ASUS NUC

Redefining Versatility and Innovation

Powerful, Compact and Versatile Solutions for Business and Professionals

2025 V1
Edition

Redefining Versatility and Innovation

Developed through a partnership between ASUS and Intel, the ASUS NUC product lines anchor on delivering uncompromised performance in the smallest form factors, backed by industry best quality and reliability. The versatility of the products shines through an array of configurations catering to diverse user needs, from smart manufacturing, to software developers, and to power users and gamers. The ASUS NUC aims to shape the next generation of PC experiences

ASUS NUC Solutions

Gaming

Build your own gaming Mini PC without compromising performance. Powered by Intel® Core™ processor (Series 2) and NVIDIA GeForce RTX™ graphics, ROG NUC pushes the boundaries of compact gaming experience.

Business

From graphics intensive workstations to collaboration hubs, NUC can put computing performance to work anywhere. The compact modular chassis and powerful components make ASUS NUCs your reliable business partner.

Edge Compute

Tested to surpass industry durability standards, ASUS NUC Mini PCs have been used primarily for digital signage, multi-display video walls, digital kiosks, and interactive displays. The versatility and reliability of NUC Mini PCs give you the solutions you need in a compact chassis.

ASUS NUC/Mini PC Product Line up

Windows

Prosumer	Business	Industry
 **NUC Pro Plus Series** Style meets performance for content creators and hybrid workers.	 **NUC Pro Series & ExpertCenter PN / PB Series** DT grade performance in a 1L form factor, featuring easy upgradability and comprehensive connectivity for SMBs and retail uses	 **NUC Rugged Series & Mini PC PL series** Reliable durability and high performance ensured with metal chassis
 **ROG NUC Series** The ultimate choice for gamers seeking uncompromised performance and flexibility in a compact form factor.		

ChromeOS

Business	Industry
 **Chromebox Series** Simple, speedy, and secure solutions with Chromebox series, enabling modern employee experience with abundant I/O and Android apps	 **ASUS Room Kit for Google Meet** The latest smart one-touch video-conferencing solution	 **Fanless Chromebox CF Series** Stable thermal performance with fanless design and legacy port support, applicable for diverse commercial uses

ASUS NUC:
BUILT ON NUC EXCELLENCE

Best in class Performance

ASUS NUCs, powered by Intel® Core™ Ultra processors, feature robust connectivity, simple upgradability and advanced thermal design to deliver exceptional performance.

Highest Quality & Reliability

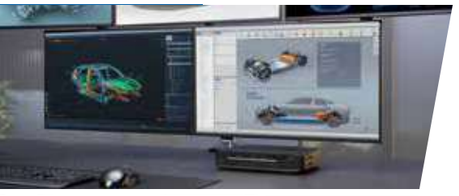
ASUS products undergo rigorous noise, vibration, drop, and thermal shock tests for extended periods of time to ensure reliability.

Compact But Powerful

ASUS NUCs are ready to handle even the most demanding workloads. Their compact, less-than-3-liter chassis are ideal for any field deployments, from retail to manufacturing.

Enterprise Level Security

ASUS NUCs are protected from malware attacks via UEFI Secure Boot, self-healing BIOS, physical lock options, Trusted Platform Module (TPM) technology , and advanced manageability features with ACC and the Intel® vPro platform.



ASUS goes above and beyond to ensure robust reliability for its NUCs and mini PCs, subjecting them to rigorous noise, vibration, drop, and thermal shock testing standards for extended periods of time.

- **1000 hours of bake testing,** far exceeding the industry standard of 150 hours.
- **1450 hours of humidity testing** at 70°C with 85% humidity.
- The **Demonstrated Mean Time Between Failure** results in real-world conditions, not just calculated estimates.

Sub	Same Performance	Local Service & Support
1%	5	84
Return Rate	Years as on Day 1	Countries

Compute Power for Every Business

NUC Mini PCs	NUC Kits	NUC Boards
		
• Ready to use • Complete Mini PCs with Windows* • Configured and tuned for • 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

BUSINESS	EDGE COMPUTE	CONSUMER
		
Collaboration / WFH / Office	Retail / Digital Signage / Kiosks	Gaming / Content Creation

Count on ASUS NUCs, Even After Purchase

- Comprehensive 24x7 support
- Three-year Warranty
- Comprehensive Service
- MyASUS app
- ASUS Premium Care
- Warranty Extension
- Accidental Damage Protection (ADP)
- Defective HDD Retention(DHR)

*Please contact local sales representatives for support and services

Quality Exceeding Industry Standards

ASUS NUCs and mini PCs undergo rigorous testing to ensure that they can withstand the rigors of transportation and daily wear. These meticulous testing processes includes 15 tests in different environmental conditions, guaranteeing outstanding durability and performance. This unwavering commitment to excellence ensures that ASUS NUCs provide customers with a powerful, long-lasting solution designed to perform seamlessly, day after day.

Stringent Testing

High Temperature Test
Two 7-day cycles exposure at 33℃~71℃

Low Temperature Test
A 7 day cycle exposure at -25^{0}C~-33^{0}C & a 3 day cycle exposure at -21^{0}C ~ -32^{0}C

Altitude Test
Temperature: -20^{0}C
Duration: 12 Hour &
Temperature: 5^{0}C and 40^{0}C
Duration: Two 12-hour

Humidity Test
Duration:10 Days (Cycles)
Temperature: 30°C and 60°C
Humidity: 95% RH, constant

Shock Test
Drop height: 100 mm

Vibration Test
Test time: 40 min/axis

Cross Section
Check solder joints meet IPC 610 criteria

Temperature Shock
Confirm that solder joints will be reliable over product lifetime, >60 cycles, -40^{0}C~ 100^{0}C

Drop Test
Drop from 60cm, 1 drop each at 6 faces, 3 edges, 2 corners

Port Test
1.5k cycle testing for connector durability, ensuring functionality and structural integrity.

Package Bump Test
Confirm that shipping package protects product against bump pulse. 4000 bumps.

Package Drop Test
Ensure product can be under protection during transportation

Noise & Audio Test
System noise levels do not exceed requirements. ISO 7779 standard test methods

Thermal Bake Test
Confirm that thermal solution performance will be acceptable with long term temp exposure

Package Vibration Test
Confirm that shipping package protects product against vibration

Eco-friendly Design

ASUS NUC/Mini PCs are recipients of some of the industry's highest environmental certifications, including ePeat Gold award and ENERGY STAR®. ASUS also exceeds legal compliance guidelines to protect customers, employees, and the environment.

Recognized for Exceptional Design and Build

ASUS INNOVATIONS ON **MINI PC SOFTWARE**

ASUS Control Center

ASUS Control Center (ACC) for Enterprise is an excellent centralized management tool for servers and client devices. It is tailored for efficient IT management, including both hardware- and software-inventory management, and the remote dispatch of both software and firmware updates. It also allows for simple remote device configurations and health checks, plus rapid deployment of latest security policies and patches. In short, ACC Enterprise is a one-stop portal for IT management, and has been embraced by industries and businesses globally to minimize administration and maximize uptime.

Design for Enterprise

- BIOS Flash Update
- Software Inventory
- Hardware Inventory
- Real-time System Monitor
- Software Dispatch Task
- Power and Security Control

SMB
Small-sized Enterprise
Medium-sized Business

Retail
Digital Signage Kiosk

Education
Traditional Classroom
Cloud Classroom

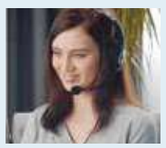
SOHO
Home office Remote work

MyASUS

MyASUS is the ASUS PC software portal that provides easy access to system maintenance and updates, performance optimization, and quick contact with ASUS aftersales customer service.

AI Noise Cancelation

- Two Way Noise Cancellation



System Diagnosis

- Hardware diagnostics
- System maintenance
- Software updates

Smart Fan Control

- Performance & Quiet modes

Other Functions

- WiFi SmartConnect
- TaskFirst
- Link to MyASUS

ASUS AI Mini PC

The ASUS NUC/Mini PCs series deliver top AI performance in a compact and modular design, making them ideal for not only prosumers but also edge computing as well as small or medium-sized businesses. These compact devices feature advanced AI capabilities, powerful components, and exceptional connectivity, ensuring maximum performance in a small footprint.

What Can an AI PC Do For Us?

Productivity Enhanced

ASUS mini PCs streamline work processes by automating routine tasks. Locally-run algorithms can seamlessly unlock creativity and boost productivity.

Energy Efficiency

NPUs can take on CPU/GPUs workload with AI accelerators, resulting in real-time inferencing with less resource consumption.

Advanced Security

As malware attacks become more sophisticated, dedicated NPUs can offload deep learning tasks and enable continuous security monitoring.

