intel nuc



Intel® NUC 13 Pro

The Mini PC That Means Business

Power modern business with the astonishing performance of 13th Gen Intel® Core™ processors in a 4x4 that fits almost anywhere





Business Driver.
Space Saver.

Intel® NUC 13 Pro Mini PCs, Kits, and Boards offer the perfect combination of size, performance, sustainability, and reliability to drive modern business.

It all starts with 13th Gen Intel® Core™ processors that deliver outsized performance in a 4x4 form factor, with up to 14 processor cores (6P+8E) and up to 64GB dual-channel DDR4-3200 memory. Select SKUs also come with Intel vPro® Enterprise, which provides comprehensive security, enterprise-grade stability, and hardware-based remote management.

The Intel® NUC Pro Software Suite (NPSS) helps to ensure digital signage applications keep running during any unexpected system failures. Businesses also benefit from advanced features including power control, hardware alarm clock, hardware KVM, boot redirection, beyond firewall support, cloud-based manageability, remote PC remedy, and unattended system control.

To provide an eco-friendly foundation for businesses, Intel® NUC 13 Pro Mini PCs and Kits are upgradable, repairable, and reusable. Select SKUs come with five-year product availability, and every system is qualified for 24x7 operation and designed to last with a three-year warranty from Intel.

Features

- 13th Gen Intel® Core™ i7/i5/i3 processors
- Intel vPro® Enterprise with 13th Gen Intel® Core™ i7/i5 processors
- Windows 11 Pro or WIndows 10 IoT Enterprise
- Intel® Iris® Xᵉ graphics or Intel® UHD graphics for 13th Gen Intel® Processors
- Up to 64GB dual-channel DDR4-3200 memory
- M.2 slots for PCIe x4 Gen 4 NVMe SSD and second SSD (select SKUs support third SSD)
- 2 Thunderbolt™ 4 ports, 3 USB 3.2 ports, 1 USB 2.0 port, 2 HDMI 2.1b ports
- Intel® i226 Ethernet for speeds up to 2.5 Gbps (second Ethernet port on select SKUs)
- Intel® Wi-Fi 6E (Gig+)
- Delayed AC start, auto CMOS reset, DC transient voltage suppression, and DC overvoltage/undervoltage protection
- Display emulation via HDMI (headless, virtual, and persistent displays)
- Tolerates up to 40° C external ambient operating temperature
- Intel three-year warranty and qualified for 24x7 operation
- Five-year product availability (select SKUs)
- 2 matte-textured chassis options
- Board: 104x102mm

Productivity

Powerful performance for business computing

Displays

Connect up to four 4K extended displays

Collaboration

The latest in wired and wireless connectivity for video conferencing and huddle rooms

Reliability

Qualified for 24/7 operation

Edge compute

Built for digital signage/kiosks and intelligent vending



Intel® NUC 13 Pro: The Right Size for Modern Business

Intel vPro®

An Unrivaled Business PC Platform



For comprehensive security, enterprise-grade stability, and hardware-based remote management, select Intel® NUC 13 Pro SKUs feature Intel vPro® Enterprise with 13th Gen Intel® Core™ i7/i5 processors.

Revolutionary business performance

Provide business teams with Intel's latest, highly reliable, professional-grade technologies to help them thrive in a rapidly changing digital world. 13th Gen Intel® Core™ processors are designed to amplify employee productivity with powerful performance tuned for the workloads and applications business professionals use most.

Intel® Stable IT Platform Program

Take advantage of hardware stability and enterprise-level validation of key hardware components to reduce the number of changes seen over the life of a device. Intel® SIPP aims for no hardware driver or firmware changes for at least 15 months, or until the next-generation product is released.

Comprehensive, Multilayer Security

Evolving threats require all-inclusive security features, designed to the most stringent standards. Intel® Hardware Shield delivers integrated hardware-based PC protection, which includes below-the-OS security, application and data protection, and advanced threat detection.

Hardware-based remote management

In today's work-at-home world, the office is everywhere. With PCs running on Intel vPro, IT can be everywhere too.

Cloud-Based Manageability

By hosting management servers in the cloud, any PC that can connect to the cloud, regardless of whether it's inside or outside the corporate firewall, can be accessible.

