intel nuc
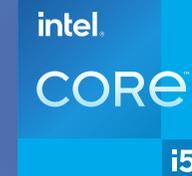
Bend the Rules of Gaming

Intel® NUC 12 Enthusiast Mini PCs and Kits deliver game-changing performance in a super-small, sleek chassis.

Intel® NUC 12 Enthusiast Mini PCs and Kits

intel CORE i7

intel CORE i5

intel ARC GRAPHICS

Play Without Limits

Intel® NUC 12 Enthusiast Mini PCs and Kits deliver all the performance, ports, and innovative capabilities gamers need in an ultra-small design, backed by a three-year Intel warranty.

With the new performance hybrid architecture of **12th Gen Intel® Core™ processors**, gamers have the freedom to chat, browse, stream, edit, record, and play without skipping a beat. Plus, **Intel® Arc™ graphics** bring supercharged gaming performance with a new microarchitecture optimized for gaming and the latest visual technologies, including AI-enhanced upscaling, real-time ray tracing, and full support for DirectX 12 Ultimate.

Every system also supports up to 64GB dual-channel DDR4 memory, three M.2 PCIe slots—including two Gen4 slots—and the latest in wireless connectivity with Intel® Killer™ Wi-Fi 6E, and Bluetooth® 5.2. Dream set-ups are made easy with horizontal or vertical placement and fast connections via two Thunderbolt™ 4 ports and six USB 3.2 Gen2 ports.

Intel® NUC 12 Enthusiast:

Game Changer. Space Saver.

Features

- 12th Gen Intel® Core™ i7/i5 processors
- Intel® Arc™ 7 and 5 graphics
- Size: 230 x 180 x 60 mm
    9.1 x 7.1 x 2.4 in
- 2x M.2 22x80 PCIe x4 Gen4 NVMe and 1x M.2 22x80 PCIe x4 Gen3 NVMe or SATA3 SSD
- Intel® Optane™ Memory M10, H10, and H20 ready
- Intel® Killer™ Wi-Fi 6E AX1690 i and Bluetooth® 5.2
- Intel® 2.5GbE port
- 2x Thunderbolt™ 4 ports (front and rear) with 5V/9V fast phone charging profiles
- 6x USB 3.2 Gen2 ports (2 front, 4 rear)
- 330W power supply
- RGB-backlit top logo with user-replaceable mask
- Position vertically or horizontally (vertical stand included)
- Intel three-year warranty

Ideal for Gaming

Built with Intel® Core™ i7 processors
Intel® NUC 12 Enthusiast Mini PC

	Mini PC
	NUC12SNKi73
Processor	12th Gen Intel® Core™ i7-12700H Up to 4.7 GHz Turbo Max, 6P + 8E cores, 20 threads, 24MB Intel® Smart Cache Intel® Iris™ Xe Graphics eligible, up to 1.40GHz
Discrete Graphics	Intel® Arc™ A730M Graphics 12GB GDDR6 VRAM
Memory	16GB (2x 8GB) DDR4-3200MHz
Storage	512GB Gen4 NVMe SSD
Other Features & Technology	1x HDMI 2.1 TMDS Compatible port | 2x DisplayPort 2.0 (1.4 certified) ports | 2x Thunderbolt™ 4 ports (fast charging) Intel® 2.5Gb Ethernet port | Intel® Killer™ Wi-Fi 6E AX1690 i and Bluetooth® 5.2 | 6x USB 3.2 Gen2 ports SDXC slot with UHS-II support | Beam-forming, dual-mic array | Front Consumer Infrared (CIR) port | RGB backlit top lid skull logo with user-replaceable mask | Kensington lock ready | 3-Year limited warranty
Geo-Specific Power Cord	US, US (WW)
Operating System	Windows 11 Home
What's Needed	—

