB L3 Cache, 6W TDP
 (Up to 3.4GHz Turbo)



- IP50 / Fanless, dust-resistant chassis**, with cover plugs for unused ports
 - Five-Year product availability
 - 0~50°C external ambient operating temp. tolerance on select kit SKUs (0~40°C otherwise)
 - Qualified for **24x7 sustained operation** with up to **80% activity over five years**
- DDR5-4800 SODIMM** slot (16GB max), with optional "in-band" ECC support* (select SKUs only)
- Dual HDMI 2.1** TMDS Compatible (4K@60Hz), with **Pipelock & built-in CEC for both ports**
- Dual LAN** via **Intel® i226 2.5 Gb** Ethernet ports
- Intel® Wi-Fi 6E AX210** pre-installed on M.2 slot (most kit SKUs)
(external antennas on chassis w/ext. heatsink; internal antennas on chassis w/int. heatsink)
- 64GB eMMC** soldered-down, **M.2 2280 key M** slot for PCIe x2 NVMe SSD
- M.2 3042 key B** slot for SATA SSD as well as PCIe x1 and USB 3.2 Gen2 **expandability**
- SIM card slot & LTE modem ready, M.2 key B slot** (select SKUs only; no certs provided)
- 2x rear USB 3.2 Gen2, 2x rear USB 2.0 type A ports (**USB power control** per USB port pair)
- 2x internal USB 2.0 headers (**USB power control** per USB port pair)
- MIPI CSI** headers for connectivity to off-the-shelf third-party MIPI CSI camera modules
- Front-panel header (incl. Vcc5/1A, 5Vsby/2A, 3.3Vsby/1A)
- Intel® TCC/TSN** for **real-time computing** applications (select SKUs only)
- Delayed AC start; DC transient voltage suppression**
- 12~20V_{DC} ±5% DC input on rear jack and internal 2x2 power connector**
- Display emulation (headless display, 2nd virtual display, persistent displays)**
- Robustness status LEDs** for at-a-glance system health assessment
- Support for **Intel® NUC Pro Software Suite** (Windows & Linux) to monitor/restart unresponsive applications and provide failover display services for digital signage deployments**
- Chassis with **Kensington* lock** with base security and support for **DC cable strain relief**
- 20VDC 65W or 90W power supply adapter with geo-specific AC cords (IEC C5 connector)
- Versatile mounting options**: support for cable ties, direct-to-wall, 100mm VESA, keyholes, DIN rail
- Internal expansion bay** (compatible with NUC Pro's internal expansion modules)
- Chassis dimensions (w/internal heatsink): 174 x 108 x 25.9 mm [+3.4mm rubber feet] 714.6g
- Chassis dimensions (w/external heatsink): 174 x 108 x 35.8 mm [+3.4mm rubber feet] 1036.9g
- Board dimensions: 146 x 101.7 mm (**3.5" SBC**) 178g
- Support for Windows 11, Windows* 10 IOT Enterprise LTSC, Ubuntu 22.04 LTS, Red Hat Enterprise Linux 9
- Individual brown-box packaging
- Three-Year limited warranty

Available SKUs

Mini PC |
 Kit |
 Chassis |
 Board

ASUS IN SEARCH OF INCREDIBLE
*5 year availability details

CPU SKU	5 Year	3 Year
Intel® Atom® x7211E	YES	NO
Intel® Atom® x7425E	YES	YES
Intel® Processor N50	NO	YES

**NUC Pro Software Suite available Q2'24

OS, Software, Certifications & Ecology

This page is for managing and tracking the progress of green label applications. Please note that the label regulations are very strict; do not use the label publicly before the official acquisition date, as it may result in fines.

DO NOT RELEASE BADGE WITHOUT SPM CONFIRMATION



Microsoft Operating System

- Windows 11 Pro 64-bit
- Windows 11 Home 64-bit
- Windows Server 2025
- Windows 11 IoT Enterprise
- Microsoft Management Tools
 - Microsoft InTune
 - Autopilot (only L10 SKUs)

LINUX Operating System

- RedHat Enterprise 64-bit
- Ubuntu 24.04 LTS 64-bit

Industry Certifications

- AWS IOT Greengrass
- Azure Edge Secured Core
- **IGEL Ready**

ASUS Manageability

- MyASUS
- ASUS Control Center
- ASUS NPSS

ECOLOGY

- Energy Star 5.0
- RoHS
- WEEE Compliance
- **EPEAT Gold***
- **TCO***
- Carbon Footprint Report

***Applying**

Durability

- **MIL-STD-810H**



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Thank You!