Intel® Active Management Technology

Fix a wider range of systems issues, even when the OS is down, with persistent out-of-band connectivity that operates independently of the OS. Repair corrupted drivers, application software, or the OS on non-responsive systems that will not run or boot.

Intel® Endpoint Management Assistant (Intel® EMA) software

With Intel® EMA Software, IT can remotely and securely manage Intel® Active Management Technology devices beyond the firewall via the cloud on known Wi-Fi networks.

KVM (Keyboard, video, mouse)

Hardware-based KVM allows IT to remotely control PCs even if the OS is not running or the system is asleep. No additional equipment or software is required if Intel® AMT is configured.

Hardware alarm clock

Set wake-up times and schedule patch, drivers and app updates.

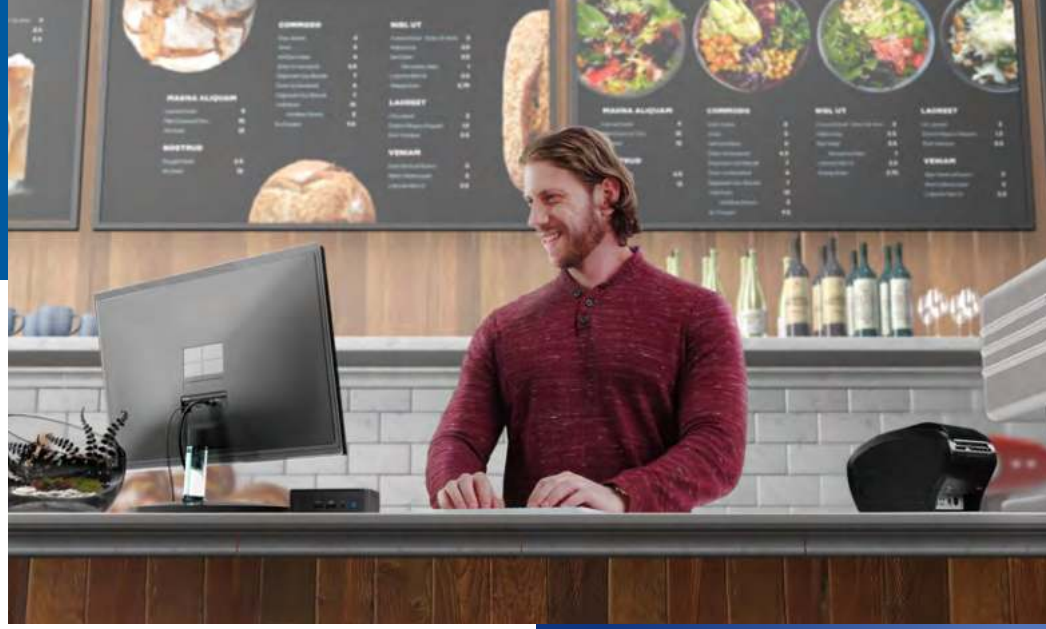
Remote PC Remedy

Diagnose and remedy PC fleets remotely including OS and image installation.

Remote Power Control

Manage entire fleets with remote power-on, power-off, and BIOS redirection.

Add resilience to Digital Signage



When digital signage solutions run continually and reliably, they help businesses build their brands and connect with customers. However, unexpected failures can quickly undermine brand integrity, especially when they occur at unattended installations.

To add resilience to digital signage, the Intel® NUC 13 Pro features the Intel® NUC Pro Software Suite (NPSS) which monitors unattended applications and provides redundant screen services for digital signage applications. NPSS is available for both Windows and Linux and is agnostic of CMS package.

Application Monitor

The Application Monitor feature of NPSS makes it easy to monitor up to five digital signage applications simultaneously.

How it works

- Monitored unresponsive applications are restarted after the timeout threshold is reached.
- Systems can be configured to restart if the monitored application crashes a specific number of times since last restart.
- Unresponsive applications can be terminated and restarted.

Player Failover

If an individual system failure occurs, the Player Failover feature of NPSS can provide redundant screen services for display continuity. The bundled NPSS Configuration Tool provides step-by-step instructions for configuring the Player Failover capabilities to target each Intel NUC and its primary and secondary displays.

