Intel® NUC 10 Performance

10th Generation Intel® Core™ i5-10210U
1.6 GHz – 4.2 GHz Turbo, 4 core, 8 thread, 6MB Cache,
25W Intel® UHD Graphics, 300 MHz – 1.1 GHz

- Dual channel DDR4-2666 SODIMMs, 1.2V, **64GB** maximum
- **M.2 22x42/80 key M** slot for PCIe x4 Gen3 NVMe or SATA3 SSD
- **Intel® Optane™ Memory M10 and H10** ready
- **HDMI 2.0a** port and **DisplayPort 1.2** via **Thunderbolt™ 3** / USB-C™ port
- **Supports 3 x 4K displays**
- **Intel® i219-V** 10/100/1000 Mbps Ethernet
- **Intel® Wi-Fi 6 AX201** 2x2 160MHz channels + **Bluetooth v5.1**, internal antennas
- Front **USB 3.1 Gen2** Type-C™ (**5V/9V** fast phone charging profiles) and type-A ports
- 2 x rear **USB 3.1 Gen2**, and 2 x internal USB 2.0 via header
- Front Consumer Infrared port
- SDXC slot with **UHS-II** support
- Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals
- Plastic with metal inner frame, replaceable lid, Kensington lock with base security
- "Tall" H chassis: 117 x 112 x 51 mm, w/ **2.5" 7mm SATA3 bay and port**
- 19V$_{DC}$ input, **90W** power supply with geo-specific C5 AC cords
- Front Panel, CEC, RGB LED, 2 x USB2.0 headers
- Front panel status RGB LED
- Microsoft Windows* 10 logo'd, compatible with various Linux distros
- VESA mounting plate included in kit SKUs only
- Individual retail packaging
- **Three-year Warranty**

4.4 in
112 mm

4.6 in
117 mm

2.0 in
51 mm

Available SKUs	Mini PC

intel® NUC

Intel® NUC 10 Performance

UNLEASH YOUR INNER CREATOR.

Experience the new size of powerful.

intel CORE i3 10TH GEN

intel CORE i7 10TH GEN

intel CORE i5 10TH GEN

CREATE.
CONSUME.
REPEAT.

Featuring the power of 10th generation Intel® Core™ processors, the Intel® NUC 10 Performance has the power to create content as well as consume it. Record and mix music, add animation effects to your video edits, or over-binge your favorite shows in stunning ultra high-def 4K. Whatever it is, this Intel NUC brings full-size PC performance at a size small enough to fit in the palm of your hand.

Available with a choice of hard drive configurations to meet your speed and storage needs, the NUC 10 Performance has the ports to connect every last peripheral and keep your data moving at top speed. And with triple display support, you can multitask across multiple screens and give your brilliance room to spread out.

Intel® NUC 10 Performance:
A Workhorse for a Range of Needs

2X BETTER OVERALL PERFORMANCE[1]

3X FASTER WIRELESS SPEEDS[2]

8X MORE BANDWIDTH WITH THUNDERBOLT 3[3]

FEATURES

- 10th generation Intel® Core™ processors
- HDMI 2.0
- Thunderbolt™ 3
- Support for three 4K displays[4]
- Four USB 3.1 ports
- Intel® WiFi 6
- Bluetooth
- Intel® Gigabit LAN
- SDXC slot with UHS-II support
- 3-year limited warranty

USAGES
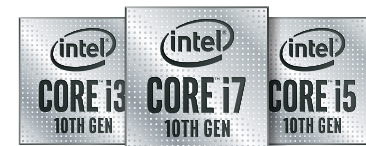
- Home theater
- Home office productivity
- Casual gaming

AVAILABLE SKUs

- Intel® NUC Kit

INTEL® NUC 10 PERFORMANCE KITS
Built with 10th generation Intel® Core™ processors

		Intel® Core™ i5 Processor		
		NUC10i5FNHN		
Processor		10th Generation Intel® Core™ i5-10210U Processor 1.6 GHz – 4.2 GHz Turbo, 4 core, 8 thread, 6 MB Cache, 25W		
Graphics		Intel® UHD Graphics, 300 MHz – 1.1 GHz		
Memory		Dual-channel DDR4 SODIMM slots		
Storage		M.2 22x42/80 slot, 2.5" 7mm SATA drive bay		
Other Features & Technology	HDMI 2.0a, Thunderbolt™ 3, Front USB 3.1 Gen2 Type-C Port (fast charging), 2 USB 3.1 Gen2 Ports, Intel® WiFi 6 and Bluetooth v5, Intel® Gigabit LAN, SDXC Card Slot, Consumer Infrared Sensor, Kensington Lock Ready, 3-Year Limited Warranty			
Geo-Specific Power Cord		US, EU, AU, IN, CN, or No Cord Option		
Operating System		Not Included		
What's Needed		Memory, Storage, Operating System See page 4 for details		