Collaborative AI Assistant

Platforms with dedicated NPUs are enhanced with local collaboration tools, providing a virtual partner to help maximize productivity.

Power your day, the AI way

Everyday AI

Up to 99 Platform TOPS

Everyday AI powers your essential PC apps, from office productivity softwares to digital signage systems.

Models:

- NUC 15 Pro
- NUC 15 Pro+
- NUC 14 Pro
- NUC 14 Pro+

Next Level AI

World's 1st Copilot+ Mini PC

Reaching triple-digit TOPS, next level AI enables advanced real-time AI processing. It also comes with Microsoft Copilot+.

Models:

- ExpertCenter PN54
- NUC 14 Pro AI
- NUC 14 Pro AI+

Advanced AI

NVIDIA® GeForce RTX™ Laptop GPU

Revolutionary graphics with up to RTX 50-series GPU, advanced AI enables accelerated image processing.

Models:

- ROG NUC (2025)
- ROG NUC
- NUC 14 Performance

Copilot+PC

Next-Level AI

World's 1st Copilot+ Mini PCs

ASUS NUC 14 Pro AI+

Unlock innovation and creativity with ASUS NUC 14 Pro AI+, featuring a customizable E-ink display for a personalized look and enhanced AI performance with up to 120 platform TOPS.

ASUS NUC 14 Pro AI

Create, achieve, and stay secure with NUC 14 Pro AI, powered by Intel® Core™ Ultra elivers AI capabilities in a <0.6L design and enhanced security with fingerprint recognition with Secure Boot

ASUS ExpertCenter PN54

Powered by AMD processors, this ultracompact 0.5-liter mini PC combines exceptional AI performance with additional features such as six USB ports, fingerprint recognition, and built-in voice command support

Equipped with Microsoft Copilot

Unlock Unparalleled NPU Prowess

Engineered to exceed the highest standards, these cutting-edge NUCs/Mini PC are equipped with a dedicated Copilot button and boasts double-digit NPU TOPS to run AI workloads. It also features at least a SSD and built-in speaker with AI noise cancellation for a seamless AI interaction.

40+
TOPS NPU

Copilot Key
Unlock AI capabilities with the press of a button. The Copilot key is located on the front panel.

Integrated Voice Command
Built-in speaker with smart amp and digital microphone with AI noise cancellation

Ultimate Protection Meets Unmatched Convenience

Enhanced Security

Protect your mini PCs from malware attacks with built-in TPM that encrypts data for enhanced security, along with secure boot and fingerprint recognition.

Ultrafast Connectivity

WiFi 7 Bluetooth® 5.4

Intel® Wi-Fi 7 offers unparalleled capacity so users can work on multiple devices simultaneously, download files without lag, and transfer data uninterrupted. Additionally, Bluetooth® 5.4 offers an extended connection range and multi-device connectivity.

Copilot+ Function

Experience accelerated productivity and creativity with Copilot+. Features like Cocreator, Recall, and Live Captions, transform your ideas into reality within seconds.

Next Level AI

ASUS ExpertCenter PN54

Compact Choice For AI-Driven Future

- AMD Ryzen AI 300 series processors and XDNA2 NPU for AI acceleration
- Dual 2.5G LAN ports and Wi-Fi 7 for fast, reliable connectivity
- Toolless access in a sleek 0.6L design
- Supports Quad 4K Display

AMD Ryzen AI 7 | AMD Ryzen AI 5 | AMD Radeon Graphics

Copilot+PC

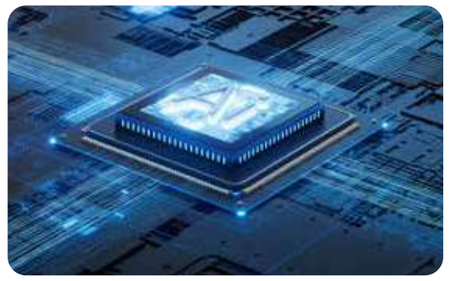
Operating System Support	Microsoft Windows 11 Pro/Home 24H2/IoT/Education
CPU	AMD Ryzen™ AI 7 350 AMD Ryzen™ AI 5 340
Chipset	Integrated
Graphics	Integrated AMD Radeon™ 860M(R7)/840M (R5) Graphics
Memory	2x SODIMMs, DDR5-5600MHz memory, supports up to 32GB*2
Storage	2x M.2 2280 PCIe4x4, supports 256GB~2TB NVMe SSD
Wireless Network	Wi-Fi 7 + Bluetooth 5.4 or Wi-Fi 6E+Bluetooth 5.4
LAN	1x 2.5Gb Ethernet +1x Optional 2.5Gb Ethernet
Front I/O Ports	1x USB 3.2Type-C (10G) 2x USB 3.2 Gen2 Type-A 1x Copilot Button 1x Audio Jack (Line out/Mic in/Headphone out/Headset) 1x Power Button
Top I/O Ports	1x Fingerprint Reader
Rear I/O Ports	1x USB 4 Type C (Supports DP2.1 and PD-in 100W support) 1x USB 3.2 Gen2 Type-A 1x USB 2.0 Type-A 1x HDMI 2.1 2x DisplayPort1.4 2x 2.5G RJ45 LAN(one is optional) 1x DC-in
Power Supply	120W
Dimension	130 x 130 x 34mm (without rubber feet)
Available SKUs	● Mini PC ● Kits ○ Boards

1. Only ASUS ExpertCenter PN54 pre-installed with Microsoft Windows® 11 64bit comes with Copilot+ PC Support
2. Free update to Copilot+ PC experiences available, timing varies by device and region, see aka.ms/copilotpluspcs for more information.

Powered by the latest Intel® Core™ Ultra 9 processors (Series 2), NUC 14 Pro AI/AI+ delivers up to 120 platform TOPS to accelerate AI workloads. They also feature an Intel® Arc™ 140V/130V GPU with Xe2 architecture — the first GPU to integrate LPDDR5x-8533 MT/s memory-on-chip, providing up to 1.5X the bandwidth of traditional DDR5.

+18%	up to **50%**	up to **2x**	up to **1.8x**
Fastest CPU Core (1)	Most Efficient x86 Processor (2)	Better GPU power efficiency (3)	Peak performance uplift (4)

Note: (1) vs. Intel® Core™ Ultra 7 155 H
(2) vs. Intel® Core™ Ultra 7 165 H
(3) vs. previous generation of Intel® Arc ™ GPU
(4) vs. Intel® Core™ Ultra 7 155 H on UL Procyon® AI NPU Int8



Enhanced AI Capabilities

ASUS NUC 14 Pro AI+ is the world's first desktop Copilot+ mini PC, delivering up to 48 NPU TOPS and tripling the AI performance of the previous generation. By processing locally on the device, the NPU ensures fast, efficient, and private AI experiences.

up to **48 NPU TOPS**	up to **3x** AI Performance*

Note*: vs. Intel® previous generation

Customized AI-Powered E-ink Display

NUC 14 Pro AI+

Unlock Your Creativity
Personalize your identification icon on the Multi-Color E-ink.