How it works

- Each Intel NUC system is connected to its primary display via the HDMI 1 port and to the primary display of the other Intel NUC via HDMI 2 port.
- Systems configured for Player Failover establish a heartbeat to support failure detection.
- Each Intel NUC supports its primary display while both systems are operational.
- When a failure is detected, the operational Intel NUC drives both displays - its own as well as the primary display of the failed system.

Advanced Features

NPSS offers advanced features that make it easy to configure select system settings and perform diagnostics. HDMI Hardware Diagnostic supports execution of HDMI CEC control and status commands to the display via HDMI CEC.

Key capabilities

- Terminate and relaunch the application when a targeted application becomes unresponsive.
- Gracefully shut down or restart the OS when it detects a target application failed x+ times, since the last Windows boot, as specified by the user.
- Log application monitoring activity to an easily accessible log file.
- Enable a hardware watchdog timer to execute a hard system reset if the system (or NPSS itself) becomes unresponsive.
- Take over display of a paired Intel NUC if it experiences a system failure, allowing the affected Intel NUC to resume driving its display when it returns to a healthy state.

IoT and Edge compute



Intel® NUC 13 Pro devices offer the perfect combination of size, performance, rich I/O, and reliability for IoT use cases: factories, retail, hospitals, smart cities and more. Choose 13th Gen Intel® Core™ PE or UE processors optimized for embedded performance, and Windows 10 IoT Enterprise for compute truly built for the edge.

The term "edge computing" has become increasingly popular over the years with the proliferation of data and the need to quickly process and analyze it. Edge computing is a distributed computing concept that allows data to be processed closer to the originating source.

In other words, edge computing is all about proximity and its benefits include decreasing bandwidth constraints, reducing network latency, predicting maintenance issues, and improving security and business insights. Instead of transmitting raw data to a centralized location for processing and analysis, edge computing allows those tasks to be performed where the data is generated – be that a retail store, factory floor, hospital, or smart city – lowering the costs of data transport, providing better response times, and enabling faster decision-making.

At Intel, we are committed to delivering an amazing experience so that makes Intel® NUC the edge compute platform of choice for distributors, developers, and end users. The breadth of the Intel NUC family of high-quality, reliable, and easy-to-use products create a massive leap forward in scalability for Industry IoT solutions.

Intel® NUC 13 Pro Mini PCs, Kits, and Boards offer the perfect combination of size, performance, rich I/O, and reliability to drive modern business and IoT use cases. Over the past decade, Intel NUCs have been used as edge computing devices primarily in the retail, banking, and hospitality industries for digital signage, multi-display video walls, point-of-sales, intelligent vending, and digital kiosks and other interactive displays. However, there are many more edge compute usages for Intel NUCs. Here are just a few:

Edge Compute

Cities and transportation

- Autonomous vehicles, electric vehicles, and charging stations
- Traffic management
- Parking access management

Healthcare

- Medical imaging
- Nurse workstation
- CT scanning

Industrial

- Process monitoring
- Predictive maintenance
- Industrial gateways

Education

- Smart board
- Interactive display

Supply chain

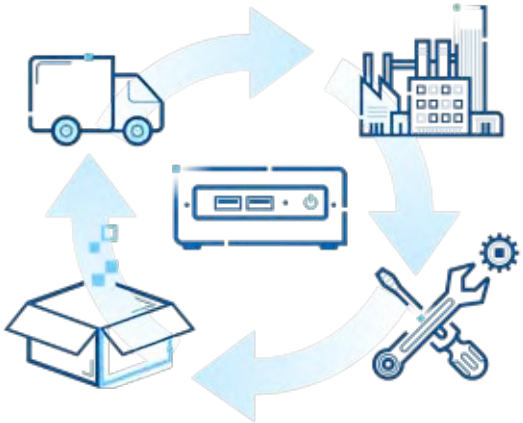
- Bin picking
- Quality assurance
- Inventory management

Sustainability

Eco-Friendly Business Practices



Sustainability is a core value for Intel, and upgradable, repairable, and reusable Intel® NUC products are leading the way.



