Intel NUC 10 Performance UCFF Black BGA 1528 i3-10110U 2.1 GHz

Brand : Intel   **Product family:** NUC   **Product code:**
BXNUC10I3FNKN2

Product name : 10
Performance

Intel Core i3-10110U (4MB Cache, 2.10GHz), DDR4-SDRAM, SSD, Intel UHD Graphics, LAN, WLAN, Bluetooth
Intel NUC 10 Performance. Chassis type: UCFF, Product type: Mini PC barebone. Processor socket: BGA 1528. Supported memory types: DDR4-SDRAM, Number of memory slots: 2, Maximum internal memory: 64 GB. Supported storage drive types: SSD. Ethernet LAN (RJ-45) ports: 1. Wi-Fi standards: 802.11a, 802.11b, 802.11g, Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)

Processor

Built-in processor *	✔
Processor manufacturer	Intel
Processor family	Intel® Core™ i3
Processor generation	10th gen Intel® Core™ i3
Processor model	i3-10110U
Processor frequency	2.1 GHz
Processor cores	2
Processor threads	4
Processor lithography	14 nm
Processor boost frequency	4.1 GHz
Processor cache	4 MB
Thermal Design Power (TDP)	25 W
Memory bandwidth supported by processor (max)	42.6 GB/s
Processor codename	Comet Lake
CPU configuration (max)	1

Memory

Memory slots type *	SO-DIMM
Number of memory slots *	2
Number of DIMM slots	2
Maximum internal memory	64 GB
Supported memory clock speeds	2666 MHz
Supported memory types	DDR4-SDRAM
Memory channels	Dual-channel
Memory bandwidth (max)	42.6 GB/s
Memory voltage	1.2 V
Removable memory card slot	SDXC with UHS-II support
ECC	✘

Storage

Supported storage drive types *	SSD
Storage drive sizes supported *	M.2
SSD form factor	M.2
Number of storage drives supported	1
Card reader integrated	✔
Compatible memory cards	SDXC

Design

Product type *	Mini PC barebone
Status	Launched
ARK ID	214611

Performance

Motherboard form factor	UCFF
Processor socket	BGA 1528
Trusted Platform Module (TPM)	✘
Audio output channels	7.1 channels
Consumer infrared Rx sensor	✔
Windows operating systems supported	Windows 10 x64
Compatible operating systems	Windows 11 (64-bit), Windows 10 (64-bit)
Operating system installed	✘
Commodity Classification Automated Tracking System (CCATS)	G157815L2
Harmonized System (HS) code	84713000
Export Control Classification Number (ECCN)	5A992C

Processor special features

Intel® vPro™ Platform Eligibility	✘
Intel® High Definition Audio (Intel® HD Audio)	✘
Embedded options available	✘
Intel Rapid Storage Technology	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Quick Sync Video Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔

Graphics

On-board graphics card *	✔
Graphics card family	Intel
On-board graphics card model	Intel® UHD Graphics
Number of displays supported	3

Network

Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
WLAN controller model	Intel Wi-Fi 6 AX201
Ethernet LAN *	✔
Wi-Fi *	✔
LAN controller	Intel® I219-V
Bluetooth	✔

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Internal USB 2.0 ports quantity	2
HDMI ports quantity *	1
HDMI version	2.0b
DisplayPort version	1.2
Combo headphone/mic port	✔
Ethernet LAN (RJ-45) ports *	1
Number of SATA III connectors	2
USB version	2.0/3.2 Gen 2 (3.1 Gen 2)
USB ports quantity	7
Thunderbolt 3 ports quantity	1
M.2 card slot (storage)	2242/2280
Graphics output	HDMI 2.0b; USB-C (DP1.2)
DC-in jack	✔

Expansion slots

PCI Express slots version	3.0
Number of M.2 (M) slots	1
PCI Express configurations	1x4, 2x2, 1x2+2x1, 4x1

Design

Chassis type *	UCFF
Product colour *	Black
On/off switch	✔

Processor special features

Intel VT-x with Extended Page Tables (EPT)	✔
Intel 64	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Idle States	✔
Enhanced Intel SpeedStep Technology	✔
Thermal Monitoring Technologies	✔
Intel Flex Memory Access	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel Trusted Execution Technology	✘
Execute Disable Bit	✔
Intel TSX-NI	✘
Intel® Secure Key	✔
Intel Stable Image Platform Program (SIPP)	✘
Intel® OS Guard	✔
Intel Clear Video Technology	✔
Intel® Optane™ Memory Ready	✔
Intel® Platform Trust Technology (Intel® PTT)	✔
Intel Virtualization Technology (VT-x)	✔

Power

Power supply type *	External AC adapter
AC adapter output voltage	19 V

Weight & dimensions

Width	117 mm
Depth	112 mm
Height	38 mm

Packaging content

Processor included	Intel® Core™ i3-10110U Processor (4M Cache, up to 4.10 GHz)

Other features

Launch date	Q2'21
Additional headers	CEC, 2x USB2.0, FRONT_PANEL, RGB
Number of SATA connectors	2
DC input voltage	19 V
Processor ARK ID	196451

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