

	Intel® NUC 9 Extreme Kit – NUC9i5QNX
Main data	
Suitable operating systems	Windows 10, 64-bit*, Linux*
Board number	NUC9i5QNB
Mainboard format	PCIe
Internal drive form factor	M.2 SSD
Number of supported internal drives	3
Mainboard Chipset	Mobile Intel® CM246 Chipset
Included processor	Intel® Core™ i5-9300H Processor (8M Cache, up to 4,10 GHz)
Intel® vPro™ Platform qualification ‡	No
Number of cores	4
Number of Threads	8
Basic clock frequency of the processor	2,40 GHz
Max. Turbo clock frequency	4,10 GHz
Guarantee period	3 yrs
Additional Information	
Embedded models available	No
Memory and data storage	
Max. memory size (depending on the memory type)	64 GB
Memory types	DDR4-2666
Max. Number of memory channels	2
Max. Memory Bandwidth	42.6 GB/s
Max. Number of DIMMs	2
Support of ECC memory ‡	No
Processor Graphics	
Processor graphic ‡	Intel® UHD-Grafik 630
Integrated graphic ‡	Yes
Video output	2x Thunderbolt 3, HDMI 2,0a
Number of supported screens ‡	3
Separate graphics card	Via PCIe add-in card(s)
Extension options	
PCI Express Version	Gen3
PCI Express Configurations ‡	2x M.2 PCIe X4 slots (PCH), 1x M.2 PCIe X4 slot (CPU) Double-wide PCIe X16 (CPU) slot shared with PCIe X4 (CPU) slot, 8" max card length
PCIe x4 Gen 3	1
PCIe x16 Gen 3	1
Removable memory slot	SDXC with UHS-II support
M.2 Card slot (memory)	2x via PCH + 1x via CPU (NVMe)
I/O Specifications	
Number of USB ports	11
USB configuration	4x rear USB 3.1g2, 2x Thunderbolt 3 (USB 3.1g2), 2x front USB 3.1g2, 2x USB 2.0 via internal headers, 1x USB 2.0 internal
USB version	3,1 Gen2, 2.0
USB 2.0 configuration (external + internal)	3x int.
Total number of SATA ports	3
Maximum number of SATA 6.0 Gbps ports	3
RAID configuration	2x M.2 SATA/PCIe SSD, SATA header (RAID-0 RAID-1)
Audio (connectors on the rear panel + front connectors)	7.1 digital; L+R+mic (F); L+R+TOSLINK (R)
Integrated LAN	Intel® Ethernet Connection i219-LM and i210-AT
Integrated WLAN‡	Intel® Wi-Fi 6 AX200
Integrated Bluetooth technology	Yes

S/PDIF output	TOSLINK
Other headers	CEC, 2x USB2.0, FRONT_PANEL
Number Thunderbolt™ 3 ports	2
Package Specifications	
Housing dimensions	238 x 216 x 96mm
Innovative technical functions	
Intel® Optane™ memory supports ‡	Yes
Intel® Direct I/O Virtualization Technology (VT-d) ‡	Yes
Intel® vPro™ Platform qualification ‡	No
TPM	Yes
Intel® Rapid Storage Technology	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Platform Trust Technology (Intel® PTT)	Yes
Safety and reliability	
Intel® AES New Instructions	Yes