Reimagining sustainable computing

Sustainability is built into every stage of the Intel NUC product life cycle—including product design, manufacturing, packaging, customer use, and returns.

Sustainable shipping

Compared to larger PCs, the small size of Intel NUC products saves big on shipping, warehousing, and cooling costs. When an Intel NUC product is returned, every attempt is made to recycle it, repurpose it, or repair it as part of the Return Material Authorization (RMA) Program

Sustainable design and build

Intel NUC products are made from recycled plastics and built with low-temperature solder for approximately 25 percent energy savings.

Sustainable packaging

The latest Intel NUC product packaging—including box, liners, and paperwork—is recyclable or reusable in secondary markets.

Sustainable returns

When an Intel NUC product is returned, every attempt is made to recycle it, repurpose it, or repair it as part of the Return Material Authorization (RMA) Program.

Right to Repair

Intel NUC devices are designed to be customized, upgraded and yes, repaired. With robust product documentation, tools for troubleshooting and maintenance, and a wide catalog of modular parts, users can rebuild their original NUC or upgrade it with higher performing components.

Intel NUC Sustainability Achievements

99.5%

of all Intel NUC returned material was kept out of landfills in 2021.

95%

of all Intel NUC packaging was designed to be recyclable or reusable in 2021.

75%

Two-thirds of the chassis for the Intel® NUC 13 Pro is made up of up to 75% post-consumer recycled plastics. Compare this to many other products on the market that are using closer to 20% recycled plastics, and you can start to envision how the higher percentage has a significant impact on what we are able to re-use.

Learn more:
intel.com/NUCsustainability

Built with 13th Generation Intel® Core™ i7 vPro® processors

Intel® NUC 13 Pro Kits and Boards

Name	Intel® NUC 13 Pro Kit			Intel® NUC 13 Pro Board
SKU	NUC13L3Kv7	NUC13L3Hv7	NUC13L5Kv7	NUC13L5Bv7
Form Factor	Slim	Tall	Slim	Board
Processor	**Intel® Core™ i7-1370P processor** Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 14 Processor Cores (6P+8E), 20 threads, 24MB Intel® Smart Cache, 35W TDP P-Cores: Up to 5.2GHz Turbo, E-Cores: Up to 3.9GHz Turbo		**Intel® Core™ i7-1370PE processor** Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 14 Processor Cores (6P+8E), 20 threads, 24MB Intel® Smart Cache, 35W TDP P-Cores: Up to 4.80 GHz Turbo, E-Cores: Up to 1.90 GHz Turbo)	
Graphics	Intel® Iris® Xᵉ Graphics 96 EU, 1.50 GHz		Intel® Iris® Xᵉ Graphics 96EU, 1.40 GHz	
Memory	2x DDR4-3200 SODIMMs (up to 64GB)			
Storage	M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability			
Thunderbolt™ Technology	2x Thunderbolt™ 4 ports (incl. DisplayPort 2.1 and USB4) via back panel type C connectors			
Other Technologies	Intel® i226-LM 10/100/1000/2500 Mbps RJ45 Ethernet port | Discrete TPM 2.0 | 2x front and 1x rear USB 3.2 Gen 2 type A ports 1x rear type A and 2x internal USB 2.0 headers | 2x HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port. 3.5mm front stereo headset jack | Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports			
Wireless	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3			Not included
AC Cord	US, EU, UK and no cord option		No	–
Expansion Bay	n/a	Faceplate	n/a	
VESA Bracket	Yes			n/a
OS Compatibility	Microsoft Windows 11 (logo'd), Windows 10 IoT Enterprise, compatible with various Linux distros		Windows 10 IoT Enterprise, compatible with various Linux distros	
What's needed	Memory, Storage, and Operating System			
Availability	3 year		5 year	