Eco-Friendly Design
E-ink display remains visible even when powered off

Power Efficiency
Consumes up to 99% less power than traditional LCD displays

Next Level AI

	NUC 14 Pro AI Mini PC	NUC 14 Pro AI+ Mini PC
Operating System Support	Windows® 11 Home/Pro 24H2 Windows® 11 IoT RedHat Rhel-server-9.3 Ubuntu 23.10 Fedora 1.6 OpenSUSE-Leap-15.5	Windows® 11 Home/Pro 24H2 Windows® 11 IoT RedHat Rhel-server-9.3 Ubuntu 23.10 Fedora 1.6 OpenSUSE-Leap-15.5
CPU	Intel® Core™ Ultra 9 288V/32G Memory Intel® Core™ Ultra 7 258V/32G Memory Intel® Core™ Ultra 7 256V/16G Memory Intel® Core™ Ultra 5 228V/32G Memory Intel® Core™ Ultra 5 226V/16G Memory	Intel® Core™ Ultra 9 288V/32G Memory Intel® Core™ Ultra 7 258V/32G Memory Intel® Core™ Ultra 7 256V/16G Memory Intel® Core™ Ultra 5 228V/32G Memory Intel® Core™ Ultra 5 226V/16G Memory
Chipset	Integrated	Integrated
Graphics	Integrated Intel® Arc™ 140V/130V Graphics	Intel® Arc™ 140V/130V Graphics
Memory	Embedded LPDDR5x- 8533 MT/S 16G/32G Memory on Processor	Embedded LPDDR5x-8533 MT/S 16G/32G Memory on Processor
Storage	1x M.2 2280 PCIe4x4, supports 256GB~4TB NVMe SSD	1x M.2 2280 PCIe4x4, supports 256GB~4TB NVMe SSD
Wireless Network	Wi-Fi 7(802.11be) 2*2 + Bluetooth® 5.4	Wi-Fi 7(802.11be) 2*2 + Bluetooth® 5.4
Speaker	1x Internal Momo-Speaker with External Smart Amp	1x Internal Momo-Speaker with External Smart Amp
LAN	10/100/1000/2500 Mbps, 2.5G Intel® LAN	10/100/1000/2500 Mbps, 2.5G Intel® LAN
TPM	fTPM 2.0 or TPM 2.0 Chip (Optional)	fTPM 2.0 or TPM 2.0 Chip (Optional)
Front I/O Ports	1x Power Button 1x Copilot Button 1x Thunderbolt™ 4 (Supports DisplayPort 2.1) 2x USB 3.2 Gen1 Type-A (5 Gbps) 1x Audio Jack (Line out/ Mic in/Headphone out)	1x Power Button 1x Copilot Button 1x Thunderbolt™ 4 (Supports DisplayPort 2.1) 2x USB 3.2 Gen1 Type-A (5 Gbps) 1x Audio Jack (Line out/ Mic in/Headphone out)
Top I/O Ports	1x Fingerprint Module	1x Fingerprint Module 1x Multi-color E-ink and LED Ring
Rear I/O Ports	1x Thunderbolt™ 4 (Supports DisplayPort 2.1) 2 x USB 3.2 Gen2 Type-A (10 Gbps) 1 x HDMI port 1x 2.5G RJ45 LAN 1x DC-in	1x Thunderbolt™ 4 (Supports DisplayPort 2.1) 2 x USB 3.2 Gen2 Type-A (10 Gbps) 1 x HDMI port 1x 2.5G RJ45 LAN 1x DC-in
Power Supply	120W Power Adapter	120W Power Adapter
Dimension	130 x 130 x 34mm (0.5476 L)	130 x 130 x 34mm (0.5476 L)
Available SKUs	● Mini PC ● Kits ○ Boards	● Mini PC ○ Kits ○ Boards

1. Only ASUS NUC 14 Pro AI/AI+ pre-installed with Microsoft Windows® 11 64bit comes with Copilot+ PC Support
2. Free update to Copilot+ PC experiences available, timing varies by device and region, see aka.ms/copilotpluspcs for more information.

Empowering AIRA AI-Tracking Surveillance Solutions in Compact ASUS NUC

About Aira

Aira, founded in Taiwan in 2020, specializes in AI-based facial biometrics and solutions across various vertical markets such as live sports, entertainment, manufacturing, and retail. Aira's unique advantage lies in efficiently running AI algorithms on low-power CPUs, handling complex tasks without the need for a GPU.

Challenge: Implementing Scalable AI-Tracking Solutions

Aira was looking for a solution that mitigates the high costs of GPU-intensive algorithms while offering a compact design that fits into confined spaces. Powerful processing and 24/7 reliability, even in harsh conditions, were also requirements for its deployments.

Solution: ASUS NUC Enables Smart Tracking at the Edge

- The Intel® Core™ Ultra processor that powers ASUS NUC is able to take over heavy image processing workloads from GPU, whilst still ensuring enhanced efficiency.
- Global availability of preconfigured hardware and support enables rapid deployment of Aira's solutions.
- Compact and customizable design makes NUCs ideal for field deployments.
- Compatibility with software like Intel OpenVINO™ toolkit for edge- based image processing enables real-time responses.

ASUS NUC 14 Pro

PERFORMANCE

GLOBAL SUPPORT & AVAILABILITY

SPACE SAVER

RELIABILITY

Streamlined Security and Enhanced Efficiency

Unlike many AI solutions still in the proof-of concept stage, Aira delivers AI solutions ready for immediate local implementation. With just one NUC, Aira solutions can support up to 20-50 cameras, making NUC an ideal choice for large-scale field deployments. Leveraging ASUS NUC's reliability and durability, Aira has introduced a suite of AI solutions tailored to various industries, including construction sites, factories, and retail spaces.

NUC-Powered AI Digital Signage Drives 3.5x Boost in Retail Sales

About meldCX

Since being founded in 2017, meldCX® has been dedicated to help retailers optimize customer experiences. It created Viana™ — short for vision analytics – trained using anonymized synthetic data that leverages advanced cloud computing and edge inference to deliver fast, accurate near real-time insights.

Challenge: Low Visibility Into Digital Signage Performance

meldCX® is looking for a powerful edge device that can deliver personalized ads, and can be easily deployed and integrated with existing infrastructure.

Solutions: ASUS Enable Vision Analytics at the Edge

- Scalable NUC portfolio ensures optimal balance of capabilities and cost in retail vision analytics systems powered by meldCX® Viana.
- NUC's flexible hardware configuration options and support for Chrome, Windows, Ubuntu Linux, and OpenVINO streamline integration of Viana retail analytics with customer infrastructure.
- Stocked and available worldwide, ASUS NUC products create a worry-free supply chain for any deployment.
- Global aftersales support ensures high uptime and helps drive digital signage revenue for customers.

ASUS NUC 13 Pro

SCALABLE

CUSTOMIZATION

READY AVAILABILITY

GLOBAL SUPPORT

End Customer Doubled ROI up to 3.5x

The partnership has provided hardware foundation needed for the company to scale and deploy its vision analytics in retail. For one retail customer, the company has completed deployments at over 250 screens across multiple shopping malls. Building on this success, meldCX® has expanded its business, actively deploying in North America, APJ, and EMEA. As they do so, the company remains confident in its ability to scale and grow into new global markets, thanks to its partnership with ASUS.

Quick-Service Restaurants AI Finds Its Voice with Efficient ASUS NUC

About Sodaclick

Sodaclick, a British company pioneering in conversational AI technology, is transforming the self-service ordering experience with natural, human-like engagements in drive-throughs, kiosks, and other order-taking applications. The company's AI platform uses natural, unscripted language to overcome shortcomings of script-based training models.

Challenge: Deploying Conversational AI-Powered Ordering

Sodaclick needed to deploy its conversational AI across diverse applications and in different languages, even during network disruptions. Additionally, all AI transcription data had to be encrypted for privacy.

Solutions: ASUS NUC Enables Automated Ordering

- ASUS NUC offers a cost-effective and reliable solution. Minimal downtimes reduces need for repairs, with high uptimes lowering total cost of ownership and providing customers with high ROI.
- Cloud-to-edge compatibility with Intel® technologies like OpenVINO™ allow for efficient workload portability.
- Powered by up to an Intel Core™ Ultra 7 processor, ASUS NUC offers exceptional performance and can support complex AI interactions.

RELIABILITY | EASE OF USE | PERFORMANCE | COST-EFFECTIVE

AI-Powered Ordering System Customers Actually Love

With ASUS NUC, Sodaclick now has a high-performance solution that can create customized experiences while boosting customer loyalty and reducing client costs. The partnership accelerated the development process of localizing its LLMs, allowing Sodaclick to capitalize on its first-to-market advantage. Now the company's clients can deploy conversational AI to handle customer interactions without worrying about Internet outages and other service disruptions.

ASUS NUC 12 Pro

Flexible NUCs Adapt to Federal Customer Requirements

About ClearCube

Since 1977, ClearCube Technology has been at the forefront of secure computing solutions. Today, ClearCube offers a comprehensive suite of solutions including blade PCs, zero clients, and customized mini PCs based on ASUS NUC platform, with a specialization in creating secure solutiosn for federal agencies.

Challenge: Overcoming Federal Clients Requirement

ClearCube's federal customers sought a solution that included removable storage to streamline security procedures, along with fiber-based connectivity for high-security networks. Additionally, ruggedization was critical as the systems could be subjected to rough handling and frequent transportation.

Solution: ASUS NUC Enables Secure Federal Computing

- The readily-customizable nature of ASUS NUC served as a perfect starting point for ClearCube's solutions.
- ASUS' commitment to the NUC form factor gave ClearCube the confidence to invest in custom housing.
- Metal housing is extremely durable and allows easy access to the storage drives.
- ASUS NUC includes an M.2 PCIe® that's able to support fiber connectivity.

ASUS NUC 13 Pro & Board

GLOBAL AVAILABILITY | STANDARDIZED FORM FACTOR | SPACE-SAVING | PERFORMANCE

Streamlined Security and Enhanced Efficiency

The ClearCube-ASUS partnership has significantly improved the computing experience for federal customers by addressing key pain points and delivering a tailored solution. Key outcomes include enhanced data security through removable storage, improved network security with native fiber connectivity, increased durability with custom metal housing, space optimization with a compact form factor, consistent performance from Intel processors, and a simplified supply chain based on the ASUS NUC platform.

