

Intel® NUC 12 Pro X

Powering the Future of Business

Professional-grade performance for productivity, collaboration, content creation, and support for desktop discrete graphics.





Compact Workstation. Massive Performance.



Get ready for business at lightspeed.
The Intel® NUC 12 Pro X Kit is built for business with Intel vPro® Platform and high performing 12th Gen Intel® Core™ i9 and i7 processors.

Unlock incredible visuals with your choice of desktop discrete graphics—the latest PCIe 5.0 x16 slot supports up to 12-inch dual-slot GPUs for video editing, 3D design and other graphics heavy workloads.

At just 4.72" x 14", these are the most powerful Intel® NUCs available today, and they're backed by a three-year warranty from Intel. Flexibility is built in with the modular Intel® NUC 12 Pro X Compute Element and the ability to customize graphics, memory, storage, and OS so that you can upgrade performance while reducing e-waste. Upgradability includes up to 64GB dual-channel memory and up to three PCIe 4.0 SSDs. And every system comes with Intel® Wi-Fi 6E (Gig+) and 10GbE LAN for the fastest connectivity.

With massive performance in a surprisingly small footprint, Intel® NUC 12 Pro X gives business people everything they need to perform at their best.

Intel® NUC 12 Pro X
Small Size, Maximum
Business Performance

120 mm 4.7 in





197 mm 7.8 in

356 mm 14.0 in



Features

- Intel vPro® Enterprise featuring 12th Gen Intel® Core™ i9/i7 processors
- PCIe 5.0 x16 slot for add-in discrete graphics (up to 12" in length)
- Up to 64GB dual-channel DDR4-3200MHz SODIMMs (ECC RAM supported)
- 3x M.2 key M slots
- HDMI 2.0b connector
- 2x Thunderbolt[™] 4 ports
- 6x USB 3.1 Gen2 Type-A connectors
- Intel® Wi-Fi 6E AX211 (Gig+)
- 10Gb Ethernet port standard; and additional 2.5Gb Ethernet port on Intel® Core™ i9 processor SKUs
- Intel three-year warranty

Ideal for

Productivity
Content Creation
Workstation
Collaboration



Intel vPro® Built for Business

Intel® NUC 12 Pro X SKUs feature Intel vPro®
Enterprise for Windows with 12th Gen Intel® Core™
processors, delivering performance, security,
stability, and manageability features for managed
businesses of all sizes.





Revolutionary business performance

High-performance Intel vPro® Enterprise with 12th Gen Intel® Core™ i9/i7 processors is designed to amplify employee productivity with industry-leading performance tuned for the workloads and applications business professionals use most.



Comprehensive security

Minimize business risks with comprehensive, multilayer security designed for isolated work environments.



Enterprise-grade stability

Take advantage of hardware stability and enterprise-level validation of key hardware components.

Hardware-based remote management

Use an out-of-band connection that operates independently of the OS to manage desktops and laptops remotely—even if the computer is off, the operating system fails, or there's no hard drive present.

 Intel® Active Management Technology (Intel® AMT), part of Intel vPro, helps IT support a mobile workforce by bringing remote manageability where it is needed even for those working outside the corporate firewall.



Intel® Endpoint Management Assistant
 (Intel® EMA) allows IT to remotely and more
 securely manage Intel® AMT devices beyond
 the firewall via the cloud.

Remote management features only on Intel vPro Enterprise

With Intel® AMT for Intel vPro Enterprise, businesses can access the full suite of remote device management capabilities, including these new features that can be performed with a single out-of-band command via Intel® AMT and Intel® EMA.

