ASUS ROG RNUC16JNK9X28AA2 Intel Core Ultra 9 290HX Plus 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Windows 11 Home Mini PC Black



Brand : ASUS

Product family: ROG

Product code: 90AS00S1-M002H0

Product name :
RNUC16JNK9X28AA2

- Windows 11 Home 64-bit
- Intel Core Ultra 9 290HX Plus (36MB Cache)
- NVIDIA GeForce RTX 5080 (16GB GDDR7)
- 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD

Intel Core Ultra 9 290HX Plus (36MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Bluetooth, Windows 11 Home 64-bit



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Compact, Powerful, Beyond Limits
Meet ROG NUC 16—a mini PC that redefines performance in a compact form factor. ROG NUC 16 leverages the power of the latest Intel® processors and NVIDIA® graphics to unleash immersive, ray-traced worlds with unmatched precision. Featuring a triple-fan cooling system and dual-vapor-chamber architecture, and rigorously tested for durability and reliability, the ROG NUC 16 delivers battle-ready performance without compromises. Plus, it can be stood upright or placed horizontally, so it fits any setup.

Processor	
Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 9
Processor generation	Intel Core Ultra (Series 2)
Processor model *	290HX Plus
Processor cores	24
Processor threads	24
Processor boost frequency	5.5 GHz
Performance cores	8
Efficient cores	16
Efficient-core Max Turbo Frequency	4.7 GHz
Processor cache	36 MB
Processor cache type	Smart Cache
Processor socket	BGA 2114
Processor base power	55 W
Maximum turbo power	160 W

Neural processor unit (NPU)	
Neural processor unit (NPU)	Intel AI Boost
Total processor performance up to	36 TOPs
NPU performance up to	13 TOPs
GPU performance up to	8 TOPs

Memory	
Internal memory *	32 GB
Maximum internal memory *	128 GB

Performance	
Market positioning	Gaming
Motherboard chipset	Intel HM870
Product type *	Mini PC

Network	
Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Bluetooth	✔
Bluetooth version	5.4

Ports & interfaces	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	6
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Intel® Thunderbolt 4	✔
Thunderbolt 4 ports quantity	1
DisplayPorts quantity	1
DisplayPort version	2.1
HDMI ports quantity *	2
HDMI version	2.1
Ethernet LAN (RJ-45) ports	1

Memory	
Internal memory type	DDR5-SDRAM
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Memory clock speed	5600 MHz

Storage	
Total storage capacity *	2 TB
Storage media *	SSD
Optical drive type *	✗
Total SSDs capacity	2 TB
Number of SSDs installed	1
SSD capacity	2 TB
NVMe	✓
SSD form factor	M.2

Graphics	
Discrete graphics card *	✓
Discrete GPU manufacturer	NVIDIA
On-board graphics card *	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5080
Discrete graphics card memory	16 GB
Discrete graphics memory type	GDDR7
On-board GPU manufacturer	Intel
On-board graphics card family	Intel® Graphics
On-board graphics card model *	Intel® Graphics

Ports & interfaces	
Combo headphone/mic port	✓
DC-in jack	✓

Power	
Power supply *	380 W

Design	
Chassis type *	Mini PC
Cable lock slot	✓
Cable lock slot type	Kensington
Product colour *	Black
Introduction year	2026

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 11 Home

Display	
Display included *	✗

Audio	
Audio chip	Realtek ALC3342-CG

Weight & dimensions	
Width *	282.4 mm
Depth *	189.5 mm
Height *	56.5 mm
Weight *	3.2 kg

Packaging data	
Package width	370 mm
Package depth	258 mm
Package height	190 mm
Package weight	5.95 kg

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Catalog Object Cloud

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