

Mini PC GEEKOM A8 Ryzen 9 8945HS 32GB + 1TB + Win11 Pro



Model: GMA8R98945HS-321T-EU

Manufacturer: GEEKOM

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Product Code: 303544

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GEEKOM A8 Mini PC Ryzen 9 8945HS 32GB + 1TB + Win11 Pro

The GEEKOM A8 Mini PC combines compact, minimalist design with the performance that every office worker or computer game enthusiast deserves. Equipped with an AMD Ryzen 9 processor, advanced artificial intelligence support, and powerful Radeon 780M graphics, it is perfect for both work and entertainment. Fast DDR5 memory, a spacious SSD drive, extensive display options, a rich set of ports, and super-fast wired and wireless connectivity make it the perfect center for work and entertainment. The whole thing is complemented by an effective cooling system, pre-installed Windows 11 Pro, and high reliability confirmed by tests.

Powerful performance in a compact form factor

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At the heart of the A8 is an AMD Ryzen 9 8945HS processor from the Hawk Point series, manufactured using 4nm lithography. Eight Zen 4 cores, sixteen threads, and 16 MB of L3 cache deliver impressive performance in almost any scenario, from office work and programming to advanced computing and intensive multitasking.

Creativity powered by artificial intelligence

With an improved NPU, Ryzen 8040 processors support up to 60% more AI-based tasks than the previous generation. In practice, this means more possibilities for every user. In everyday use, the computer quickly analyzes information, generates images and video from text, and streamlines data processing. In a business environment, it automatically summarizes notes, transcribes conversations, and prepares meeting minutes. Content creators benefit from faster photo editing, shorter video rendering times, and more efficient multitasking.

Gaming at a higher level

The integrated Radeon 780M graphics chip is currently one of the most powerful iGPUs on the market. RDNA 3 architecture, 12 compute units, and clock speeds up to 2800 MHz, as well as support for DirectX 12 Ultimate, ray tracing, and variable rate shading, allow you to run even demanding, modern AAA games with smooth animation. Additional support from the AI engine further enhances performance in games and graphics applications.

Speed that keeps up with you

The powerful components are complemented by 32 GB of dual-channel DDR5 5600 MT/s memory and a fast 1 TB NVMe M.2 2280 PCIe 4.0 SSD. This configuration guarantees lightning-fast system, application, and file startup. Importantly, both the RAM and the drive are easily replaceable, so you can customize your computer to your growing needs at any time.

Uncompromising image quality

A rich set of video outputs, including two HDMI 2.0 ports, USB4, and a full-function Type-C port, allows you to connect displays with resolutions up to 8K or simultaneously support up to four 4K monitors. The device also offers a wide selection of ports, including four USB-A connectors, high-

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speed USB4 with up to 40 Gbps bandwidth, and an SDXC card reader. With USB4, you can connect an external graphics card or ultra-fast storage, further expanding the potential of your computer.

Super-fast wired and wireless networking

The integrated 2.5 Gbps Ethernet port provides a stable and very fast wired connection, ideal for online gaming, 8K video streaming, or real-time VR applications. The Wi-Fi 6E and Bluetooth 5.3 modules guarantee fast, secure, and reliable wireless connections to the network and accessories.

Cool even during intense work

The proprietary IceBlast 1.5 cooling system ensures stable operation. Active cooling with an efficient fan, large heat sink, dual heat pipes, and high-grade thermal paste effectively dissipates heat from key components. The thoughtful layout of the components allows you to maintain high performance without limiting bandwidth, even during long, demanding tasks.

Ready to go right out of the box

The GEEKOM A8 comes with Windows 11 Pro pre-installed and licensed, so you can start working immediately after connecting it to a power source. The computer also supports other x86-compatible systems such as Manjaro, Ubuntu, and Android x86, offering complete freedom of choice in terms of environment.

Manufacturer	Geekom
Model	A8
Material	Aluminum, matte anodized finish
Case capacity	0.47 L
Processor	AMD Ryzen 9 8945HS (Ryzen 8040 Hawk Point series)
Process technology	4 nm
Processor TDP	45 W

Cores/threads 8 cores/16 threads

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CPU architecture	Zen 4
L3 cache	16 MB
AI chip	integrated NPU (increased AI task performance)
Graphics	AMD Radeon 780M (integrated)
GPU architecture	RDNA 3
Compute units	12 CU (768 shaders)
GPU clock speed	up to 2800 MHz
Supported technologies	DirectX 12 Ultimate, hardware ray tracing, variable shading
RAM	32 GB DDR5
RAM mode	dual channel
RAM clock speed	5600 MT/s
RAM expandability	Yes
Drive	1 TB SSD
Drive format	M.2 2280
Interface	PCIe 4.0 x4 NVMe
Expandability	Yes
Video outputs:	2 x HDMI 2.0, 1 x USB4, 1 x USB Type-C (full-featured)
Monitor support	up to 1 x 8K or up to 4 x 4K
Ports	3 x USB-A 3.2 Gen 2, 1 x USB-A 2.0, USB4 (40 Gb/s), USB Type-C (multifunction), SDXC card reader
Wired network	2.5 Gb/s Ethernet
Wireless connectivity	Wi-Fi 6E, Bluetooth 5.3
Cooling	IceBlast 1.5
Operating system	Windows 11 Pro (pre-installed)
Supported alternative systems	Manjaro, Ubuntu, Android x86

GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_others.pdf, Gross weight: 1420, Net weight: 700, Box length: 19,00, Box width: 19,00, Box height: 12,00

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