ASUS MINI PCS EMPOWERING MEDICAL INNOVATION: A CASE STUDY WITH MEDEN-INMED

Compact and powerful ASUS Mini PCs have been successfully deployed across a wide range of commercial and industrial fields. One such notable case is Meden-Inmed, a Polish firm that's a major manufacturer and distributor of medical equipment.

About Meden-Inmed

When the medical industry in Poland was still in its infancy in 1989, Meden-Inmed was already ahead of the game and recognized the need for advanced software-based devices. They developed an image archiving system that could capture and store images on computers. Today, the company has shifted its focus to neurorehabilitation equipment for neurologically impaired patients, with their flagship product being the Axelero gait and balance training device

Overview:

When the medical industry in Poland was still in its infancy in 1989, Meden-Inmed was already ahead of the game and recognized the need for advanced software-based devices. They developed an image archiving system that could capture and store images on computers. Today, the company has shifted its focus to neurorehabilitation equipment for neurologically impaired patients, with their flagship product being the Axelero gait and balance training device.

The Opportunity: Connecting and Integrating Peripherals

The **Axelero Gait & Balance training device** requires seamless connectivity with multiple peripherals, including user screens and walking machines. To achieve this, a compact host device was essential, allowing for adjustments to the BIOS. Meden-Inmed's flexibility in modifying the mechanical design of the Mini PC ensured compatibility with their gait training devices, facilitating smooth integration during the design and development process.

The Solution: ASUS Mini PC as the small server

Meden-Inmed identified ASUS Mini PC as the ideal solution for their equipment. With its compact shape, high performance, stability, and expandability, ASUS Mini PC perfectly complemented Meden- Inmed's needs. Moreover, ASUS worked closely with Meden-Inmed to modify the BIOS, customizing it to meet the unique requirements of the company.

Driving Medical Progress: Collaborative Success

The collaboration between Meden-Inmed and ASUS Mini PCs has played a vital role in advancing medical progress and improving patient outcomes in the Polish market. The outstanding performance, reliability, and adaptability of ASUS Mini PCs have positioned them as the preferred choice for Meden-Inmed's innovative solutions. Through this successful partnership, Meden- Inmed has been able to leverage the exceptional capabilities of ASUS Mini PCs to enhance the recovery of patients across Poland. The seamless integration of ASUS Mini PCs into Meden-Inmed's medical equipment has contributed to improved efficiency, reliability, and overall quality of care. This collaborative success showcases the power of cutting-edge technology and strategic partnerships in driving medical advancements and ultimately benefiting patients.

SUCCESS CASE

DNEG

TRANSFORMING GLOBAL WORKFLOWS THROUGH ASUS MINI PC

At the forefront of innovation

Founded in 1998, DNEG is one of the world's leading visual effects and animation studios for feature film and television. Initially founded as a small team in London, DNEG has grown into a global powerhouse with multiple facilities across multiple continents. The company's success comes from its commitment to excellence and its ability to embrace cutting-edge technology, creative talent, and a deep understanding of storytelling. After 25 years of industry experience, DNEG has produced some of the world's most high profile titles including films such as Dune, Inception, Blade Runner 2049, Interstellar and series such as Stranger Things, Foundation and The Last of Us. DNEG's work has been honored with 7 Academy Awards, 7 BAFTA Awards and many Visual Effects Society Awards for best VFX in recent years.

THE CHALLENGE

Having offices around the world, DNEG requires a seamless integration of visual effects into the overall filmmaking process. With over 11,500 staff employed globally, DNEG needs a workflow that enables its artists to truly work from anywhere and anytime. Previously, DNEG had physical workstations that followed the artist around; an artist would sit in front of a desk and their workstation would sit underneath that desk. Will Lucas, the Head of Technical Operations at DNEG, comments on how this workflow was not fully empowering their artists' workflows. "While that obviously had its benefits, it was quite a clunky way of working because it meant that you didn't really have much flexibility in the way that artists worked on their physical location."

THE SOLUTION

Fully customizable mini PCs for artists across the glob

DNEG replaced its physical workstations with ultracompact ASUS Mini PC PN series. With these palm-sized yet powerful computers, artists had more flexibility in their workflows. Hence, an artist in one location could access a virtual machine via the Mini PC into another location. Thanks to the ASUS Mini PC, DNEG can now create any kind of hardware configuration based on their needs and requirements within their virtualized environment.

Powered by AMD Ryzen™ processor

The ASUS Mini PCs are powered by the AMD Ryzen™ 5000 series processor which provides a smooth and powerful multitasking experience. DNEG is also able to connect up to four 4K displays into their workflows. This has made its artists' experience easier and more enjoyable than before. As a result, DNEG was able to streamline their workflows even in more demanding workloads.

THE OUTCOME

ASUS Mini PCs enable DNEG to remain innovative and on the cutting edge of technology. As Will Lucas points out, DNEG needs to be able to look forward to the future and plan what products are needed to stay competitive. Knowing that both ASUS and AMD were working on this development was an integral part of DNEG's decision to proceed with the ASUS Mini PCs.

"Working with ASUS has been an absolute dream. Being able to approach someone very quickly and very easily on multiple different channels and have honest and open conversations about our needs has been absolutely vital for the way that we've used the ASUS Mini PCs at DNEG."

– Will Lucas, Head of Technical Operations

ASUS Mini PC

DNEG case video

For Business

Flexible, versatile, customizable

The perfect solution for every business need.
From office to conference rooms,
signage to IoT

Everyday AI

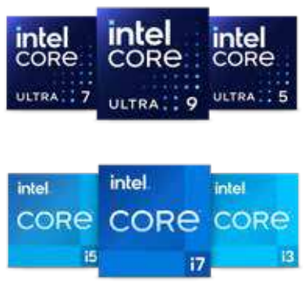
NUC 15 Pro

Best Compact Choice for AI Driven Future

- The Intel® Core™ Ultra processor (Series 2) with up to 99 Platform TOPS is optimized for a wide range of workloads.
- Superior connectivity includes Intel® Wi-Fi 7, Wi-Fi Proximity Sensing, and certified Bluetooth® for enhanced audio and seamless connections.
- Robust security features Intel® **vPro®** and fTPM 2.0

ASUS NUC/Mini PC For Business

NUC packs the power of the latest-generation, full-size desktop PCs into a form factor small enough to hold in your hand. They range from NUC boards for embedded applications to ready-to-run business mini PCs.



Full-size desktop PC performance. Tiny NUC

Choose the latest Gen Intel® Core™ processors with extensive I/Os—including USB 3.1 ports, HDMI, Thunderbolt™ 4 technology, Gigabit Ethernet—all packed into a range of flexible, customizable form factors.

Multidisplay 4K video and graphics

NUC can drive multiple 4K displays while processing multiple streams of incoming video via Thunderbolt™ 4 technology. Multiple dedicated graphics cores rip through 3D animation, CAD models, and video rendering. This makes NUC equally adept as high-performance workstations and digital signage PCs.

Built for commercial environments

NUC Pro and Rugged Mini PCs, kits, and boards are certified for 24/7 operation and offer additional features for commercial environments. These include persistent display emulation, variable input voltage, and HDMI CEC.

Intel **vPro®** platform*

The Intel **vPro®** platform delivers the performance, security, manageability, and stability businesses need to be productive and efficient. Look for Intel vPro platform-eligible NUC Mini PCs, kits, and boards.

