



Intel® NUC 12 Pro Kit NUC12WSKi7

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Essentials

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Essentials

Product Collection

Code Name

Marketing Status

Launch Date [🔗](#)

Expected Discontinuance [🔗](#)

Supported Operating Systems

Board Number

Board Form Factor

Socket

Internal Drive Form Factor

of Internal Drives Supported

TDP [🔗](#)

DC Input Voltage Supported

Recommended Customer Price [🔗](#)

Processor Included

Total Cores [🔗](#)

Total Threads [🔗](#)

Lithography [🔗](#)

Max Turbo Frequency [🔗](#)

Intel® NUC Kit with 12th Generation Intel® Core™ Processors

[Products formerly Wall Street Canyon](#)

Launched

Q3'22

1H'25

Windows 11 Home*, Windows 11 Pro*, Windows 10 Home*, Windows 10 IoT Enterprise*, Windows 10 Pro*, Red Hat Linux*, Ubuntu 20.04 LTS*

NUC12WSBi7

UCFF (4" x 4")

Soldered-down BGA

M.2 SSD

2

35 W

12-20 VDC

\$649.70 - \$652.17

[Intel® Core™ i7-1260P Processor \(18M Cache, up to 4.70 GHz\)](#)

12

16

Intel 7

4.70 GHz

Supplemental Information

Embedded Options Available [🔗](#)

No

Memory & Storage

Max Memory Size (dependent on memory type) [🔗](#)

64 GB

Memory Types [🔗](#)

DDR4-3200 1.2V SODIMMs

Max # of Memory Channels [🔗](#)

2

Max # of DIMMs [🔗](#)

2

ECC Memory Supported [†] [🔗](#)

No

Processor Graphics

Integrated Graphics [†] [🔗](#)

Yes

Graphics Output [🔗](#)

2x HDMI 2.1 TMDS Compatible, 2x DP 1.4a via Type C

of Displays Supported [†]

4

Expansion Options

PCI Express Revision [🔗](#)

Gen 4 (m.2 22x80 slot); Gen 3 (otherwise)

PCI Express Configurations [†] [🔗](#)

PCIe x4 Gen 4: M.2 22x80 (key M)
PCIe x1 Gen 3: M.2 22x42 (key B)
PCIe x1: M.2 22x30 (key E)

M.2 Card Slot (wireless) [🔗](#)

22x30 (E)

M.2 Card Slot (storage) [🔗](#)

22x80 NVMe (M); 22x42 SATA (B)

I/O Specifications

of USB Ports

4

USB Configuration

Front: 2x USB 3.2
Rear: 2x USB 4 (type C), 1x USB 3.2, 1x USB 2.0
Internal: 1x USB 3.2 on m.2 22x42 (pins), 2x USB 2.0 (headers)

Serial Port via Internal Header

No

Audio (back channel + front channel)

Front panel: 3.5mm headphone/mic jack

Integrated LAN [🔗](#)

Intel® Ethernet Controller i225-V

Integrated Wireless[‡]

Intel® Wi-Fi 6E AX211(Gig+)

Integrated Bluetooth

Yes

Additional Headers [🔗](#)

Front_panel (PWR, RST, 5V, 5Vsby, 3.3Vsby); Internal 2x2 power connector

of Thunderbolt™ Ports [🔗](#)

2x Thunderbolt™ 4

Package Specifications

Chassis Dimensions

117 x 112 x 37 [mm] (LxWxH)

Advanced Technologies

Intel® Optane™ Memory Supported [†] [🔗](#)

No

Intel® Virtualization Technology for Directed I/O (VT-d) [†] [🔗](#)

Yes

Intel® ME Firmware Version [🔗](#)

16

Intel® HD Audio Technology [🔗](#)

Yes

Intel® Virtualization Technology (VT-x) [†] [🔗](#)

Yes

Intel® Platform Trust Technology (Intel® PTT) [🔗](#)

Yes

Security & Reliability

Intel® AES New Instructions [🔗](#)

Yes

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

Announced SKUs are not yet available. Please refer to the Launch Date for market availability.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

Retail prices reported as of 05 Jan 2023 03:25:10 GMT

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