



Intel® NUC 10 Performance

# UNLEASH YOUR INNER CREATOR.

Experience the new size of powerful.



# 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 Mini PC 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<sup>1</sup>

**3X** FASTER  
WIRELESS  
SPEEDS<sup>2</sup>

**8X** MORE  
BANDWIDTH WITH  
THUNDERBOLT 3<sup>3</sup>

## FEATURES

- 10th generation Intel® Core™ processors
- HDMI\* 2.0
- Thunderbolt™ 3
- Support for three 4K60 displays<sup>4</sup>
- 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 Mini PC
- Intel® NUC Kit



# INTEL® NUC 10 PERFORMANCE MINI PCS AND KITS

Built with 10th generation Intel® Core™ i7 processors



	Kits		Mini PCs				
	NUC10i7FNH	NUC10i7FNK	NUC10i7FNHA	NUC10i7FNHJA	NUC10i7FNKPA	NUC10i7FNHC	NUC10i7FNKP
<b>Processor</b>	10th Generation Intel® Core™ i7-10710U Processor 1.1 GHz – 4.7 GHz Turbo, 6 core, 12 thread, 12 MB Cache, 25W						
<b>Graphics</b>	Intel® UHD Graphics, 300 MHz – 1.15 GHz						
<b>Memory</b>	Dual-channel DDR4 SODIMM slots		16 GB Dual-channel DDR4-2666	8 GB Dual-channel DDR4-2666			
<b>Storage</b>	M.2 22x42/80 slot, 2.5" 7mm SATA drive bay	M.2 22x42/80 slot	256 GB NVMe SSD, 1 TB SATA3 HDD	16 GB Intel® Optane™ Memory, 1 TB SATA3 HDD	256 GB NVMe SSD	256 GB NVMe SSD, 1 TB SATA3 HDD	256 GB NVMe SSD
<b>Other Features &amp; Technology</b>	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						
<b>Geo-Specific Power Cord</b>	US, EU, UK, AU, CN or No Cord Option	US, EU	US	US, EU, UK, AU, or No Cord Option	EU	CN	
<b>Operating System</b>	Not Included		Windows® 10 Home				Not Included
<b>What's Needed</b>	Memory, Storage, Operating System See page 6 for details		—	—	—	Operating System	

# INTEL® NUC 10 PERFORMANCE MINI PCS AND KITS

Built with 10th generation Intel® Core™ i5 processors



	Kits		Mini PCs					
	NUC10i5FNH	NUC10i5FNK	NUC10i5FNHJ	NUC10i5FNHJA	NUC10i5FNHCA	NUC10i5FNKPA	NUC10i5FNHF	NUC10i5FNKP
<b>Processor</b>	10th Generation Intel® Core™ i5-10210U Processor 1.6 GHz – 4.2 GHz Turbo, 4 core, 8 thread, 6 MB Cache, 25W							
<b>Graphics</b>	Intel® UHD Graphics, 300 MHz – 1.1 GHz							
<b>Memory</b>	Dual-channel DDR4 SODIMM slots		8 GB Dual-channel DDR4-2666			4 GB Dual-channel DDR4-2666	8 GB Dual-channel DDR4-2666	
<b>Storage</b>	M.2 22x42/80 slot, 2.5" 7mm SATA drive bay	M.2 22x42/80 slot	16 GB Intel® Optane™ Memory 1 TB SATA3 HDD		256 GB NVMe SSD, 1 TB SATA3 HDD	256 GB NVMe SSD	16 GB Intel® Optane™ Memory, 1 TB SATA3 HDD	256 GB NVMe SSD
<b>Other Features &amp; Technology</b>	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							
<b>Geo-Specific Power Cord</b>	US, EU, UK, AU, CN or No Cord Option	US, EU, UK, AU, or No Cord Option	Not Included	US, EU, UK, AU, or No Cord Option	US	EU, UK	CN	
<b>Operating System</b>	Not Included		Not Included	Windows® 10 Home			Not Included	
<b>What's Needed</b>	Memory, Storage, Operating System See page 6 for details		Operating System, Power Cord		—		Operating System	

# INTEL® NUC 10 PERFORMANCE MINI PCS AND KITS

Built with 10th generation Intel® Core™ i3 processors



	Kits		Mini PCs		
	NUC10i3FNH	NUC10i3FNK	NUC10i3FNHJA	NUC10i3FNHFA	NUC10i3FNHF
<b>Processor</b>	10th Generation Intel® Core™ i3-10110U Processor 2.1 GHz – 4.1 GHz Turbo, 2 core, 4 thread, 4 MB Cache, 25W				
<b>Graphics</b>	Intel® UHD Graphics, 300 MHz – 1.0 GHz				
<b>Memory</b>	Dual-channel DDR4 SODIMM slots		8 GB Dual-channel DDR4-2666	4 GB Dual-channel DDR4-2666	
<b>Storage</b>	M.2 22x42/80 slot, 2.5" 7mm SATA drive bay	M.2 22x42/80 slot	16 GB Intel® Optane™ Memory, 1 TB SATA3 HDD		
<b>Other Features &amp; Technology</b>	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				
<b>Geo-Specific Power Cord</b>	US, EU, UK, AU, CN or No Cord Option	EU, UK, AU, or No Cord Option	US	EU, UK, AU, or No Cord Option	CN
<b>Operating System</b>	Not Included		Windows® 10 Home		Not Included
<b>What's Needed</b>	Memory, Storage, Operating System See page 6 for details		—		Operating System

# INTEL® NUC 10 PERFORMANCE MINI PCS AND KITS

## Additional Technical Specifications

### Processors

#### NUC10i7FN

- Intel® Core™ i7-10710U (1.1 GHz – 4.7 GHz Turbo, 6 core, 12 thread, 12 MB Cache, 25W)

#### 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)

### Storage Capabilities

#### NUC10i7FNK, NUC10i5FNK, & NUC10i3FNK

- M.2 22x42/80 key M slot for PCIe\* x4 Gen3 NVMe/AHCI or SATA3 SSD
- Full-size SDXC UHS-II slot

#### NUC10i7FNH, NUC10i5FNH, & NUC10i3FNH

- 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
- 3.5 mm stereo headset jack
- Beam-forming, far-field, quad-mic array

### 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<sub>DC</sub> 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

### 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

The Power of Small  
[www.intel.com/NUC](http://www.intel.com/NUC)

<sup>1</sup> 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-WHQI.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.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> USB-C to dual mini DisplayPort splitter required.