	NUC 15 Pro Mini PC (Tall/Slim)	NUC 15 Pro Kit (Tall/Slim)
Operating System Support	Windows 11 64-bit Ubuntu 24.04 LTS 64-bit RedHat Enterprise Linux 64-bit	Windows 11 64-bit Ubuntu 24.04 LTS 64-bit RedHat Enterprise Linux 64-bit
CPU	Intel® Core™ Ultra 7 265H (**vPro**), Intel® Core™ Ultra 5 235H (**vPro**), Intel® Core™ Ultra 7 255H, Intel® Core™ Ultra 5 225H, Intel® Core™ 7 240H, Intel® Core™ 5 210H, Intel® Core™ 3 100U	Intel® Core™ Ultra 7 265H (**vPro**), Intel® Core™ Ultra 5 235H (**vPro**), Intel® Core™ Ultra 7 255H, Intel® Core™ Ultra 5 225H, Intel® Core™ 7 240H, Intel® Core™ 5 210H, Intel® Core™ 3 100U
Chipset	Integrated	Integrated
Graphics	Intel® Arc™ GPU (Core Ultra)[1] Intel® Graphics (Core3, Core 5, Core 7)	Intel® Arc™ GPU (Core Ultra)[1] Intel® Graphics (Core3, Core 5, Core 7)
Memory	2 x SO-DIMM, Up to DDR5-5600, 48GB*2 (Core 3, Core 5, Core 7)2 x CSO-DIMM, Up to DDR5-6400, 48GB*2 (Core Ultra)	2 x SO-DIMM, Up to DDR5-5600, 48GB*2 (Core 3, Core 5, Core 7)2 x CSO-DIMM, Up to DDR5-6400, 48GB*2 (Core Ultra)
Storage	1 x M.2 2280 PCIe Gen4x4, supports 128GB~2TB NVMe SSD 1 x M.2 2242 PCIe Gen4x4, supports 128GB~2TB NVMe SSD PCIe Gen 5 ready design	1 x M.2 2280 PCIe Gen4x4, supports 128GB~2TB NVMe SSD 1 x M.2 2242 PCIe Gen4x4, supports 128GB~2TB NVMe SSD *No storage installed at shipment PCIe Gen 5 ready design
Wireless Network	Intel® Wi-Fi 7 BE201 + Bluetooth 5.4 (Core Ultra) Intel® Wi-Fi 7 BE202 + Bluetooth 5.4 (Core 3, Core 5, Core 7)	Intel® Wi-Fi 7 BE201 + Bluetooth 5.4 Intel® Wi-Fi 7 BE202 + Bluetooth 5.4 (Core 3, Core 5, Core 7)
LAN	Intel® Ethernet Controller I226-V/LM, 2.5G[2]	Intel® Ethernet Controller I226-V/LM, 2.5G[2]
Audio	Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP Type-C ports	Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP Type-C ports
TPM	fTPM	fTPM
HDMI CEC	Yes, 2 ports on back panel	Yes, 2 ports on back panel
Front I/O Ports	1 x USB 3.2 Gen2x2 Type-C 2 x USB 3.2 Gen2 Type-A	1 x USB 3.2 Gen2x2 Type-C 2 x USB 3.2 Gen2 Type-A
Back I/O Ports	2 x HDMI 2.1 TMDS Compatible (4K@60Hz) 2 x Thunderbolt™ 4 ports (incl. DP 2.1 and USB4) 1 x USB 3.2 Gen2 Type-A 1 x USB Type-A 1 x RJ45 LAN 1 x DC-in	2 x HDMI 2.1 TMDS Compatible (4K@60Hz) 2 x Thunderbolt™ 4 ports (incl. DP 2.1 and USB4) 1 x USB 3.2 Gen2 Type-A 1 x USB Type-A 1 x RJ45 LAN 1 x DC-in
Side I/O Ports	1 x Kensington Lock	1 x Kensington Lock
Power Supply	Power supply adapter (120W/19VDC for Core Ultra 5, 7, Core 5, 7; 90W/19VDC for Core 3) with geo-specific AC cord (IEC C5)	Power supply adapter (120W/19VDC for Core Ultra 5, 7, Core 5, 7; 90W/19VDC for Core 3) with geo-specific AC cord (IEC C5)
Dimensions	Tall: 117mm x 112mm x 54mm Slim: 117mm x 112mm x 37mm	Tall: 117mm x 112mm x 54mm Slim: 117mm x 112mm x 37mm
Accessories	AC Adapter+Power Cord[4] / VESA Bracket and Screws / Cable Clip / Safety / Caution / Regulatory Insert / Warranty Card	AC Adapter+Power Cord[4] / VESA Bracket and Screws / Cable Clip / Safety / Caution / Regulatory Insert / Warranty Card
Available SKUs	Mini PC	Kits	Boards

* The SKUs listed may not cover all SKUs and all specifications are subject to change without notice.
Please check with your supplier for exact offers. Products may not be available in all markets.

Everyday AI

NUC 14 Pro

Compact Power, Intelligent Performance

- Up to Intel® Core™ Ultra 7 Processor
- AI Ready for Optimal Performance
- Intel **vPro®** Enterprise for comprehensive security and hardware-based remote management
- Toolless Chassis Design for Easy Upgrades

Everyday AI

NUC 14 Pro Mini PC

Everyday AI

NUC 14 Pro Kit (Barebone)

Operating System Support	Windows 11 Pro	Support for Windows 11 *Compatible with various Linux distributions
CPU	Intel® Core™ Ultra 7 155H Processor Intel® Core™ Ultra 5 135H Processor Intel® Core™ Ultra 5 125H Processor (TDP up to 40W)	**NUC14RVK** Intel® Core™ Ultra 7 155H Processor Intel® Core™ Ultra 5 125H Processor Intel® Core™ 3 100U Processor (TDP up to 40W) **NUC14RVH/B** Intel® Core™ Ultra 7 165H Processor with **vPro** Intel® Core™ Ultra 7 155H Processor Intel® Core™ Ultra 5 135H Processor with **vPro** Intel® Core™ Ultra 5 125H Processor Intel® Core™ 3 100U Processor (TDP up to 40W)
Chipset	Integrated	Integrated
Graphics	Intel® Arc™ GPU (U7/U5), Intel® Graphics (i3) *System requires 128-bit dual channel memory for optimal performance	
Memory	Includes either 16GB or 32GB DDR5-5600MHz (depending on SKU)	2 x SO-DIMM DDR5 5600 8GB x2 Support up to 48GB x2
Storage	Includes either 512GB or 1TB M.2 PCIe Gen4x4 NVMe SSD (depending on SKU)	**NUC14RVK** 1 x M.2 2280 PCIe Gen4x4 NVMe SSD Slot Support 1x M.2 2242 PCIe x4 NVMe SSD Slot Support **NUC14RVH** 1x M.2 2280 PCIe Gen4x4 NVMe SSD Slot Support 1x M.2 2242 PCIe x4 NVMe SSD Slot Support 1x SATA 2.5in slot for SSD/HDD Support
Wireless Network	Intel® Wi-Fi 6E AX211, 2x2, and Bluetooth® 5.3 (BT version depends on OS support)	Intel® Wi-Fi 6E AX211, 2x2, and Bluetooth® 5.3 (BT version depends on OS support)
LAN	2.5G Ethernet, 10/100/1000/2500 Mbps	2.5G Ethernet, 10/100/1000/2500 Mbps
Front I/O Ports	1 x USB 3.2 Gen2x2 Type-C, 2 x USB 3.2 Gen2 Type-A, 1 x Kensington Lock	
Rear I/O Ports	2 x Thunderbolt 4 Type-C w/ DisplayPort 1.4, 1 x USB 3.2 Gen 2 Type-A, 1 x USB 2.0 Type-A, 2 x HDMI 2.1 (TMDS), 1 x RJ45 LAN, 1 x DC-in	
Dimension	Tall: 117mm x 112mm x 54mm , Slim: 117mm x 112mm x 37mm	
Weight	Tall: 750g , Slim: 600g	
Power Supply	120W Power Adapter (U5/U7), 90W Power Adapted (C3)	
Accessories	AC Adapter + Power Cord, Warranty Card, Quick Start Guide, VESA Mount Plate	
Available SKUs	Mini PC	Kits / Boards

Advanced AI

NUC 15 Performance

Power Ahead. Maximize Efficiency

- **Next Level Performance:** Equipped with Intel® Core ™Ultra 9 275HX.
- **AI Powered Graphics:** NVIDIA® GeForce RTX ™5070 and 5060 graphics.
- **Ultra Smooth Streaming:** Intel® Killer ™Wi Fi 7
- **Flexible Expandability:** Thumb screw design, tool free for a simple and convenient experience.
- **QuietFlow Cooling:** Advanced three fan system

Operating System Support	Microsoft Windows 11 64-bit
CPU	15th Generation 55W Processor Intel® Core™ Ultra 9 275-HX processor 8P+ 16E + 4Xe, up to 5.4GHz Turbo Boost Max, 30MB Intel® Smart cache & Intel® Core™ Ultra 7 255-HX processor 8P + 12E + 4Xe, up to 5.2GHz Turbo Boost Max, 30MB Intel® Smart cache
GPU	Discrete: NVIDIA® GeForce RTX™ 5070 W/ 8GB GDDR7 VRAM Integrated: Intel® Graphics, up to 1.9 GHz & NVIDIA® GeForce RTX™ 5060 W/ 8GB GDDR7 VRAM Integrated: Intel® Graphics, up to 1.85 GHz
Memory	Dual-channel DDR5 SODIMM slots (*DDR5-6400-CSODIMM) 1.1V, 96GB max
Storage	Two M.2 22x80 SSD NVMe slots* (One PCIe x4 Gen 4, One PCIe x4 Gen5) (Tool-less mount)
Front I/O Ports	2 x USB 3.2 Gen2 Type-A 1 x USB 3.2 Gen2 Type-C 1x 3.5mm Combo Audio Jack
Back I/O Ports	1 x Thunderbolt™ 4 USB4 Type-C w/DisplayPortTM 2.1 2 x HDMI 2.1 FRL port 2 x DisplayPort 2.1 ports 4 x USB 3.2 Gen2 Type-A 1 x RJ45 LAN 1 x DC-in 1 x Kensington Lock slot
Wireless	Intel® Killer™ Wi-Fi 7 BE1750x, 802.11be, up to 5.8 Gbps w/ 2x2, 320 MHz, 4K QAM + Bluetooth® 5.4 (Key-E M.2 Slot) Intel® Ethernet Controller E3100G, 2.5G
LAN	Intel® Ethernet Controller E3100G, 2.5G
Audio	3.5mm front stereo headset jack Vertical Stand
AC Adapter	330 W External Power Adaptor
Power Supply	Power Adapter Meets DOE Level VI, efficiency > 88% 19.5VDC, 16.9A, 330W Power Adapter
Orientation	Vertical only with integrated base
Dimension	282.4mm x 187.7mm x 56.5mm (bottom: 146mm)