Built with 13th Generation Intel® Core™ i5 vPro® processors

Intel® NUC 13 Pro Kits and Boards

Name	Intel® NUC 13 Pro Kit		Intel® NUC 13 Pro Board	Intel® NUC 13 Pro Kit	Intel® NUC 13 Pro Board
SKU	NUC13L3Kv5	NUC13L3Hv5	NUC13ANBv5	NUC13L5Kv5	NUC13L5Bv5
Form Factor	Slim	Tall	Board	Slim	Board
Processor	**Intel® Core™ i5-1350P processor** Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB Intel® Smart Cache, 35W TDP P-Cores: Up to 4.70 GHz Turbo, E-Cores: Up to 3.50 GHz Turbo			**Intel® Core™ i5-1350PE processor** Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB Intel® Smart Cache, 35W TDP P-Cores: Up to 4.60 GHz Turbo, E-Cores: Up to 3.40 GHz Turbo	
Graphics	Intel® Iris® Xᵉ Graphics 80EU, 1.50 GHz			Intel® Iris® Xe Graphics 80EU, 1.40 GHz	
Memory	2x DDR4-3200 SODIMMs (up to 64GB)				
Storage	M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability				
Thunderbolt™ Technology	2x Thunderbolt™ 4 ports (incl. DisplayPort 2.1 and USB4) via back panel type C connectors				
Other Technologies	Intel® i226-LM 10/100/1000/2500 Mbps RJ45 Ethernet port | Discrete TPM 2.0 | 2x front and 1x rear USB 3.2 Gen 2 type A ports 1x rear type A and 2x internal USB 2.0 headers | 2x HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port. 3.5mm front stereo headset jack | Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports				
Wireless	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3		Not included	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3	Not included
AC Cord	US, EU, UK and no cord option		–	No	–
Expansion Bay	n/a	Faceplate	n/a		
VESA Bracket	Yes		n/a	Yes	n/a
OS Compatibility	Microsoft Windows 11 (logo'd), Windows 10 IoT Enterprise, compatible with various Linux distros			Windows 10 IoT Enterprise, compatible with various Linux distros	
What's needed	Memory, Storage, and Operating System				
Availability	3 year			5 year	

Built with 13th Generation Intel® Core™ i7 processors

Intel® NUC 13 Pro Mini PCs, Kits and Boards

Name	Intel® NUC 13 Pro Kit		Intel® NUC 13 Pro Mini PC		Intel® NUC 13 Pro Board
SKU	NUC13ANKi7	NUC13ANHi7	NUC13ANKi7	NUC13ANHi7	NUC13ANBi7
Form Factor	Slim	Tall	Slim	Tall	Board
Processor	**Intel® Core™ i7-1360P processor** Intel® Iris® Xᵉ Graphics 12 Processor Cores (4P+8E), 16 threads, 18MB Intel® Smart Cache, 35W TDP P-Cores: Up to 5.0 GHz Turbo, E-Cores: Up to 3.70 GHz Turbo				
Graphics	Intel® Iris® Xᵉ Graphics 96EU, 1.50 GHz				
Memory	2x DDR4-3200 SODIMMs (up to 64GB)		16GB Memory (2x 8GB DDR4-3200 SODIMMs)		2x DDR4-3200 SODIMMs (up to 64GB)
Storage	M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability		512GB SSD		M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability
Thunderbolt™ Technology	2x Thunderbolt™ 4 ports (incl. DisplayPort 2.1 and USB4) via back panel type C connectors				
Other Technologies	Intel® i226V 10/100/1000/2500 Mbps RJ45 Ethernet port | 2x front and 1x rear USB 3.2 Gen 2 type A ports 1x rear type A and 2x internal USB 2.0 headers | 2x HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port. 3.5mm front stereo headset jack | Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports				
Wireless	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3				Not included
AC Cord	US, EU, UK and no cord option	US, EU, UK, CN and no cord option	US, EU, UK, and CN		–
Expansion Bay	n/a	Faceplate	n/a	Faceplate	n/a
VESA Bracket	Yes			No	n/a
OS Compatibility	Microsoft Windows 11 (logo'd), Windows 10 IoT Enterprise, compatible with various Linux distros		Windows 11 Pro Standard included	Windows 11 Home Advanced included	Microsoft Windows 11 (logo'd), Windows 10 IoT Enterprise, compatible with various Linux distros
What's needed	Memory, Storage, and Operating System		–		Memory, Storage, and Operating System
Availability	3 year				

