



Intel® NUC 12 Pro Kit NUC12WSHi3

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Specifications

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Essentials

[Supplemental Information](#)
[Memory & Storage](#)
[Processor Graphics](#)
[Expansion Options](#)
[I/O Specifications](#)
[Package Specifications](#)
[Advanced Technologies](#)
[Security & Reliability](#)

Product Collection	Intel® NUC Kit with 12th Generation Intel® Core™ Processors
Code Name	Products formerly Wall Street Canyon
Status	Launched
Launch Date ?	Q3'22
Expected Discontinuance ?	1H'25
Supported Operating Systems	Windows 11 Home*, Windows 11 Pro*, Windows 10 Home*, Windows 10 IoT Enterprise*, Windows 10 Pro*, Red Hat Linux*, Ubuntu 20.04 LTS*
Board Number	NUC12WSBi3
Board Form Factor	UCFF (4" x 4")
Socket	Soldered-down BGA
Internal Drive Form Factor	M.2 and 2.5" Drive
# of Internal Drives Supported	3
TDP ?	20 W
DC Input Voltage Supported	12-20 VDC
Recommended Customer Price ?	\$364.23 - \$366.69
Processor Included	Intel® Core™ i3-1220P Processor (12M Cache, up to 4.40 GHz)
Total Cores ?	10
Total Threads ?	12
Lithography ?	Intel 7
Max Turbo Frequency ?	4.40 GHz

Supplemental Information

Embedded Options Available ?	No
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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 ¹ ?	No

Processor Graphics

Integrated Graphics ¹ ?	Yes
Graphics Output ?	2x HDMI 2.1 TMDS Compatible, 2x DP 1.4a via Type C
# of Displays Supported ¹	4

Expansion Options

PCI Express Revision ?	Gen 4 (m.2 22x80 slot); Gen 3 (otherwise)
PCI Express Configurations ¹ ?	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)
Total # of SATA Ports ?	1
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 ¹	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 54 [mm] (LxWxH)
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Advanced Technologies

Intel® Optane™ Memory Supported ¹ ?	No
Intel® Virtualization Technology for Directed I/O (VT-d) ¹ ?	Yes
Intel® ME Firmware Version ?	16
Intel® HD Audio Technology ?	Yes
Intel® Virtualization Technology (VT-x) ¹ ?	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.

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