

Mini PC GMKtec K12 Ryzen 7 H 225 16GB 255 32GB RAM + 1TB SSD WIN 11 Pro

Model: K12-1

Manufacturer: GMKTEC

EAN: 6972570963945

Product Code: 1054983

R30,904

MINI PC GMKtec K12 Ryzen 7 H 16GB 255 32GB RAM + 1TB SSD WIN 11 Pro

The GMKtec K12 Mini PC is powered by a custom AMD Ryzen 7 H255 processor, which surpasses the performance of the Ryzen 7 8745HS model. The octa-core and sixteen-threaded unit, clocked at up to 4.9 GHz and with a 16 MB cache, easily handles multitasking and compute-intensive workloads. With a TDP range of 35-54 watts, it achieves the perfect balance between performance and energy efficiency. The device comes with Windows 11 Pro installed. It is also compatible with Linux.

Impressive performance with Ryzen 7 H255

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High computing power is provided by the AMD Ryzen 7 H255 processor, whose performance surpasses the Ryzen 7 8745HS, 7840HS and 6800H models. Eight cores and sixteen threads, clocked at up to 4.9 GHz and 16 MB of cache memory guarantee smooth operation of demanding applications and multitasking without performance drops. The chip is made using TSMC's 4 nm lithography, and with a TDP of 54 watts, the PC offers stable operation even under heavy load.

Integrated graphics with the power of an independent card

The powerful AMD Radeon 780M chip provides smooth operation of games and graphics programs, offering performance comparable to dedicated GPU cards. The GPU clock frequency is 2600 MHz, and the RDNA 3 architecture used guarantees high frame rates - in popular titles up to 182 FPS in e-sports games and 127 FPS in productions with more advanced graphics are achieved. The integrated chip also copes admirably with video editing, 3D design and high-definition multimedia, making the K12 a versatile computer for work and entertainment.

8K image on four screens

The device supports up to four simultaneous monitors at resolutions up to 8K, offering an exceptional visual experience and a large workspace. It features ports such as USB 4.0, USB-C, DisplayPort 1.4 and HDMI 2.1, allowing you to connect a variety of devices - from monitors and graphics tablets to TVs and projectors. It's ideal for creatives, analysts and professionals who need a powerful mini PC for multi-screen work and top-quality image processing.

Everything you need for work and entertainment

Create a fully functional workstation for work, gaming and multimedia. At your disposal will be 2 USB-C ports, 5 USB-A ports, HDMI 2.1, DisplayPort, 2 2.5G LAN ports, a CTIA 3.5mm audio jack and an OCuLink (PCIe Gen4 x4) port for connecting an external graphics card. Such equipment ensures full compatibility with modern devices and guarantees comfortable use in the office, home or studio.

Support for external graphics cards

The OCuLink port allows you to connect an external graphics card, significantly increasing the computer's capabilities in gaming, rendering and graphics work. Such a solution allows you to

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achieve performance comparable to full-size PCs, while maintaining the compact size of the device. Note, however, that the OCuLink port does not support hot-plug functionality, so connecting or disconnecting the card should be done with the computer turned off.

Stable connection in any situation

GMKtec K12 is equipped with two 2.5G Ethernet ports, which provide fast and stable data transfer - up to 2500 MB/s. Such a solution guarantees reliability in bandwidth-intensive applications - from office work, to transferring large files, to media servers or monitoring systems. The computer maintains a constant transmission speed and high responsiveness, ensuring smooth operation in all conditions. Using Wi-Fi 6E and Bluetooth 5.2 technology, the GMKtec K12 offers fast and stable connections in all conditions. The new Wi-Fi standard provides speeds of up to 2,500 Mbps, 37% higher than Wi-Fi 6, which translates into lightning-fast data transfers and low latency for online gaming. Bluetooth 5.2, on the other hand, works 2.5 times faster than version 4.2, guaranteeing stable communication with peripherals such as headphones, keyboards and controllers.

Easy memory and disk expansion

The design of the GMKtec K12 has been developed for simplicity of upgrades and maximum flexibility. With easy access to components, you can expand your computer's capabilities in a matter of moments by mounting up to three M.2 2280 PCIe 4.0 SSDs with a total capacity of up to 24TB (max. 8TB per slot). In addition, two DDR5 5600 MHz SO-DIMM slots support up to 128 GB of RAM (max. 64 GB per slot), allowing you to customize your configuration for the most demanding applications - from working with large files to advanced graphics and computing projects.

Advanced solutions

The heat dissipation system combines two fans with a copper base to ensure stable operation for up to 72 hours at 70W TDP load. The convection airflow design increases cooling efficiency by as much as 200% compared to classic Tower PCs, while maintaining a chassis that is only 1/50th their size. Intelligent system fans and thoughtful airflow distribution maintain optimal component temperatures, while RGB backlighting adds a modern, striking touch. Depending on the task at hand, the GMKtec K12 allows you to switch seamlessly between three operating modes, offering the perfect balance of silence, temperature and performance. In Quiet mode (35-40 W TDP), the

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computer runs almost silently, Balanced (54-60 W TDP) provides stable power for everyday tasks, and Performance (65-70 W TDP) takes full advantage of the processor's potential in games and system-heavy applications.

Included:

- Mini PC
- Power supply with cable
- HDMI cable
- VESA mount
- Screws
- User manual

Manufacturer	GMKTec
Model	K12
Dimensions	154 × 115 × 73.6 mm
Housing material	Metal + plastic
Weight	926 g
Processor	AMD Ryzen 7 H255
Base clocking	3.7 GHz
Max. clocking	4.9 GHz
Power consumption	70 W
RAM type	DDR5 5600
RAM capacity	32 GB (DDR5, included, removable)
EMMC	No
SSD	M.2 2280 1 TB (included) 2 × M.2 2280 expansion slots, each up to 8 TB Total maximum capacity: 24 TB
2.5 ''HDD/SSD support	No
TF card reader	No

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Real-time clock start	Yes
BIOS support	Yes
TPM	TPM 2.0 support (software)
Video outputs	HDMI 2.1 ×1, DisplayPort 1.4 ×1, USB4.0 (Type-C, DP/PD/Data) ×2
Status indicator	Power status LED (white)
Wi-Fi	Wi-Fi 6E
Interface type	PCIe
Bluetooth	Bluetooth 5.2
Bluetooth interface	USB 2.0
3G	No
4G	No
Ethernet	2 × RJ45 (2.5G / 1G / 100M / 10M)
USB 2.0	2 × USB 2.0
USB 3.2	3 × USB 3.2
External memory expansion	No
Audio/video outputs	HDMI 2.1 ×1, DP 1.4 ×1, USB4.0 ×2 (DP/PD/Data), 3.5mm audio jack
Ethernet ports	RJ45 ×2 (2.5G)
Data transfer	Yes
Buttons	Power button
DC IN	Yes
Audio input/output	Jack 3.5 mm
Antennas	2 × FPC (Wi-Fi + BT)
Operating system	Windows 11 Pro (installed), Linux support
Operating temperature	0-40°C
Storage temperature	Not applicable
Humidity	Not applicable
Power supply	Input 100~240V 50/60Hz Output 19V/6.32A 120W,DC 5.5/2.5mm

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IR Remote Control	No
VESA	Yes
Radio bands	Wi-Fi 2.4G / 5G / 6G / Bluetooth
Max. transmitting power	20.5 dBm / 18.5 dBm / 7 dBm

Gross weight: 2140, Net weight: 926, Box length: 35,50, Box width: 20,50, Box height: 8,50, GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_others.pdf, Information about data generation: https://dataact.innpro.pl/GMKtec/6972570963945

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