Built with 13th Generation Intel® Core™ i5 processors

Intel® NUC 13 Pro Mini PCs, Kits and Boards

Name	Intel® NUC 13 Pro Kit		Intel® NUC 13 Pro Board	Intel® NUC 13 Pro Mini PC		Intel® NUC 13 Pro Kit	Intel® NUC 13 Pro Board
SKU	NUC13ANKi5	NUC13ANHi5	NUC13ANBi5	NUC13ANKi5	NUC13ANHi5	NUC13L5Ki5	NUC13L5Bi5
Form Factor	Slim	Tall	Board	Slim	Tall	Slim	Board
Processor	**Intel® Core™ i5-1340P processor** Intel® Iris® Xᵉ Graphics 12 Processor Cores (4P+8E), 16 threads,12MB Intel® Smart Cache, 35W TDP P-Cores: Up to 4.60 GHz Turbo, E-Cores: Up to 3.40 GHz Turbo					**Intel® Core™ i5-1340PE processor** Intel® Iris® Xᵉ Graphics 12 Processor Cores (4P+8E), 16 threads,12MB Intel® Smart Cache, 35W TDP P-Cores: Up to 4.50 GHz Turbo, E-Cores: Up to 3.30 GHz Turbo	
Graphics	Intel® Iris® Xᵉ Graphics 80EU, 1.45 GHz					Intel® Iris® Xᵉ Graphics 80EU, 1.35 GHz	
Memory	2x DDR4-3200 SODIMMs (up to 64GB)			8GB Memory (2x 4GB DDR4-3200 SODIMMs)		2x DDR4-3200 SODIMMs (up to 64GB)	
Storage	M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability			512GB SSD		M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability	
Thunderbolt™ Technology	2x Thunderbolt™ 4 ports (incl. DisplayPort 2.1 and USB4) via back panel type C connectors						
Other Technologies	Intel® i226V 10/100/1000/2500 Mbps RJ45 Ethernet port | 2x front and 1x rear USB 3.2 Gen 2 type A ports 1x rear type A and 2x internal USB 2.0 headers | 2x HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port. 3.5mm front stereo headset jack | Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports						
Wireless	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3		Not included	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3			Not included
AC Cord	US, EU, UK and no cord option	US, EU, UK, CN and no cord option	–	US, EU, UK, and CN		No	–
Expansion Bay	n/a	Faceplate	n/a	n/a	Faceplate	n/a	
VESA Bracket	Yes		n/a	Yes			n/a
OS Compatibility	Microsoft Windows 11 (logo'd), Windows 10 IoT Enterprise, compatible with various Linux distros			Windows 11 Pro Standard included	Windows 11 Home Standard included	Windows 10 IoT Enterprise, compatible with various Linux distros	
What's needed	Memory, Storage, and Operating System			–		Memory, Storage, and Operating System	
Availability	3 year					5 year	

