

NUC9v7QN Quartz Canyon

Compact Workstation, Full-Sized Workhorse

Housed in a 5-liter chassis that's got 500 watts of on-board power for dual width desktop graphics cards and an Intel® Core™ i7 vPro® processor, the NUC9v7QN Pro (Quartz Canyon) is designed as the smallest workstation available to support desktop graphics, giving you unsurpassed performance in a chassis that can sit on a desktop or behind a monitor. Certified to run more than 20 professional applications, whether you're using AutoCAD to design a new building or running a financial quantitative analysis, Quartz Canyon makes graphically demanding tasks easy.

9th Generation Processing Power

Introducing the first Intel® NUC with 8 cores, providing uncompromised performance in unconventional packaging. With an Intel® Core™ i7 processor, featuring Intel® vPro™ technology, and support for up to 64GB of high speed DDR4 RAM, you have more CPU power than ever in a

NUC form factor. Combine this with desktop discrete graphics, Thunderbolt™ 3, DisplayPort, and HDMI capability for your optimal workstation experience in impressively tiny form factor.

Render Your Toughest Tasks with Ease

Quartz Canyon has room for your latest desktop graphics, two Thunderbolt™ 3 ports for fast data transfer, and is the first Intel NUC workstation able to handle content creation tasks, data visualization, and AI learning and inference. Rest assured knowing that this workstation has been qualified for 24/7 operation and is tested with more than 20 professional applications. With Intel® vPro™ technology, issues can be fixed whether you're in the office or working remote. Intended usages include CAD design, financial analysis, medical imaging, real-time simulations, and commercial quality post-production.

Highlighted features

- 9th Generation Intel® Core™ i7-9850H
- Intel® UHD Graphics P630
- Swappable System Blade
- Two DDR4-2666 SO-DIMM Sockets
- Three M.2 sockets for PCIe or SATA SSDs
- PCIe x16 and x4 slots
- Intel® Optane™ SSD, Memory M10 and Memory H10 ready
- HDMI 2.0 supporting 4K @ 60Hz
- Dual Thunderbolt 3 (supports Alt-DP)
- Dual Intel® Gigabit LAN
- Intel® Wi-Fi 6
- Intel® Bluetooth 5
- Internal Dual-Band Antennas
- Six USB 3.1 Gen 2 Ports (10Gb/s)
- SDXC card slot (UHS-II)
- Digital Audio 7.1 Surround Sound
- Front 3.5mm headset jack
- Rear Speaker/TOSLink Combo Jack
- Kensington lock support
- 500 watt internal power supply

Customization

- Supports DDR4 RAM 4GB-64GB
- Supports M.2 SSDs 128GB-2TB
- Supports Mini-ITX Graphics Cards
- Swappable System Blade



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™ i7-9850H (2.6 GHz – 4.6 GHz Turbo, Six Core, 12MB Cache, 45W) 	<p>Graphics</p> <ul style="list-style-type: none"> Intel® UHD Graphics P630 (350MHz-1.15GHz) One HDMI 2.0 port (4K @ 60Hz) Two Thunderbolt™ 3 ports supporting DP 1.4 Up to 3 displays at 4K resolution PCIe x16 slot supports 8" card-length, double-width graphics cards 	<p>System Memory</p> <ul style="list-style-type: none"> Dual Channel DDR4 SO-DIMMs (64GB Max), 1.2V Intel® Optane™ ready
<p>Storage Capabilities</p> <ul style="list-style-type: none"> Three M.2 key M slots, one 42/80 slot and two 42/80/110 slots M.2 supports both PCIe and SATA RAID 0 and RAID 1 capable SDXC slot with UHS-II support 	<p>Peripheral Connectivity</p> <ul style="list-style-type: none"> Two Intel® Gigabit LAN ports (i219-LM and i210-AT) Two front Super-Speed USB 3.1 Gen 2 on Type-A connectors Four rear Super-Speed USB 3.1 Gen 2 ports on Type-A connectors Two rear USB 3.1 Gen 2 ports on Type-C connectors Intel® Wi-Fi 6 AX200 2.4Gbps with internal antenna Intel® Bluetooth 5.0 with internal antenna PCIe x16 slot with 6+2-pin & 6-pin PCIe power connectors (up to 225W) PCIe x4 slot 	<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 or Display-Port signals Stereo Headset jack (TRRS) on the front panel Combo 3.5mm speaker/TOSLink optical audio jack on rear panel 	<p>Front Panel Header</p> <ul style="list-style-type: none"> Reset, HDD LED, Power LEDs, power on/off 	<p>Baseboard Power Requirements</p> <ul style="list-style-type: none"> 500W internal power supply with geo-specific AC cords <p>Mechanical Chassis Size</p> <ul style="list-style-type: none"> 9.4" x 8.5" x 3.8" 238 mm x 216 mm x 96 mm
<p>Hardware Management Features</p> <ul style="list-style-type: none"> Processor fan speed control Voltage and temperature sensing Fan sensor inputs used to monitor fan activity ACPI-compliant power management control 	<p>Expansion Capabilities (under Lid)</p> <ul style="list-style-type: none"> Internal dual USB 3.1 headers Internal dual USB 2.0 headers Internal front panel audio and CEC SATA power connector 	

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 22 FCC CFR Title 47, Chapter I, Part 15, Subparts A, B, C, E ICES-003 EN 55022 ETSI EN 300 328 489-1 ETSI EN 301 489-17 893 EN 62311 AS/NZS 2772.2 VCCI V-3, V-4 KN-22 CNS 13438 EN 55024 ETSI EN 301 ETSI EN 301 AS/NZS 4268 KN-24 	<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 +40° C Non-condensing Humidity <p>Storage Temperature</p> <ul style="list-style-type: none"> -20° C to +60° 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 10 Server Linux distributions 	