ASUS NUC 13 NUC13RNGi7 Black i7-13700K Intel Z690

Brand : ASUS

Product family: NUC 13

Product code: 90AB3RNG-MR8120

Product name : NUC13RNGi7

- NUC 13 Extreme supports a triple-slot 12” graphics card, up to 64GB of dual-channel DDR5 memory supporting speeds of 4800+ MHz1 2 3, and Intel® Killer™ Wi-Fi 6E
- With a new, modern design, airflow is optimized to minimize noise and throttling for hours of intense gameplay
- Includes an 80+ Gold 750W 12VO power supply, AQC113 10GbE and i226-V 2.5GbE Ethernet ports, two Thunderbolt™ 4 ports, eight USB 3.2 Type-A ports, and a front USB 3.2 Gen2x2 Type-C port
NUC 13 Extreme Kit, Intel Core i7-13700K Processor (30M Cache | up to 5.40 GHz), up to 64GB of dual-channel DDR5 memory

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NUC 13 Extreme pairs off-the-charts performance and never-before-seen features with an updated thermal design.

NUC 13 Extreme
Prey on the Competition.

Innovation in PC gaming
NUC 13 Extreme features all-new, unlocked 13th Gen Intel® Core™ i9/i7/i5 processors to deliver the extreme performance that hardcore gamers want.

Processor	
Processor manufacturer	Intel
Processor family	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model	i7-13700K
Processor cores	16
Processor threads	24
Processor boost frequency	5.4 GHz
Performance cores	8
Efficient cores	8
Built-in processor *	✔
Performance-core boost frequency	5.3 GHz
Efficient-core boost frequency	4.2 GHz
Processor cache	30 MB
Thermal Design Power (TDP)	125 W

Memory	
Memory slots type *	SO-DIMM
Number of memory slots *	2
Maximum internal memory	64 GB
Supported memory types	DDR5-SDRAM
Memory channels	Dual-channel
ECC	✘

Storage	
Supported storage drive types *	SSD
Storage drive sizes supported *	M.2
SSD form factor	M.2
Storage drive interface	PCI Express
NVMe	✔
Number of storage drives supported	3

Network	
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	6
HDMI ports quantity *	1
HDMI version	2.1
Combo headphone/mic port	✔
Ethernet LAN (RJ-45) ports *	1
Serial port via internal header	✘
Thunderbolt 4 ports quantity	2
DC-in jack	✔

Expansion slots	
PCI Express slots version	4.0, 5.0

Design	
Product colour *	Black
Cooling type *	Active
Product type *	PC barebone

Performance	
Motherboard chipset	Intel Z690
Number of processors supported	1

Processor special features	
Intel Rapid Storage Technology	✔
Intel® AES New Instructions (Intel® AES-NI)	✔

Graphics	
On-board graphics card *	✔
Graphics card family	Intel
On-board graphics card model	Intel UHD Graphics 770
Number of displays supported	4

Audio	
Built-in speaker(s) *	✘

Network	
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
WLAN controller model	Intel Wi-Fi 6E AX1690i
Ethernet LAN *	✔
Wi-Fi *	✔
LAN controller	Intel I226-V

Processor special features	
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel® Optane™ Memory Ready	✔
Intel® Platform Trust Technology (Intel® PTT)	✔
Intel Virtualization Technology (VT-x)	✔

Software	
Windows operating systems supported	Windows 11 x64

Power	
Power supply type *	Internal power supply unit
Power supply	750 W
Number of power supply units	1

Weight & dimensions	
Width	129 mm
Depth	337 mm
Height	318 mm

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