

INTEL® NUC ELEMENTS

An entirely new way to design and build modular solutions

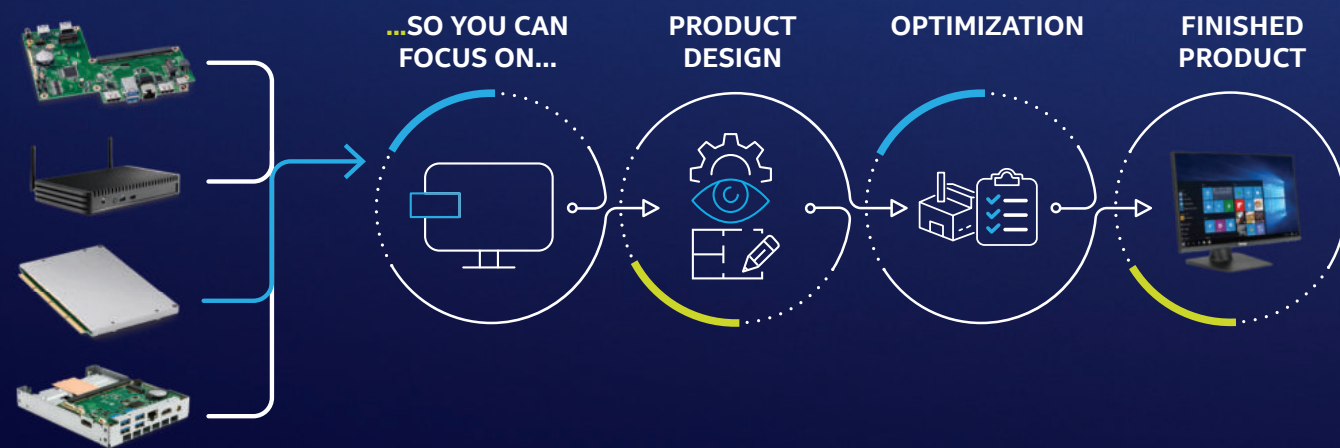


Intel NUC Elements are a system of modular components that let you create and customize innovative solutions for your customers with minimal R&D time.

Take the Intel® NUC Compute Element (with your choice of Intel® processor) and integrate it into these modular Intel NUC Elements or your own boards and chassis.

- **Intel® NUC Rugged Board Element:** Three I/O options for edge analytics, IoT deployments, digital signage/quick service restaurants/display walls, or whatever solution you can imagine.
- **Intel® NUC Rugged Chassis Element:** For harsh or extreme environments. Fanless, ventless, with a ridged top for cooling and designed for the Intel NUC Rugged Board. The chassis is Z-axis optimized to meet digital signage requirements.
- **Intel® NUC Pro Board Element:** A modular board (thermal solution optional) that's ideal for purpose built solutions.

CHOOSE INTEL® NUC ELEMENTS...



