



Intel® NUC 8 Pro Board NUC8v5PNB

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Essentials






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Product Collection	Intel® NUC Board with 8th Generation Intel® Core™ Processors
Code Name	Products formerly Provo Canyon
Status	Launched
Launch Date	Q1'20
Supported Operating Systems	Windows 10, 64-bit*, Windows 10 IoT Enterprise*, Windows Server 2019*, Ubuntu 18.04 LTS*
Board Number	NUC8v5PNB
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	2
DC Input Voltage Supported	12-24 VDC
Processor Included	Intel® Core™ i5-8365U Processor (6M Cache, up to 4.10 GHz)
Intel vPro® Platform Eligibility ‡	Yes
# of Cores	4
# of Threads	8
Processor Base Frequency	1.60 GHz
Max Turbo Frequency	4.10 GHz
Warranty Period	3 yrs
Recommended Customer Price	




Supplemental Information

Description	Intel® NUC 8 Pro Board
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Memory & Storage

Max Memory Size (dependent on memory type) 	64 GB
Memory Types 	DDR4-2400 1.2V SO-DIMM
Max # of Memory Channels 	2
Max # of DIMMs 	2
ECC Memory Supported ‡ 	No





Processor Graphics

Processor Graphics ‡ 	Intel® UHD Graphics for 8th Generation Intel® Processors
Integrated Graphics ‡ 	Yes
Graphics Output 	Dual HDMI 2.0a, DP 1.2 via Type C, 4-lane eDP 1.4
# of Displays Supported ‡	3







Expansion Options

PCI Express Revision 	Gen 3
PCI Express Configurations ‡ 	PCIe x4: M.2 22x80 (key M) slot PCIe x1: M.2 22x30 (key E) slot
M.2 Card Slot (wireless) 	22x30 (key E) slot
M.2 Card Slot (storage) 	22x80 (key M) slot

I/O Specifications

# of USB Ports	4
USB Configuration	USB 3.1 (type C): 1 rear USB 3.1 (type A): 2 front, 1 rear USB 3.0: 1 header USB 2.0: 1 rear, 2 headers
RAID Configuration 	2.5" HDD/SSD + M.2 SATA SSD (RAID-0 RAID-1)
Serial Port via Internal Header	Yes
Integrated LAN 	Intel® i219-LM 10/100/1000 Mbps Ethernet
Additional Headers 	Front_panel (PWR, RST, 5V, 5Vsby, 3.3Vsby); Internal 2x2 power connector
# of Thunderbolt™ Ports 	1x Thunderbolt™ 3

Advanced Technologies

Intel® Optane™ Memory Supported ‡ 	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ 	Yes
Intel vPro® Platform Eligibility ‡ 	Yes
TPM 	Yes
TPM Version 	2.0
Intel® Virtualization Technology (VT-x) ‡ 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
Intel® Trusted Execution Technology ‡ 	Yes

More support options for Intel® NUC 8 Pro Board NUC8v5PNB



Product Support



Downloads and Software



Support Community



Warranty and
Replacement



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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.

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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