

NUC8v5PNF - Quad-Core i5 vPro Fanless

Stay Cool, Clean and Silent

The NUC8v5PNF, built with 8th generation Intel® Core™ i5 vPro™ processors and fanless “Porcupine” chassis, delivers the performance and innovation for small space and embedded solutions without the use of a blower or fan. Whether you’re creating a digital kiosk, deploying intelligent vending, or refreshing enterprise PCs, the NUC8v5PNF can get the job done easily. With the option of Intel® Wireless-AC and BlueTooth 5 and the option to run Windows® 10, Linux or another OS, the NUC8v5PNF delivers the flexibility to build the exact solution your situation needs.

I/O Performance and Flexibility

The NUC8v5PNF has some new features including, for the first time on a commercial NUC, a Thunderbolt™ 3 port. Combine that with two full-sized HDMI 2.0a ports to power up to three brilliant 4K displays at 60 Hz. Suddenly your digital kiosks and intelligent vending machines have images that really pop and draw people in. This unit also features display emulation which enables various options including headless

operation, a second virtual display, and persistent displays. Equipped with USB 3.0 on the internal header, Porcupine allows for additional expansion IO if more USBs, Ethernet or Serial ports are needed. We can configure to your specific needs. And Porcupine is tested for 24/7 operation ensuring solutions that are built to last.

Safe and Secure

With Intel® vPro™ technology you can get ahead of security threats. The built-in hardware-enhanced security means you can keep data and credentials secure, and remote manageability is perfect for installations such as unattended digital kiosks and intelligent vending. This hardware offers Intel® Trusted Platform Module (TPM) which addresses the growing concern over boot process integrity and offers better data protection. In addition, Intel® Remote Secure Erase lets you wipe an Intel SSD on a lost or stolen system or wipe all data and encryption keys for enterprise clients, making any data that was on the drive, virtually impossible to retrieve.

Highlighted features

- 8th Gen Intel® Core™ i5 vPro
- Intel® UHD Graphics 620
- Two DDR4-2666 SO-DIMM Sockets
- M.2 slot supports PCIe or SATA SSDs
- 2.5" SATA drive bay
- Intel® Optane™ Memory ready
- Dual HDMI 2.0 supporting 4K @ 60Hz
- Intel® Gigabit LAN with AMT Support
- Intel® Wireless-AC 9560 vPro
- Intel® Bluetooth 5.1
- Three USB 3.1 Gen2 Ports
- One USB 2.0 Port
- Digital Audio 7.1 Surround Sound
- TPM 2.0
- Legacy Serial on a DE-9M connector
- RP-SMA Dual-Band Antennas
- Front panel power button
- 19V DC Jack (12-24v operation)
- VESA Mount Kit
- 0-45C Operating Temperature

Customization

- Supports DDR4 RAM 4GB-64GB
- Supports M.2 SSD 128GB-2TB
- Supports 2.5 inch SATA 128GB-2TB
- Optional Back IO Panel
- Two USB 2.0 and One USB 3.0 Internal Headers
- Consumer Electronics Control (CEC) Internal Header



Simply NUC Services

You can order this NUC in your various configurations, as well as your corporate OS Image loaded and ready to deploy.

Technical Specifications

<p>Processor</p> <ul style="list-style-type: none"> Intel® Core™ i5-8365U vPro processor (1.6GHz with 4.1GHz Turbo, Quad Core, Hyper-thread, 6MB Smart Cache, 15W TDP) 	<p>Graphics</p> <ul style="list-style-type: none"> Intel® HD Graphics 620 Two HDMI 2.0a ports with HDCP 2.2 Built-in CEC for both ports Support for a 3rd monitor via Thunderbolt 3 	<p>System Memory</p> <ul style="list-style-type: none"> Two DDR4 SO-DIMM sockets, 64GB Max, 1.2V
<p>Storage Capabilities</p> <ul style="list-style-type: none"> One M.2 socket supporting 22x80 M.2 SSDs, SATA or PCIe, Intel® Optane™ Memory One SATA 3 port for connection to 2.5" HDD or SSD 	<p>Peripheral Connectivity</p> <ul style="list-style-type: none"> Intel® Gigabit LAN w/ AMT support Three Super-Speed USB 3.1 Gen2 ports (one on back panel and two on front panel) One back USB 2.0 port One back USB 3.1 Gen 2 ports on Type-C Connector Intel® Dual Band Wireless-AC vPro Intel® Bluetooth 5.1 Wireless-AC 9560 is removable or disableable for security 	<p>System Bios</p> <ul style="list-style-type: none"> 64 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play Advanced configuration and power interface V3.0b, SMBIOS2.5 Intel® Visual BIOS Intel® Express BIOS update support
<p>Audio</p> <ul style="list-style-type: none"> Up to 7.1 surround audio via HDMI 	<p>Front Panel Header</p> <ul style="list-style-type: none"> Reset, HDD LED, Power LEDs, power on/off 	<p>Expansion Capabilities</p> <ul style="list-style-type: none"> One USB 3.0 port via a 1x10 header for optional I/O Two USB 2.0 ports on two 1x4 internal headers for optional I/O Optional Back IO Panel One Consumer Electronics Control header 2.5in Drive Mount for SATA drive
<p>Hardware Management Features</p> <ul style="list-style-type: none"> Trusted Platform Module (TPM) 2.0 AMT supported Ethernet Controller Voltage and temperature sensing ACPI-compliant power management control 	<p>Baseboard Power Requirements</p> <ul style="list-style-type: none"> 19V, 90W AC-DC power adapter with detachable power cord. <p>Mechanical Chassis Information</p> <ul style="list-style-type: none"> 7.5" x 4" x 3" (190 mm x 102 mm x 76 mm) VESA Mount Kit (Plate and Screws) 1.5kg (3.4lbs) Fully-Assembled with Antennas (no 2.5in drive or power adapter) 	<p>Expansion Capabilities</p> <ul style="list-style-type: none"> One USB 3.0 port via a 1x10 header for optional I/O Two USB 2.0 ports on two 1x4 internal headers for optional I/O Optional Back IO Panel One Consumer Electronics Control header 2.5in Drive Mount for SATA drive

Certification and Regulations

<p>Product Safety Regulations and Standards</p> <ul style="list-style-type: none"> IEC 60950-1 UL 60950-1 EN 60950-1 CAN/CSA-C22.2 No. 60950-1 	<p>EMC/RF Regulations and Standards (Class B)</p> <ul style="list-style-type: none"> CISPR 52 FCC CFR Title 47, Chapter I, Part 15, Subparts B, C, E ICES-005 EN 55052 ETSI EN 500 528 ETSI EN 501 489-1 ETSI EN 501 489-17 EN 55024 ETSI EN 501 895 EN 62511 AS/NZS 2772.2 4268 VCCI V-2, V-5, V-4 KN-52 CNS 15458 	<p>Environmental Regulations</p> <ul style="list-style-type: none"> RoHS Directive 2011/65/EU WEEE Directive 2012/19/EU China RoHS
<p>Environment Operating Temp</p> <ul style="list-style-type: none"> 0° C to +45° C Non-condensing Humidity <p>Storage Temperature</p> <ul style="list-style-type: none"> -20° C to +70° C 	<p>Certified Operating Systems</p> <ul style="list-style-type: none"> Windows 10 64-bit (Pro & Home) Windows 10 IoT Enterprise - (64-bit only) CBB and LTSB Windows Server 2016 Various Linux including: Ubuntu, Mint, openSUSE, etc (Contact Simply NUC for specifics) 	