Learn more at intel.com/nucelements

INTEL® NUC 8 RUGGED KIT & BOARD



INTEL® NUC 9 PRO KIT



Model	NUC8CCHKR/ NUC8CCHB	NUC9VXQN	NUC9V7QN
Processor	Intel® Celeron® Processor N3350	Intel® Xeon® E-2286M Processor	9th Gen Intel® Core™ i7-9850H Processor
Processor Frequency	1.1 GHz 2.4 GHz Burst	2.4 GHz – 5.0 GHz Turbo	2.6 GHz – 4.6 GHz Turbo
Graphics	Intel® HD Graphics 500	Intel® UHD Graphics P630	Intel® UHD Graphics 630
Display Output, Max Displays	1x HDMI 2.0a, 1x HDMI 1.4	1x HDMI 2.0a, 2x DP/MST on Type C	
Memory	4 GB Dual-channel LPDDR3 (soldered-down)	Dual-channel DDR4 SODIMMs, ECC Memory Support	Dual-channel DDR4 SODIMMs
Operating System	Not included	Not included	
Storage	64 GB eMMC (soldered-down) M.2 2280 key M slot for PCIe x4 NVMe or SATA SSD	3x M.2 Key M PCIe x4 Gen3 Slots: 42/80 + 42/80/110 PCH-attached, 42/80/110 CPU-attached, Intel® Optane™ SSD Ready	
Features	4 USB Ports, Intel® Wireless-AC 3168, Intel® i211-AT 10/100/1000 LAN, DC Cable Strain Relief, Fanless & Dust Resistant Chassis (IP50), 3-year Product Availability and Warranty	Intel® vPro™ Technology, HDMI*2.0a, Dual Thunderbolt 3 Ports, Four USB 3.1 Ports, Supports 3x 4K Displays (additional displays supported with an add-in graphics card), Intel® Wi-Fi 6, Bluetooth 5, Dual Intel® Gigabit LAN Ports, PCIe x4 slot, TPM 2.0, 3-year Product Availability and Warranty	
Target Usages	Industrial/Digital Signage/Edge Data Analytics	Workstation PC/Data Sciences/Financial Analysis/Architecture/Engineering/Content Creation/Media Editing	

Committed to excellence



INTEL® NUC

BUILT FOR PROFESSIONALS

POWERED FOR SUCCESS

Designed for a wide range of commercial and education usages, the Intel® NUC is an Intel-designed small form factor board, kit, or Mini PC that delivers desktop-like performance.



INTEL® NUC COMMERCIAL USAGES

PROFESSIONALS

Get mind-blowing performance for the modern workplace. Intel® NUC Mini PCs are designed for Windows® 10 Pro with the power for all of your office apps.



CONFERENCE ROOM

Transform existing conference rooms and collaboration areas into smart, connected meeting spaces. Pair with the Intel Unite® Solution for seamless collaboration wherever your business takes you.



DIGITAL SIGNAGE

Create interactive touch systems with brilliant 4K Ultra HD visuals. The Intel® NUC supports remote manageability, encryption, multiple displays, and broad third-party ecosystem support.