Everyday AI

NUC 15 Pro+

Unleash Ultra Power. Embrace Elegance

- Up to Intel® Core™ Ultra 9 processor with 99 TOPS for seamless operations.
- Ultra-Quiet Cooling featuring advanced cooling techniques.
- Ultra-fast connections with Intel® Wi-Fi 7, Wi-Fi Proximity Sensing, and Bluetooth® 5.4.
- Housed in a 0.7L chassis with a toolless upgrade system for sleek aesthetics and customization.

	NUC 15 Pro+ Mini-PC	NUC 15 Pro+ Kit
Operating System Support	Windows 11 64-bit	Windows 11 64-bit / Ubuntu 24.04 LTS 64bit / RedHat Enterprise Linux 64-bit *No OS installed at shipment
CPU	Intel® Core™ Ultra 9 Processor 285H Intel® Core™ Ultra 7 Processor 265H (**vPro**) Intel® Core™ Ultra 5 Processor 235H (**vPro**) Intel® Core™ Ultra Processor 7 255H Intel® Core™ Ultra Processor 5 225H	Intel® Core™ Ultra 9 Processor 285H Intel® Core™ Ultra 7 Processor 265H (**vPro**) Intel® Core™ Ultra 5 Processor 235H (**vPro**) Intel® Core™ Ultra Processor 7 255H Intel® Core™ Ultra Processor 5 225H
Chipset	Integrated	Integrated
Graphics	Intel® Arc™ GPU[1]	Intel® Arc™ GPU[1]
Memory	2 x SO-DIMM, Up to DDR5-6400, 96GB*2	2 x SO-DIMM, Up to DDR5-6400, 96GB*2 *No memory installed at shipment
Storage	1 x M.2 2280 PCIe Gen4x4, supports 128GB~2TB NVMe SSD 1 x M.2 2242 PCIe Gen4x4, supports 128GB~2TB NVMe SSD PCIe Gen 5 ready design	1 x M.2 2280 PCIe Gen4x4, supports 128GB~2TB NVMe SSD 1 x M.2 2242 PCIe Gen4x4, supports 128GB~2TB NVMe SSD *No storage installed at shipment
Wireless Network	Intel® Wi-Fi 7 BE201 + Bluetooth 5.4	Intel® Wi-Fi 7 BE201 + Bluetooth 5.4
LAN	Intel® Ethernet Controller I226-V/LM, 2.5G[2]	Intel® Ethernet Controller I226-V/LM, 2.5G[2]
Audio	Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP Type-C ports	Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP Type-C ports
HDMI CEC	Yes, 2 ports on back panel	Yes, 2 ports on back panel
Front I/O Ports	1 x USB 3.2 Gen2x2 Type-C 2 x USB 3.2 Gen2 Type-A	1 x USB 3.2 Gen2x2 Type-C 2 x USB 3.2 Gen2 Type-A
Back I/O Ports	2 x HDMI 2.1 TMDS Compatible (4K@60Hz) 2 x Thunderbolt™ 4 ports (incl. DP 2.1 and USB4) 1x USB 3.2 Gen2 Type-A 1x USB Type-A 1 x RJ45 LAN 1 x DC-in 1 x Kensington Lock	2 x HDMI 2.1 TMDS Compatible (4K@60Hz) 2 x Thunderbolt™ 4 ports (incl. DP 2.1 and USB4) 1x USB 3.2 Gen2 Type-A 1x USB Type-A 1 x RJ45 LAN 1 x DC-in 1 x Kensington Lock
Power Supply	19.5VDC, 7.69A, 150W Power Adapter (Core Ultra 9) 19VDC, 6.32A, 120W Power Adapter (Core Ultra 5/7)	19.5VDC, 7.69A, 150W Power Adapter (Core Ultra 9) 19VDC, 6.32A, 120W Power Adapter (Core Ultra 5/7)
Dimensions	144mm x 112mm x 42mm	144mm x 112mm x 42mm
Weights	600g	600g
Accessories	AC Adapter + Power Cord[4] VESA Bracket and Screws Safety/Caution/Regulatory Insert Warranty Card	AC Adapter + Power Cord[4] VESA Bracket and Screws Safety/Caution/Regulatory Insert Warranty Card
Available SKUs	● Mini PC	● Kits ● Boards

Everyday AI

NUC 14 Pro+

A new, eye-catching chassis for a top-of-desk display

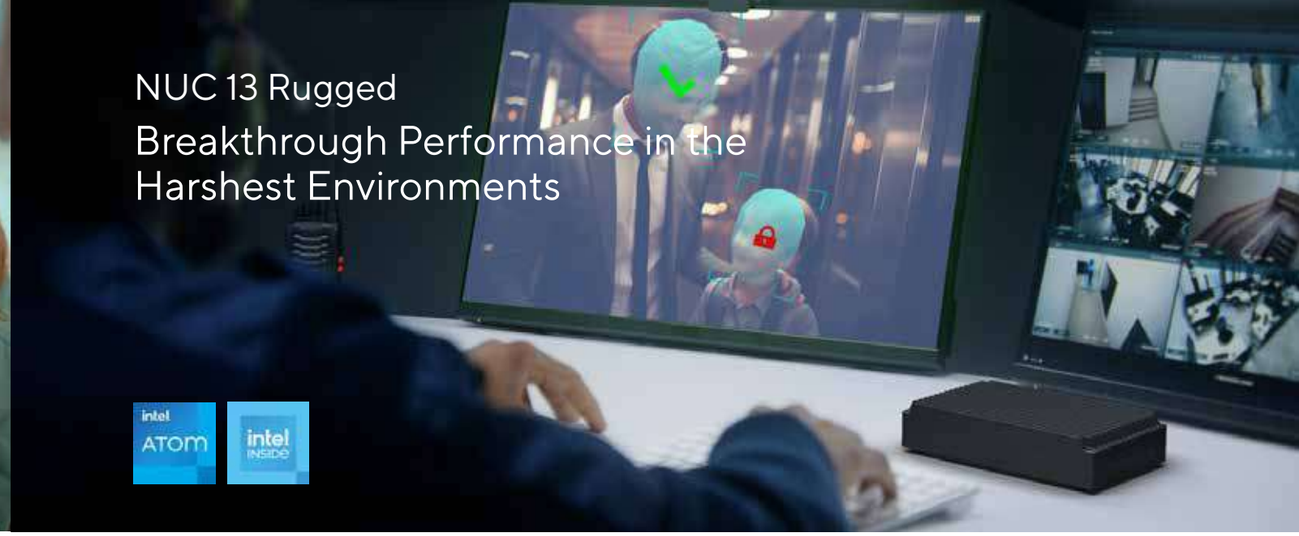
- **Performance:** Superior performance besting all other competitive mini-PCs
- **Design:** Features an eye-catching 5 x 4-inch anodized aluminum chassis
- **AI Ready:** Harnesses the prowess of the Intel® Core™ Ultra 9 processor to locally run generative AI workloads
- **Wi-Fi Sensing:** Takes advantage of Wi-Fi sensing to deliver instant availability while reducing power consumption
- **Wireless Connectivity:** Delivers seamless connectivity for certified Bluetooth® dongle-free experiences
- **Customizable:** Designed for toolless chassis access making upgrades easier, safer, and faster

