



Intel® NUC 12 Pro Kit NUC12WSKv7

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Essentials	Download Specifications ↓	
Supplemental Information	Product Collection	Intel® NUC Kit with 12th Generation Intel® Core™ Processors
Memory & Storage	Code Name	Products formerly Wall Street Canyon
Processor Graphics	Marketing Status	Launched
Expansion Options	Launch Date 	Q3'22
I/O Specifications	Expected Discontinuance 	1H'25
Package Specifications	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*
Advanced Technologies	Board Number	NUC12WSBv7
Security & Reliability	Board Form Factor	UCFF (4" x 4")
	Socket	Soldered-down BGA
	Internal Drive Form Factor	M.2 SSD
	# of Internal Drives Supported	2
	TDP 	35 W
	DC Input Voltage Supported	12-20 VDC
	Recommended Customer Price 	\$750.61 - \$753.07
	Processor Included	Intel® Core™ i7-1270P Processor (18M Cache, up to 4.80 GHz)
	Intel vPro® Platform Eligibility [†] 	Yes
	Total Cores 	12
	Total Threads 	16
	Lithography 	Intel 7
	Max Turbo Frequency 	4.80 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-LM
	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 vPro® Platform Eligibility [†] 	Yes
	Intel® ME Firmware Version 	16
	TPM 	Yes
	TPM Version 	2.0
	Intel® HD Audio Technology 	Yes
	Intel® Virtualization Technology (VT-x) [†] 	Yes
Security & Reliability		
	Intel vPro® Eligibility [†] 	Intel vPro® Platform
	Intel® AES New Instructions 	Yes
	Intel® Trusted Execution Technology [†] 	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.