Built with 13th Generation Intel® Core™ i3 processors

Intel® NUC 13 Pro Mini PCs, Kits and Boards

Name	Intel® NUC 13 Pro Kit				Intel® NUC 13 Pro Board	Intel® NUC 13 Pro Mini PC		Intel® NUC 13 Pro Kit	Intel® NUC 13 Pro Board
SKU	NUC13ANKi3	NUC13L3Ki3	NUC13ANHi3	NUC13L3Hi3	NUC13ANBi3	NUC13ANKi3	NUC13ANHi3	NUC13L5Ki3	NUC13L5Bi3
Form Factor	Slim		Tall		Board	Slim	Tall	Slim	Board
Processor	**Intel® Core™ i3-1315U processor** 6 Processor Cores (2P+4E), 8 threads, 10MB Intel® Smart Cache, 20W TDP P-Cores: Up to 4.50 GHz Turbo, E-Cores: Up to 3.30 GHz Turbo							**Intel® Core™ i3-1315UE processor** 6 Processor Cores (2P+4E), 8 threads, 10MB Intel® Smart Cache, 20W TDP P-Cores: Up to 4.50 GHz Turbo, E-Cores: Up to 3.30 GHz Turbo	
Graphics	Intel® UHD Graphics for 13th Gen Intel® processors								
Memory	2x DDR4-3200 SODIMMs (up to 64GB)					8GB Memory (2x 4GB DDR4-3200 SODIMMs)		2x DDR4-3200 SODIMMs (up to 64GB)	
Storage	M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability					512GB SSD		M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD, M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability	
Thunderbolt™ Technology	2x Thunderbolt™ 4 ports (incl. DisplayPort 2.1 and USB4) via back panel type C connectors								
Other Technologies	Intel® i226V 10/100/1000/2500 Mbps RJ45 Ethernet port | 2x front and 1x rear USB 3.2 Gen 2 type A ports 1x rear type A and 2x internal USB 2.0 headers | 2x HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port. 3.5mm front stereo headset jack | Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports								
Wireless	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3				Not included	Intel® Wi-Fi 6E (Gig+), Bluetooth® 5.3			Not included
AC Cord	US, EU, UK and no cord option		US, EU, UK, CN and no cord option	US, EU, UK and no cord option	–	US, EU, UK, CN		No	–
Expansion Bay	n/a		Faceplate		n/a		Faceplate	n/a	
VESA Bracket	Yes				n/a	Yes	No	Yes	n/a
OS Compatibility	Microsoft Windows 11 (logo'd), Windows 10 IoT Enterprise, compatible with various Linux distros					Windows 11 Pro Standard included	Windows 11 Home Standard included	Windows 10 IoT Enterprise, compatible with various Linux distros	
What's needed	Memory, Storage, and Operating System					–		Memory, Storage, and Operating System	
Availability	3 year							5 year	

Intel® NUC 13 Pro

Intel® NUC 13 Pro Mini PCs, Kits and Boards

Processor

- Intel® Core™ i7-1370P processor
  Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 14 Processor Cores (6P+8E), 20 threads, 24MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 5.2GHz Turbo, E-Cores: Up to 3.9GHz Turbo)
- Intel® Core™ i7-1370PE processor
  Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 14 Processor Cores (6P+8E), 20 threads, 24MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 4.80 GHz Turbo, E-Cores: Up to 1.90 GHz Turbo)
- Intel® Core™ i7-1360P processor
  Intel® Iris® Xᵉ Graphics
  12 Processor Cores (4P+8E), 16 threads, 18MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 5.0 GHz Turbo, E-Cores: Up to 3.70 GHz Turbo
- Intel® Core™ i5-1350P processor
  Intel® Iris® Xe Graphics, Intel vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 4.70 GHz Turbo, E-Cores: Up to 3.50 GHz Turbo
- Intel® Core™ i5-1350PE processor
  Intel® Iris® Xᵉ Graphics, Intel vPro® Technology 12 Processor Cores (4P+8E), 16 threads, 12MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 4.60 GHz Turbo, E-Cores: Up to 3.40 GHz Turbo
- Intel® Core™ i5-1340P processor
  Intel® Iris® Xᵉ Graphics
  12 Processor Cores (4P+8E), 16 threads,12MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 4.60 GHz Turbo, E-Cores: Up to 3.40 GHz Turbo
- Intel® Core™ i5-1340PE processor
  Intel® Iris® Xᵉ Graphics
  12 Processor Cores (4P+8E), 16 threads,12MB Intel® Smart Cache, 35W TDP
  P-Cores: Up to 4.50 GHz Turbo, E-Cores: Up to 3.30 GHz Turbo
- Intel® Core™ i3-1315U processor
  6 Processor Cores (2P+4E), 8 threads, 10MB Intel® Smart Cache, 20W TDP
  P-Cores: Up to 4.50 GHz Turbo, E-Cores: Up to 3.30 GHz Turbo
- Intel® Core™ i3-1315UE processor
  6 Processor Cores (2P+4E), 8 threads, 10MB Intel® Smart Cache, 20W TDP
  P-Cores: Up to 4.50 GHz Turbo, E-Cores: Up to 3.30 GHz Turbo

