

	Intel® NUC 10 Performance Mini-PC - NUC10i7FNKPA ()
<b>Main data</b>	
Suitable operating systems	Windows 10, 64-bit*
Board number	NUC10i7FNB
Mainboard format	UCFF (4" x 4")
Socket	Soldered-down BGA
Form factor of the internal drive	M.2 SSD
Number of supported internal drives	1
Not included in the Roadmap	No
Lithography	14 nm
Power dissipation (TDP)	25 W
Supported input voltage (DC)	19 VDC
Preinstalled operating system	Windows 10, 64-bit*
Included processor	Intel® Core™ i7-10710U processor (12M cache, up to 4.70 GHz)
Intel® vPro™ Platform qualification ‡	No
Number of cores	6
Number of Threads	12
Basic clock frequency of the processor	1.10 GHz
Max. Turbo clock frequency	4.70 GHz
Guarantee period	3 yrs
<b>Additional information</b>	
Embedded models available	Nein
Data sheet	Show now
Description	Other features: 256GB NVMe SSD, Windows® 10 x64 Home, includes far-field quad array microphones
<b>Memory and data storage</b>	
Supplied memory	256GB NVMe SSD
Memory contained	2x 4GB DDR4-2666
Max. memory size (depending on the memory type)	64 GB
Memory types	DDR4-2666 1.2V SO-DIMM
Max. Number of memory channels	2
Max. Memory Bandwidth	42.6 GB/s
Max. Number of DIMMs	2
Support of ECC memory ‡	No
<b>Processor Graphics</b>	
Processor graphic ‡	Intel® UHD Graphics
Integrated graphic ‡	Yes
Video output	HDMI 2,0a; USB-C (DP1.2)
Number of supported screens ‡	3
<b>Extension options</b>	
PCI Express Version	Gen3
PCI Express Configurations ‡	M.2 slot with PCIe X4 lanes
Removable memory slot	SDXC with UHS-II support
M.2 Card slot (memory)	22x42/80

<b>I/O Specifications</b>	
Number of USB ports	7
USB configuration	2x front (Type-A, Type-C) and 3x rear USB 3.1 Gen2 (2x Type-A, Type-C); 2x USB 2.0 via internal headers
USB version	2,0, 3.1 Gen2
USB 2.0 configuration (external + internal)	0 + 2
USB 3.0 configuration (external + internal)	2B 2F + 0
Total number of SATA ports	2
Maximum number of SATA 6.0 Gbps ports	2
Audio (connectors on the rear panel + front connectors)	7.1 digital (HDMI mDP); L+R mic (F)
Integrated LAN	Intel® Ethernet Connection I219-V
Integrated WLAN‡	Intel® Wireless-AX MAC
Integrated Bluetooth technology	Yes
Rx Infrared receiver	Yes
Other headers	CEC, 2x USB2.0, FRONT_PANEL
Number Thunderbolt™ 3 Ports	1
<b>Package Specifications</b>	
Housing dimensions	117 x 112 x 38mm
<b>Innovative technical functions</b>	
Intel® Optane™ memory supports ‡	Yes
Intel® Direct I/O Virtualization Technology (VT-d) ‡	Yes
Intel® vPro™ Platform qualification ‡	No
TPM	No
Intel® HD Audio Technology	Yes
Intel® Rapid Storage Technology	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Platform Trust Technology (Intel® PTT)	Yes
<b>Safety and reliability</b>	
Intel® AES New Instructions	Yes