	NUC 14 Pro+ Mini PC	NUC 14 Pro+ Kit
Operating System Support	Windows 11 64-bit *Compatible with various Linux distributions	Ubuntu 24.04 LTS 64-bit RedHat Enterprise Linux 64-bit
CPU	Intel® Core™ Ultra 9 185H Processor Intel® Core™ Ultra 7 155H Processor Intel® Core™ Ultra 5 125H Processor (TDP up to 65W)	Intel® Core™ Ultra 7 Processor 155H, cTDP 40W Intel® Core™ Ultra 9 Processor 185H, cTDP 65W Intel® Core™ Ultra 5 Processor 125H, cTDP 40W Intel® Core™ Ultra 7 Processor 165H w/ **vPro**, cTDP 40W Intel® Core™ Ultra 5 Processor 135H w/ **vPro**, cTDP 40W
Chipset	Integrated	Integrated
Graphics	Intel® Arc™ GPU	Intel® Arc™ GPU
Memory	2 x SO-DIMM DDR5 5600 8GB x2 or 16GB x2 Support up to 48GB x2	2 x SO-DIMM DDR5 5600 8GB x2 or 16GB x2 Support up to 48GB x2
Storage	1 x M.2 2280 PCIe Gen4x4 NVMe 512GB or 1TB SSD *1x M.2 2242 PCIe x4 NVMe SSD Slot for add-on card	1 x M.2 2280 PCIe Gen4x4 NVMe 512GB or 1TB SSD *1x M.2 2242 PCIe x4 NVMe SSD Slot for add-on card
Wireless Network	Intel® Wi-Fi 6E AX211, 2x2, and Bluetooth® 5.3 (BT version depends on OS support)	Intel® Wi-Fi 6E AX211, 2x2, and Bluetooth® 5.3 (BT version depends on OS support)
LAN	2.5G Ethernet, 10/100/1000/2500 Mbps	2.5G Ethernet, 10/100/1000/2500 Mbps
Front I/O Ports	1 x USB 3.2 Gen2x2 Type C 2 x USB 3.2 Gen2 Type A	1 x USB 3.2 Gen2x2 Type C 2 x USB 3.2 Gen2 Type A
Side I/O Ports	N/A	N/A
Rear I/O Ports	2 x Thunderbolt 4 Type-C Ports 1 x USB 3.2 Gen 2 Type-A 1 x 2.0 Type-A 2 x HDMI 2.1 (TMDS) ports 1 x RJ45 LAN Port 1 x DC-in 1 x Kensington Lock	2 x Thunderbolt 4 Type-C Ports 1 x USB 3.2 Gen 2 Type-A 1 x 2.0 Type-A 2 x HDMI 2.1 (TMDS) ports 1 x RJ45 LAN Port 1 x DC-in 1 x Kensington Lock
Dimension	144mm x 112mm x 41mm	144mm x 112mm x 41mm
Weight	800g	800g
Power Supply	150W Power Adapter (U9) 120W Power Adapter (U5/U7)	150W Power Adapter (U9) 120W Power Adapter (U5/U7)
Accessories	AC Adapter+Power Cord Warranty Card Quick Start Guide VESA Mount Keyboard+Mouse (Optional) VESA Mount plate	AC Adapter+Power Cord Warranty Card Quick Start Guide VESA Mount Keyboard+Mouse (Optional) VESA Mount plate
Available SKUs	● Mini PC	● Kits ● Boards

For Edge Computing

Around the Clock Reliability

NUC Pro, Essential, Rugged, ExpertCenter Mini PC and PL series, give edge compute solutions with full-size PC power in a small form factor.



What is Edge Compute?

Edge computing is a growing industry initiative to bring compute, storage, and connectivity capabilities closer to the user. This leads to lower latency, with a higher, more efficient use of bandwidth and better security capabilities.

Why Use a Mini PC as Your Edge Compute Device?

The NUC Pro, Essential, Rugged and ExpertCenter Mini PC, and PL models encapsulate the capabilities of modern full-size desktop PCs within a compact form factor that fits in the palm of your hand. Serving as edge computing devices, they cater to diverse applications such as kiosks, multi- display setups, meeting rooms, telehealth, and robotics. These ASUS Mini PCs are purposefully designed to withstand continuous commercial use around the clock, ensuring a dependable foundation for your edge computing solution.

Stand-alone Digital Signage

ASUS NUC and Mini PC series offers commercial-grade reliability and performance for your digital signage applications. Stream 4K video to multiple displays, digitize menu boards and lobby signs, and support other visual solutions. Additionally, the series can support interactive screens and sales transactions in the future.

Video Wall

Ensure a strong, flexible foundation for multiscreen, high-impact installations. A single Mini PC has multiple 4K video channel outputs through HDMI and Thunderbolt™ technology. Just one device can drive multiple displays as a unified monitor or feed each screen a different stream.

Kiosk

Kiosks demand more than a simple digital signage player. Today's self-service kiosks let people check in at hotels, check inventory across stores, and find directions. This requires more processing power for interactive touchscreens and imaging. ASUS NUC and Mini PC deliver this performance in a range of form factors that streamline design and manufacturing.

	NUC 13 Rugged-Slim	NUC 13 Rugged-Tall
Operating System Support	Windows 11*	Without OS
CPU	Intel® Processor N50 (TDP 6W)	Intel® Atom® x7211E Intel® Atom® x7425E(TDP 6W/12W)
Chipset	Integrated	Integrated
Graphics	Intel® UHD Graphics Technology	Intel® UHD Graphics Technology
Memory	1 x SO-DIMMDDR5 4800 MT/s memory 8GB~16GBoptional "in-band" ECC support (select models only)	1 x SO-DIMMDDR5 4800 MT/s memory 8GB~16GBoptional "in-band" ECC support (select models only)
Storage	64GB eMMC soldered-down 1x M.2 2280 slot PCIe x2 NVMe SSD 1x M.2 3042 Slot (SATA SSD/PCI x1/USB3.2 Gen2)	64GB eMMC soldered-down 1x M.2 2280 slot PCIe x2 NVMe SSD 1x M.2 3042 Slot (SATA SSD/PCI x1/USB3.2 Gen2)
Wireless Network	Intel® Wi-Fi 6E AX210 (External Antenna) + Bluetooth® v5.3	Intel® Wi-Fi 6E AX210 (External Antenna) + Bluetooth® v5.3
LAN	Dual 2.5G Ethernet, 10/100/1000/2500 Mbps	Dual 2.5G Ethernet, 10/100/1000/2500 Mbps
Side I/O	1 x Kensington Lock	1 x Kensington Lock
Rear I/O differences	2 x USB 3.2 Gen1 Type A (rear panel) 2 x USB 2.0 Type A (rear panel) 2 x USB 2.0 Headers (internal) 2 x HDMI 2.1 TMDS Ports with Built-In CEC Support 2 x 4K@60Hz display or 2 x 1080@60Hz (2 x HDMI 2.1 TMDS) 2 x RJ45 LAN Port 1 x DC-in	2 x USB 3.2 Gen1 Type A (rear panel) 2 x USB 2.0 Type A (rear panel) 2 x USB 2.0 Headers (internal) 2 x HDMI 2.1 TMDS Ports with Built-In CEC Support 2 x 4K@60Hz display or 2 x 1080@60Hz (2 x HDMI 2.1 TMDS) 2 x RJ45 LAN Port 1 x DC-in
Power Supply	65W Power Adapter	90W Power Adapter
Operating Temp	0 to 40C	0 to 40C
Dimension	174 x 108 x 25.9H mm (internal heatsink) [H: +3.4mm rubber feet]	174 x 108 x 35.8H mm (external heatsink)[H: +3.4mm rubber feet]
Accessories	AC Adapter+Power Cord Warranty Card Quick Start Guide VESA Mount Keyboard+Mouse (Optional)	AC Adapter+Power Cord Warranty Card Quick Start Guide VESA Mount Keyboard+Mouse (Optional)
Available SKUs	○ Mini PC ● Kits ● Boards	○ Mini PC ● Kits ● Boards

Introducing ASUS PL Series Mini PCs

ASUS PL series mini PCs are designed mainly for indoor industrial applications. PL series mini PCs are subjected to strict testing standards, offer legacy connectivity and long product life cycles to cater to a diverse range of uses.

Digital Signage

- Compact 200 x 120 x 34 mm dimensions, ideal for digital signage
- Stunning 4K resolution output Triple display support via HDMI
- EDID emulation: Ensures video output is suitable for the display
- Virtual display: Efficient remote device management without a monitor

Kiosk & Store OA

- Dual COM ports with RS- 232/422/485 support with easy driver setup
- Dual LAN with one 2.5 GbE port
- Designed to operate at up to 50°C ambient temperature
- Compact metal chassis offers versatile mounting options to suit various needs
- Reliable fanless design

IoT Control Unit

- Powerful computing performance with up to 12th Gen Intel® Core™ i7 processors (15 W)
- Reliable fanless design
- Virtual display: Remote management for headless systems
- Dual LAN ports with one 2.5 GbE LAN
- WiFi 6E for stable, high-speed data transfers
- Stringently tested to ensure 24/7 reliability
- Versatile mounting options to suit various needs

Advanced Output Management

EDID Emulation

Mini PC PL64 features Extended Display Identification Data (EDID) emulation and retains signage format so content being displayed remains unaffected even in the event of a temporary loss of power or connectivity issues, making it ideal for digital.