- Intel® One-Click Recovery easily and inexpensively restores any Intel vPro device to a trusted or golden image remotely and securely, without an IT desk visit.
- Intel® Remote Platform Erase helps protect company assets and personal data by making it easy to clear all user and company data from Intel vPro devices before disposing, reselling, or returning

Intel vPro® and Intel® Core™ i9 and i7 processors

Intel® NUC 12 Pro X Kit



	Kits	
	NUC12DCMv9	NUC12DCMv7
Processor	12th Generation Core™ i9-12900 processor Up to 5.1GHz Turbo Boost Max 8P+8E cores, 24 threads, 30MB L3 Cache Intel vPro® Technology	12th Generation Core™ i7-12700 processor Up to 4.9GHz Turbo Boost Max 8P+4E cores, 20 threads, 25MB L3 Cache Intel vPro® Technology
Graphics	PCIe 5.0 x16 slot for add-in discrete graphics (up to 12") Intel® UHD Graphics 770 Up to 1.55 GHz	
Memory	Dual-channel DDR4-3200MHz SODIMMs, 1.2V, 64GB max (ECC RAM supported)	
Storage	3x M.2 key M slots: 1x 42/80 CPU-attached PCIe X4 Gen4 NVMe, 2x 42/80 PCH-attached PCIe x4 Gen4 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable Intel® Optane™ SSD and Intel® Optane™ Memory M10, H10, and H20 ready	
Other Features & Technology	1x HDMI 2.0b connector 2x Thunderbolt [™] 4 ports Supports 3 x 4K displays Intel® Wi-Fi 6E AX211 (Gig +), 802.11ax 2x2 2.4Gbps w/6GHz + Bluetooth® v5.2 dual internal antennas 6x USB 3.1 Gen2 Type-A connectors Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals 2x USB 3.1 headers 2x USB 2.0 headers	
Operating System	Not included. Microsoft Windows, compatible w/ Windows Server 2019; compatible w/ various Linux distros	



* Processor is pre-installed on Intel® NUC 12 Compute Element

Intel® NUC 12 Pro X

Additional Technical Specifications



Processor

- Intel vPro® Enterprise featuring 12th Gen Intel® Core™ i9-12900 processor Up to 5.1GHz Turbo Boost Max 8P+8E cores, 24 threads, 30MB L3 Cache
- Intel vPro® Enterprise featuring 12th Gen Intel® Core™ i7-12700 processor Up to 4.9GHz Turbo Boost Max, 8P+4E cores, 20 threads, 25MB L3 Cache

Graphics Options

- PCle 5.0 x16 slot
- Intel® UHD Graphics 770 Up to 1.55 GHz

Storage Capabilities

- 3x M.2 key M slots: 1x 42/80 CPU-attached PCIex4 Gen4 NVMe 2x 42/80 PCH-attached PCIe x 4 Gen4 NVMe or SATA3 SSD, RAID-0 and RAID-1 capable
- Intel® Optane™ SSD and Intel®
 Optane™ Memory M10, H10, and H20
 ready

System Memory

 Dual channel DDR4-3200MHz SODIMMs, 1.2V, 64GB max (ECC RAM supported)

Connectivity

- 1x HDMI 2.0b port
- 1x Mini DisplayPort 1.4 port
- 2x Thunderbolt[™] 4 ports (front and rear) with 5V/9V fast phone charging profiles
- Intel® Wi-Fi 6E AX211(Gig+), IEEE 802.11ax 2x2/Wi-Fi 6E AX211 (select SKUs) + Bluetooth® 5.2, with internal antennas
- 6x USB 3.1 Gen2 ports
- 10GbE port standard
- Intel® 2.5Gb (i225-LM) Ethernet port available on Intel® Core™ i9 processor SKUs
- SDXC slot with UHS-II support

System BIOS

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

Hardware Management Features

- Voltage and temperature sensing
- ACPI-compliant power management control

Expansion Capabilities

Two internal USB 2.0 headers

Audio

- Up to 7.1 multi-channel digital audio via HDMI or DisplayPort signals
- Operating System Compatibility
- Windows® 10
- Various Linux distros
- Environment Operating Temperature
- 0 C° to +35 C°

Storage Temperature

- -20°C to +60 C°
- Safety Regulations and Standards
- IEC/EN/UL 60950-1
- IEC/EN/UL 62368-1
- EMC/RF Regulations and Standards
- FCC Part 15B/15C/15E
- CISPR/EN 55032/55024
- ICES-003
- VCCI32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301893
- EN 300 440

- EN 301 489-1/3/17
- 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
- Japan Energy Saving Act 2022年度基準: 15区分,54.7kWh/年

Powering the Future of Business

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