INTEL® NUC 10 PERFORMANCE KITS

Additional Technical Specifications

Processors

- NUC10i5FN
- Intel® Core™ i5-10210U (1.6 GHz – 4.2 GHz Turbo, 4 core, 8 thread, 6 MB Cache, 25W) NUC10i3FN
- Intel® Core™ i3-10110U (2.1 GHz – 4.1 GHz Turbo, 2 core, 4 thread, 4 MB Cache, 25W)

NUC10i5FNHN

- M.2 22x42/80 key M slot for PCIe x4 Gen3 NVMe/AHCI or SATA3 SSD
- SATA3 SSD, 2.5" 7mm SATA3 bay and port
- Full-size SDXC UHS-II slot

System Memory

- Two DDR4 SODIMM sockets (Dual channel DDR4-2666 SODIMMs, 1.2V, 64 GB max)

Connectivity

- HDMI 2.0a port
- Thunderbolt™ 3 port
- Intel® WiFi 6 AX200 2x2
- Bluetooth v5

- Front: USB 3.1 Gen2 Type-C port with 5V/9V fast phone charging profile
- Front: USB 3.1 Gen2 Type-A port
- Back: Two USB 3.1 Gen2 ports
- Intel® i219-V 10/100/1000 Mbps Ethernet

System BIOS

- 256 Mb 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

- 2x internal USB 2.0 headers

Audio

- Up to 7.1 multichannel digital audio via HDMI or Thunderbolt 3

Chassis Size

Tall "H" Chassis
- 4.60" x 4.40" x 2.00"
- 117 mm x 112 mm x 51 mm

Slim "K" Chassis
- 4.60" x 4.40" x 1.50"
- 117 mm x 112 mm x 38 mm

Power Requirements

- 19V_DC 120W (NUC10i7FN models only), or 90W power supply, with geo-specific AC cords

Environment Operating Temperature

- 0° C to +35 C

Storage Temperature

- -20° C to +40° C

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[1] Over 2X Better Performance Vs. 5yo Laptop as measured by SYSmark* 2018 Overall Score. Intel Preproduction Processor: Intel® Core™ i7 -10710U processor (CML-U 6+2) PL1=25W, 6C12T, Turbo up to 4.7GHz, Memory: 2x16GB DDR4-2667 2Rx8, Storage: Intel® 760p M.2 PCIe* NVMe* SSD with AHCI Microsoft driver*, Display Resolution: 3840x2160 eDP Panel 12.5", OS: Windows* 10 19H1-18362.ent.rx64-Appx59. Power policy set to AC/Balanced mode for all benchmarks except SYSmark* 2014 SE which is measured in AC/BAPCo mode for Performance. Power policy set to DC/Balanced mode for power. All benchmarks run in Admin mode & Tamper Protection Disabled / Defender Disabled, Graphics driver: PROD-HC-RELEASES-GFX-DRIVER-CI-MASTER-2334-REVENUE-PR-1006952-WHQl.vs Processor: Intel® Core™ i7-5550U processor CPU @ 2.00GHz PL1=15W, Memory: 2 x 8 GB DDR3-1600, Storage: INTEL 545s 512GB SSDSC2KW512G8, Display Resolution: 1920 x 1080, OS: Microsoft Windows* 10 Enterprise 44.18362.1.0. Power policy set to AC/Balanced mode for all benchmarks except SYSmark* 2014 SE which is measured in AC/BAPCo mode for Performance. Power policy set to DC/Balanced mode for power with UX Slider set to Better Performance. All benchmarks run in Admin mode & Tamper Protection Disabled / Defender Disabled, Graphics driver: 20.19.15.5058.

[2] Nearly 3x Wireless Speeds: 802.11ax 2x2 160MHz enables 2402Mbps maximum theoretical data rates, ~3X (2.8X) faster than standard 802.11ac 2x2 80MHz (867Mbps) as documented in IEEE 802.11 wireless standard specifications and require the use of similarly configured 802.11ax wireless network routers.

[3] 8X more bandwidth with Thunderbolt 3™ than USB 3.0: Data transfer rates, different from total available bandwidth for data and display traffic, depend on system configuration. 8X improvement over USB 3.0 refers to total available bandwidth for data and display, not data transfer rates. Data transfer rates depend on system configuration.

[4] USB-C to dual mini DisplayPort splitter required.

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