Original

(Without EDID Emulation Function)
The content may broken

Enable EDID emulation

The content is retained, once you reconnect the display, you can get it back and final

Once a monitor is unconnected

Virtual Display

PL64 can create virtual screens without a connected display. Virtual Display technology provides access to the system via a remote desktop, without affecting content that's currently being displayed, allowing an administrator to manage the system offsite.

	PL64-D1	PL64
Operating System Support	Windows®11 Pro 64bit Windows®11 64bit W/O OS	Windows®11 Pro 64bit Windows®11 64bit W/O OS
CPU	Intel® Core™ i7-1255U Processor (cTDP 15W) Intel® Core™ i5-1235U Processor (cTDP 15W) Intel® Core™ i3-1215U Processor (cTDP 15W) Intel® Celeron® 7305 Processor (cTDP 15W)	Intel® Core™ i7-1255U Processor (cTDP 15W) Intel® Core™ i5-1235U Processor (cTDP 15W) Intel® Core™ i3-1215U Processor (cTDP 15W) Intel® Celeron® 7305 Processor (cTDP 15W)
Chipset	Integrated	Integrated
Graphics	Integrated - Intel® Iris® Xe Graphics (i5/i7 CPU) Integrated - Intel® UHD Graphics (i3/Celeron® CPU)	Integrated - Intel® Iris® Xe Graphics (i5/i7 CPU) Integrated - Intel® UHD Graphics (i3/ Celeron® CPU)
Memory	2 x SO-DIMM, DDR4-3200MHz memory, up to 32GB*2	2 x SO-DIMM, DDR4-3200MHz memory, up to 32GB*2
Storage	2 x M.2 2280 PCIe Gen4x4, supports 256GB~2TB NVMe™ SSD	2 x M.2 2280 PCIe Gen4x4, supports 256GB~2TB NVMe™ SSD
Wireless Network	Intel® AX211 (Gig+), Wi-Fi 6E, Bluetooth 5.3, 2*2 Intel® AX201 (Gig+), Wi-Fi 6, Bluetooth 5.2, 2*2 * Bluetooth version support may vary from OS. Bluetooth v5.2 function will be ready in Windows 11 or later.	Intel® AX211 (Gig+), Wi-Fi 6E, Bluetooth 5.3, 2*2 Intel® AX201 (Gig+), Wi-Fi 6, Bluetooth 5.2, 2*2 * Bluetooth version support may vary from OS. Bluetooth v5.2 function will be ready in Windows 11 or later.
LAN	3 x Intel® I225V, 2.5G LAN	Intel® I225V LAN, 2.5G LAN Intel® I219V LAN, Gb LAN
TPM	fTPM 2.0 or TPM 2.0 chip (Optional)	fTPM 2.0 or TPM 2.0 chip (Optional)
Front I/O Ports	3 x USB 3.2 Gen2 Type-A, 2 x USB 2.0, 1 x PoE port 1 x Audio Jack (Line out/Mic in/Headphone out)	3 x USB 3.2 Gen2 Type-A 2 x COM (RJ50; support RS232, 422, 485) 1 x Audio Jack (Line out/Mic in/Headphone out)
Side I/O Ports	1 x USB 3.2 Gen1 Type-A 1 x Kensington Lock slot	2 x USB 3.2 Gen1 Type-A 1 x Kensington Lock slot
Rear I/O Ports	3 x HDMI 2.1 (Up to 4K@60Hz), 2 x PoE port, 1 x EDID reset, 2 x Antenna Jack, 1 x DC-in, * Supports up to 3 display simultaneously Power	3 x HDMI 2.1 (Up to 4K@60Hz), 1 x 2.5G RJ45 LAN, 1 x RJ45 LAN, 1 x EDID reset, 2 x Antenna Jack, 1 x DC-in * Supports up to 3 display simultaneously
Power Supply	150W Power Adapter	19Vdc, 3.42A 65W Power Adapter
Dimension / Weight	199.7mm x 119.7mm x 33.9mm (0.81L)	199.7 x 119.7 x 33.9 mm (0.8L)
Weight	1 kg (barebone)	1.04 kg (barebone)
Accessories	・Warranty Card ・AC Adapter ・Power Cord ・VESA Mount (optional) ・WiFi Antenna (External Antenna)	・Warranty Card ・AC Adapter ・Power Cord ・VESA Mount (optional) ・WiFi Antenna (External Antenna)
Available SKUs	● Mini PC ● Kits ○ Boards	● Mini PC ● Kits ○ Boards

Advanced AI

ROG NUC (2025)

REPUBLIC OF GAMERS

GAMING REDEFINED: POWER MEETS PRECISION

ROG NUC (2025) embodies the ROG For Those Who Dare spirit, pushing the boundaries of intensive graphics processing, in a compact form factor. The latest ROG NUC (2025) boasts powerful chipsets and graphics processing capabilities for lag-free streaming, editing, and gaming. Three fans plus dual vapor chambers ensure silent cooling, while extensive connectivity options including Intel® Killer™ Wi-Fi 7 ensure smooth online gaming experiences.

Hardcore Gaming Power

Intel® Core™ Ultra processors (Series 2) ARL-HX

ROG NUC (2025) is engineered to deliver exceptional responsiveness and efficiency during intense gaming sessions, harnessing the prowess of Intel® Core™ Ultra processors' three AI engines – GPU, NPU, and CPU – for high throughput, low power, and fast response.

NVIDIA® GeForce RTX™ 50 Series Laptop GPU

Featuring Nvidia® Blackwell architecture and NVIDIA® GeForce RTX™ 50 Series Laptop GPU, ROG NUC (2025) delivers significant performance enhancements over the previous RTX 40-series. With advanced ray tracing and AI optimization, the powerful GPU ensures smooth gameplay at high settings, providing an immersive experience with realistic visuals.

Silent Cooling

Three Fans & Dual Vapor Chamber

Featuring three fans plus dual vapor chambers, ROG NUC (2025) efficiently dissipates heat, allowing users to push the limits during demanding gameplay without compromising performance.

Quiet Operation

An innovative thermal design ensures the system remains quiet (<4.5 BA) even under heavy loads.

Intelligent Thermal Management

The system automatically adjusts fan speeds based on real-time temperature and workload, ensuring that cooling power is optimized for each gaming scenario.

Enhanced Airflow Design

Chassis design has been optimized to promote effective ventilation to maintain lower internal temperatures and reduce the risk of thermal throttling.

Ultra-Responsive Connectivity

Intel® Killer™ Wi-Fi 7 and Bluetooth® 5.4 ensure fast, uninterrupted online performance for competitive gaming. Speeds of up to 46Gbps and technologies like Multi-Link Operation ensure fast downloads and uninterrupted gaming.

Advanced AI

ROG NUC (2025)	
Operating System Support	Microsoft Windows 11 Home
Display	Up to Five 4K Displays
CPU	Intel® Core™ Ultra 9 (Series 2) 275-HX
GPU	NVIDIA® GeForce RTX™ 5080 Laptop GPU 16GB GDDR7
Memory	Dual-channel DDR5-6400-CSODIMM 1.1V, 96GB max Intel® XMP 3.0 memory compatible
Storage	Two M.2 22x80 SSD NVMe slots* (One PCIe x4 Gen 4, One PCIe x4 Gen5) Toolless Mount
Front I/O Ports	2 x USB 3.2 Gen2 Type-A 1 x USB Gen 3.2 Type C1x 3.5mm Headset Jack
Back I/O Ports	One Thunderbolt™ 4 / USB4 Type-C port with DP 2.1 and (5V@3A / 5V@1.5A / 9V@2A / 12V@1.5A) fast charging profiles 2 x HDMI 2.1 FRL port 2 x DisplayPort 2.1 ports 4 x USB 3.2 Gen2 Type-A 1 x RJ45 LAN 1 x DC-in 1 x Kensington Lock
Wireless	Intel® Killer™ Wi-Fi 7 AX1750x, 802.11be, up to 5.8 Gbps w/ 2x2, 320 MHz, 4K QAM + Bluetooth® 5.4 (Key-E M.2 Slot)
LAN	Intel® 2.5 Gb Ethernet port
Audio	3.5mm front stereo headset jack Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
AC Adapter	19.5VDC 330W power supply
Chassis	ARGB lighting with ROG Armoury Crate w/ Aura sync software Vertical stand integrated
Important Specs	Tool less chassis with metal inner frame Kensington* lock with base security
Dimension	282.4mm x 187.7mm x 56.5mm (bottom: 146mm)


IN SEARCH OF INCREDIBLE