Graphics

- For i7-1370P, Intel® Iris® Xᵉ Graphics 96EU, 1.50 GHz
- For i7-1370PE, Intel® Iris® Xᵉ Graphics 96EU, 1.40 GHz
- For i7-1360P, Intel® Iris® Xᵉ Graphics 96EU, 1.50 GHz
- For i5-1350P, Intel® Iris® Xᵉ Graphics 80EU, 1.50 GHz
- For i5-1350PE, Intel® Iris® Xᵉ Graphics 80EU, 1.40 GHz
- For i5-1340P, Intel® Iris® Xᵉ Graphics 80EU, 1.45 GHz
- For i5-1340PE, Intel® Iris® Xᵉ Graphics 80EU, 1.35 GHz
- For i3-1315U and i3-1315UE, Intel® UHD Graphics for 13th Gen Intel® processors

Storage Capabilities

- M.2 22x80 key M slot for PCIe x4 Gen4 NVMe SSD
- M.2 22x42 key B slot for PCIe x1 Gen3, USB 3.2 Gen2 and SATA SSD expandability

System Memory

- Dual-channel DDR4-3200 SODIMM slots, 1.2V, 64GB max

Connectivity

- 2x Thunderbolt™ 4 ports (incl. DisplayPort 2.1 and USB4) via back panel type C connectors
- 2x HDMI 2.1 TMDS Compatible (4K@60Hz), with built-in CEC per port
- 2x front and 1x rear USB 3.2 Gen2 type A ports
- 1x rear type A and 2x internal USB 2.0 headers
- Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
- All USB ports with individual USB power control
- Intel® i226 10/100/1000/2500 Mbps RJ45 Ethernet (i226-LM on vPro SKUs; i226-V on non-vPro SKUs) port
- Support for 2nd LAN (Intel® 2.5 GbE) and 2x additional USB 2.0 ports via internal expansion option (tall kits only)
- Intel® Wi-Fi 6E AX211 or AX210 (Gig+) (vPro & non-vPro) on M.2 slot, supporting 802.11ax and Bluetooth® 5.3 w/internal antennas
- 3.5mm front stereo headset jack

System BIOS

- 256Mb Flash EEPROM with Intel® BIOS based on Intel® Platform Innovation Framework for EFI Plug and Play
- Advanced configuration and power interface V5.0b, SMBIOS2.5

Hardware Management Features

- TDP settings for Core i5/i7 CPUs down configurable to 20W
- Voltage and temperature sensing

Chassis Expansion and Robustness

- Tall kits only: 2.5" drive bay (15mm SATA) and internal expansion bay via backpanel
- Matte Textured Chassis
- Replaceable lid
- Kensington lock with base security
- Cable locking arm
- VESA mounting plate included

Product Dimensions

- Board: 104 x 102 mm
- "K" chassis: 117 x 112 x 37 mm
- "H" chassis: 117 x 112 x 54 mm

Audio

- 3.5mm front stereo headset jack
- Up to 7.1 multichannel (or 8-channel) digital audio on HDMI and DP type C ports

Advanced Features

- 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

Operating System Compatibility

- Microsoft Windows* 11, Windows 10 (logo'd), Windows 10 IoT Enterprise
- Compatible with various Linux distros

Power Requirements

- 12 – 20VDC ±5% DC input on rear jack, internal 2x2 power connector, with OVP/UVP
- Power supply adapter (120W/20VDC for Core i7, i5; 90W/19VDC for Core i3) with geo-specific AC cord (IEC C5)

Environment Operating Temperature

- 0 C to +35 C
- Up to 40degC external ambient operating temperature tolerance

Storage Temperature

- -20 C to +60 C

Safety Regulations and Standards

- IEC/EN 60950-1
- IEC/EN/UL 62368-1

EMC/RF Regulations and Standards

- FCC Part 15B/15C/15E
- CISPR/EN 55032/55024
- ICES-003
- VCCI 32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301893
- EN 300 440
- EN 301489-1/3/17
- EN 62311
- AS/NZS 4268
- AS/NZS 2772.2
- ARPANSA

Environmental Regulations

- EU RoHS
- China RoHS
- Taiwan BSMI RoHS
- REACH

Energy Efficiency Regulations for Mini PCs

- US Energy Star and CEC
- EU ErP Directive
- China CEL
- South Korea E-standby
- Australia GEMS
- Israel Energy Source

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