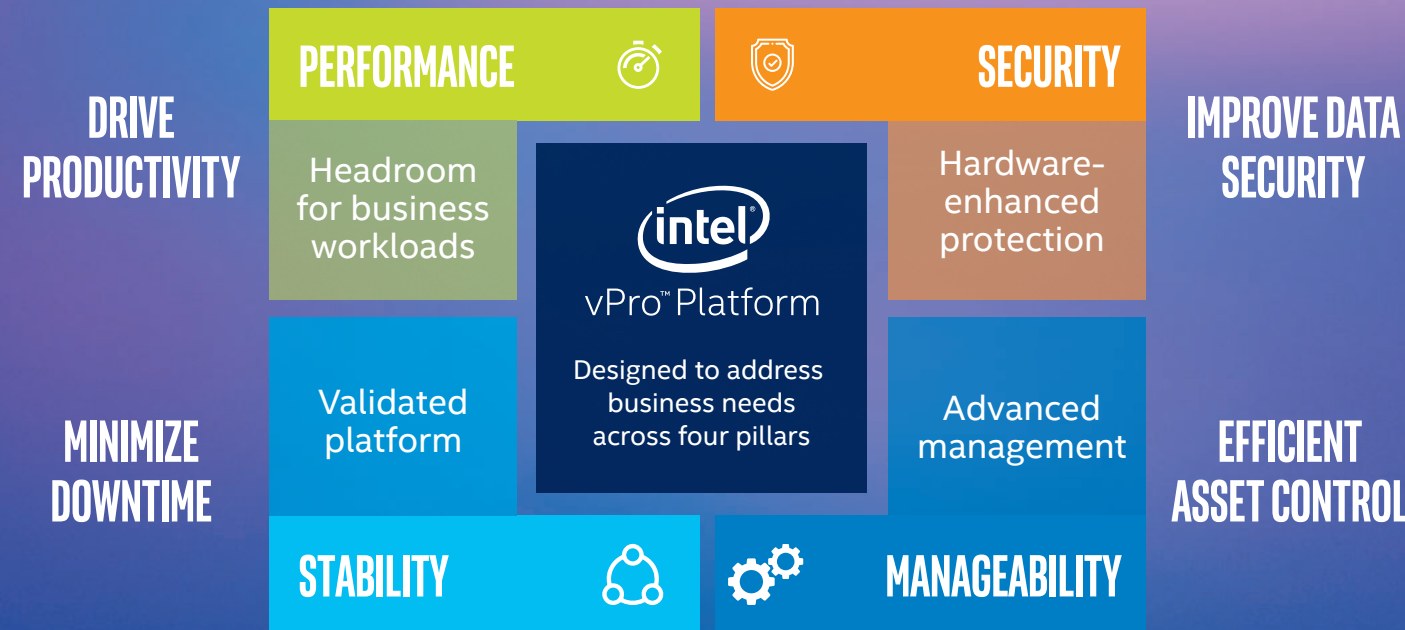
RUGGED DESIGN

Customize your solution to meet your needs. Intel® NUC kits and boards are configurable, scalable, and are a natural fit for tight spaces or commercial applications.



BUILT FOR BUSINESS

Intel® vPro™ Helps Businesses to Succeed



	INTEL® NUC 8 PRO MINI PC			INTEL® NUC 8 PRO KIT			INTEL® NUC 8 PRO BOARD		
Model	NUC8v7 PNKQ	NUC8v5 PNKW	NUC8i3 PNKO	NUC8v7 PNH/K	NUC8v5 PNH/K	NUC8i3 PNH/K	NUC8v7 PNB	NUC8v5 PNB	NUC8i3 PNB
Processor	Intel® Core™ i7-8665U	Intel® Core™ i5-8365U	Intel® Core™ i3-8145U	Intel® Core™ i7-8665U	Intel® Core™ i5-8365U	Intel® Core™ i3-8145U	Intel® Core™ i7-8665U	Intel® Core™ i5-8365U	Intel® Core™ i3-8145U
Processor Frequency	1.8 GHz – 4.8 GHz	1.6 GHz – 4.1 GHz	2.1 GHz – 3.9 GHz	1.8 GHz – 4.8 GHz	1.6 GHz – 4.1 GHz	2.1 GHz – 3.9 GHz	1.8 GHz – 4.8 GHz	1.6 GHz – 4.1 GHz	2.1 GHz – 3.9 GHz
Graphics	Intel® UHD Graphics 620								
Display Output, Max Displays	Triple Display Support via Dual DP/MST on Type C plus HDMI/eDP (or Dual HDMI plus eDP on Board SKU)								
Memory	16 GB Dual-channel DDR4-2400	8 GB Dual-channel DDR4-2400	4 GB Dual-channel DDR4-2400	Not included					
Operating System	Windows® 10 Pro						Not included		
Storage	Intel® SSD 512 GB NVMe		256 GB NVMe	M.2 22x80 key M slot					
Features (Shared between Mini PCs & Kits/Board)	Dual HDMI* 2.0a, Thunderbolt™ 3, 3 USB 3.1 Gen2 Ports, Intel® Wireless-AC, Intel® Gigabit LAN, Qualified for 24x7 Operation, Delayed AC Start, DC Overvoltage Protection, DC Cable Strain Relief, Internal 4-lane eDP Connector, 3-year Limited Warranty and 3-year Product Availability								
Target Usages	Digital Signage/Conference Room/Intel® vPro™ Enterprise PC/ Intelligent Vending/Visual Retail/Security or Surveillance/ Edge Device								

THE INTEL UNITE® SOLUTION

Turning meeting room challenges into high-quality collaboration experiences.



Intel Unite® solution requires an Intel® Core™ vPro™ processor-powered PC hub.