intel® nuc

Intel® NUC 12 Pro X

Powering the Future of Business

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

intel. vPRO i9

intel. vPRO i7

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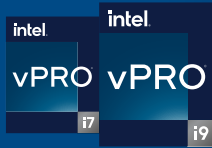
Intel® NUC 12 Pro X
Small Size, Maximum
Business Performance

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 Compute Element

Intel® NUC 12 Pro X
Additional Technical Specifications

intel. vPRO i9   **intel. vPRO i7**

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
- PCIe 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
- VCCI 32
- BSMI CNS 13438
- KN 32/35
- AS/NZS CISPR 32
- EN 300 328
- EN 301 893
- 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
www.intel.com/NUC

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