

intel
nuc

Max Creativity.
Mini Footprint.

Small and sleek Intel® NUC 12 Enthusiast Mini PCs and Kits elevate creativity with a powerful combination of a 12th Gen Intel® Core™ processor and an Intel® Arc™ discrete graphics.

Intel® NUC 12
Enthusiast Mini PCs
and Kits



intel.
CORE™
i7

intel.
ARC™
GRAPHICS

Built for creators



Step into next-gen content creation with ultrasmall and versatile Intel® NUC 12 Enthusiast Mini PCs and Kits—the first Intel® NUC Mini PCs to feature Intel® Arc™ discrete graphics.

Performance starts with an Intel® Core™ i7-12700H processor and the new innovative performance hybrid architecture that delivers power and efficiency to stream, edit, record, browse, and play without skipping a beat.

Intel® Arc™ discrete graphics offer a host of features to accelerate intense creative workflows, now and in the future. In addition to being the world's first GPUs to support hardware-accelerated encoding for AV1, Intel Arc GPUs feature AI accelerators, real-time ray tracing, and Intel® Deep Link technology that harnesses the full power of the CPU and GPU to accelerate compute-intensive tasks.

Every system 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 setups 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:
Powering the
Future of Creativity



Ideal for
Content Creators

Features

- 12th Gen Intel® Core™ i7-12700H processor
- Intel® Arc™ A770M 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® Killer™ Wi-Fi 6E AX1690i and Bluetooth® 5.2
- Intel® 2.5GbE port
- 2x Thunderbolt™ 4 ports (1x front, 1x rear)
6x USB 3.2 Gen2 ports (2x front, 4x rear)
- 330W power supply
- RGB-backlit top logo with user-replaceable mask
- Vertical or horizontal orientation (vertical stand included)
- Intel three-year warranty

Built with Intel® Core™ i7 processor

Intel® NUC12 Enthusiast Mini PC



Intel® NUC12 Enthusiast Mini PC	
NUC12SNKi72	
Processor	Intel® Core™ i7-12700H processor Up to 4.7 GHz Intel® Turbo Boost Max Technology 3.0 Frequency, 6P + 8E cores, 20 threads, 24MB Intel® Smart Cache, Intel® Iris™ X ^e Graphics eligible, up to 1.40GHz
Discrete graphics	Intel® Arc™ A770M Graphics 16GB GDDR6 VRAM
Memory	16GB (2x 8GB) DDR4-3200MHz
Storage	1TB PCIe Gen4 NVMe SSD
Other features & technologies	1x HDMI 2.1TMDS Compatible port (4K60) 2x DisplayPort 2.0 (1.4 certified) ports 2x Thunderbolt™ 4/USB4 Type-C ports Intel® 2.5Gb Ethernet port Intel® Killer™ Wi-Fi 6E AX1690i 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
Operating system	Windows 11 Home pre-installed
What's needed	—



Built with Intel® Core™ i7 processor

Intel® NUC 12 Enthusiast Kit



Intel® NUC 12 Enthusiast Kit

NUC12SNKi72

Processor	Intel® Core™ i7-12700H processor Up to 4.7 GHz Intel® Turbo Boost Max Technology 3.0 Frequency, 6P + 8E cores, 20 threads, 24MB Intel® Smart Cache, Intel® Iris™ Xe Graphics eligible, up to 1.40GHz
Discrete graphics	Intel® Arc™ A770M Graphics 16GB 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 (4K60) 2x DisplayPort 2.0 (1.4 certified) ports 2x Thunderbolt™ 4 / USB4 Type-C ports Intel® 2.5Gb Ethernet port Intel® Killer™ Wi-Fi 6E AX1690i 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, EU, AU, CN or No Cord option
Operating system	Windows 11 (logo'd), compatible with various Linux distros
What's needed	Memory, Storage, Operating system



Intel® NUC 12 Enthusiast Mini PC and Kit

Additional technical specifications



Processor

- Intel® Core™ i7-12700H processor
Up to 4.7 GHz Intel® Turbo Boost Max Technology 3.0 Frequency, 6P + 8E cores, 20 threads, 24MB Intel® Smart Cache
Intel® Iris® X^e Graphics eligible, up to 1.4 GHz

Discrete Graphics

- Intel® Arc™ A770M Graphics
16GB GDDR6 VRAM

Storage Capabilities

- 2x M.2 PCIe x4 Gen4 NVMe SSD slots
- 1x M.2 PCIe x4 Gen3 NVMe or SATA3 SSD slot

System Memory

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

Connectivity

- 1x HDMI 2.1 TMDS Compatible port (4K60)
- 2x DisplayPort 2.0 (1.4 certified) ports
- Thunderbolt™ 4 / USB4 Type-C ports
- Intel® 2.5 Gb (i225-LM) Ethernet port
- Intel® Killer™ Wi-Fi 6E AX1690i 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 (log'o'd)
- Compatible with various Linux distros
- Mini PC SKU: Windows 11 Home pre-installed

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
- Japan Energy Saving Act 2022
年度基準: 15区分, 80.3kWh/年

The power of small
www.intel.com/NUC

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Actual Intel® NUC Mini PC or Kit may differ from the image shown.

Intel offers three-year limited warranties on Intel® NUC products purchased from Intel® Authorized Distributors. This warranty covers all hardware items included in the box.

Intel technologies may require enabled hardware, software or service activation.

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