Built with Intel® Core™ i7 and i5 processors

Intel® NUC 12 Enthusiast Kits

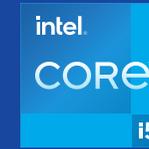|	Kits		
	NUC12SNKi72	**NUC12SNKi73**	**NUC12SNKi54**
Processor	12th Gen Intel® Core™ i7-12700H Up to 4.7 GHz Turbo Max, 6P + 8E cores, 20 threads, 24MB Intel® Smart Cache Intel® Iris™ Xᵉ Graphics eligible, up to 1.40GHz		12th Gen Intel® Core™ i7-12700H Up to 4.7 GHz Turbo Max, 6P + 8E cores, 20 threads, 18MB Intel® Smart Cache Intel® Iris™ Xᵉ Graphics eligible, up to 1.30GHz
Discrete Graphics	Intel® Arc™ A770M Graphics 16GB GDDR6 VRAM	Intel® Arc™ A730M Graphics 12GB GDDR6 VRAM	Intel® Arc™ A550M Graphics 8GB GDDR6 VRAM
Memory	Dual-channel DDR4-3200MHz SODIMM slots		
Storage	2x M.2 PCIe x4 Gen4 NVMe SSD slots, 1x M.2 PCIe x4 Gen3 NVMe or SATA3 SSD slot		
Other Features & Technology	1x HDMI 2.1 TMDS Compatible port | 2x DisplayPort 2.0 (1.4 certified) ports | 2x Thunderbolt™ 4 ports (fast charging) Intel® 2.5Gb Ethernet port | Intel® Killer™ Wi-Fi 6E AX1690 i and Bluetooth® 5.2 | 6x USB 3.2 Gen2 ports SDXC slot with UHS-II support | Beam-forming, dual-mic array | Front Consumer Infrared (CIR) port | RGB backlit top lid skull logo with user-replaceable mask | Kensington lock ready | 3-Year limited warranty		
Geo-Specific Power Cord	US, US (WW), EU, AU, CN or No Cord Option	US, US (WW), EU, AU, CN, or No Cord Option	US, US (WW), EU, CN, or No Cord Option
Operating System	Windows 11 certified, compatible with various Linux distros		
What's Needed	Memory, Storage, Operating System		

Intel® NUC 12 Enthusiast Mini PC and Kit
Additional Technical Specifications

intel. CORE i7 intel. CORE i5 intel ARC GRAPHICS

Processors

- 12th Gen Intel®Core™ i7-12700H
  Up to 4.7 GHz Turbo Max, 6P + 8E cores,
  20 threads, 24MB Intel® Smart Cache
  Intel® Iris® Xe Graphics eligible, up to 1.4 GHz
- 12th Gen Intel®Core™ i5-12500H
  Up to 4.5 GHz Turbo Max, 4P + 8E cores,
  16 threads, 18MB Intel® Smart Cache
  Intel® Iris® Xe Graphics eligible,
  up to 1.3 GHz

Discrete Graphics Options

- Intel® Arc™ A770M Graphics
  16GB GDDR6 VRAM
- Intel® Arc™ A730M Graphics
  12GB GDDR6 VRAM
- Intel® Arc™ A550M Graphics
  8GB GDDR6 VRAM

Storage Capabilities

- 2x M.2 PCIe x4 Gen4 NVMe SSD slots
- 1x M.2 PCIe x4 Gen3 NVMe or SATA3 SSD slot
- Intel® Optane™ Memory M10, H10, and H20 ready

System Memory

- Dual channel DDR4-3200MHz SODIMMs,
  1.2V, 64GB max

Connectivity

- 1x HDMI 2.1 TMDS Compatible port
- 2x DisplayPort 2.0 (1.4 certified) ports
- 2x Thunderbolt™ 4 ports (fast charging)
- Intel® 2.5 Gb (i225-LM) Ethernet port
- Intel® Killer™ Wi-Fi 6E AX1690 i and
  Bluetooth® 5.2
- 6x USB 3.2 Gen2 ports
- 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
  V5.0, SMBIOS3.4
- Intel® BIOS
- Intel® Express BIOS update support

Hardware Management Features

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

Expansion Capabilities

- 2x USB 2.0 via internal Common I/O Header

Audio

- Up to 7.1 multichannel digital audio via
  HDMI or DisplayPort signals
- 3.5 mm front stereo headset jack
- 3.5 mm rear speaker/TOSLINK combo jack
- Beam-forming, far-field, dual-mic array
- Front Consumer Infrared (CIR) port

Operating System Compatibility

- Windows 11 Certified
- Compatible with various Linux distros
- Mini PC SKU: Windows 11 Home

Chassis Features and Size

- Plastic with metal inner frame, Kensington
  lock ready with base security
- RGB-backlit top lid skull logo with
  user-replaceable mask
- Vertical stand included
- 9.1" x 7.1" x 2.4"
- 230 mm x 180 mm x 60 mm

Power Requirements

- 19.5 V_{DC} 330W power supply with geo-
  specific C13 AC cords

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 55032/55035
- ICES-0003
- VCCI CISPR 32
- BSMI CNS 13438
- KS C 9832/9835
- AS/NZS CISPR 32
- EN 300 328
- EN 301 893
- EN 300 440
- EN 301 489-1/17
- 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

Level up your gaming
www.intel.com/NUCgaming

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