

GMKtec K15 Mini PC Core Ultra 5 125U 16GB 1TB Win 11 Pro

Model: K15-16RAM

Manufacturer: GMKTEC

EAN: 6972570964614

Product Code: 1061394

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GMKtec K15 Core Ultra 5 125U 16GB 1TB Win 11 Pro Mini PC

The modern K15 mini PC offers much more than just a small size. The device combines a powerful Intel Core Ultra 5 125U processor, DDR5 memory, and an ultra-fast PCIe 4.0 drive, ensuring smooth operation for both office tasks and more demanding projects. Support for up to four 4K and 8K displays allows you to create a comfortable environment for multitasking, creative work, or data analysis. Add to that modern AI technologies, fast 2.5G LAN, and Wi-Fi 6E, which guarantee a stable connection and lightning-fast data transfer. The whole thing is enclosed in a compact case with an intelligent cooling system and impressive RGB backlighting.

Next-generation performance with Intel Core Ultra

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At the heart of the computer is an Intel Core Ultra 5 125U processor manufactured using the modern Intel 4 (4 nm) technology process. The unit offers 12 cores and 14 threads in a hybrid architecture (2 Performance cores, 8 Efficient cores, and 2 Low-Power Efficient cores), allowing for optimal task distribution between performance and energy efficiency. The maximum clock speed reaches 4.3 GHz, and 12 MB of cache memory ensures fast access to data when working with demanding applications. With intelligent power management, you can tailor your computer's performance to your current needs – Silent mode (15 W) ensures quiet operation during everyday tasks, Balance mode (25 W) offers a compromise between performance and quiet operation, while Performance mode (35 W) allows you to take full advantage of the hardware's capabilities under heavier loads.

Built-in AI for greater capabilities

The computer uses Intel AI Boost technology with a dedicated NPU unit that provides up to 11 TOPS of computing power for AI-based tasks. This allows AI applications to run faster and more efficiently, reducing the load on the CPU and graphics chip. This solution works well for video editing, voice assistants, and smart tools, among other things. The dedicated AI engine also improves the smoothness of video conferencing and enables more advanced image and sound processing. Transferring AI calculations to the NPU reduces the load on the CPU and limits heat generation, which translates into more stable and efficient system operation.

Intel Xe graphics and multi-screen support

Graphics processing is handled by the integrated Intel Graphics Xe chip, operating at up to 1850 MHz. The GPU ensures smooth operation of multimedia applications, support for high resolutions, and acceleration of many computational processes. Combined with a powerful processor, it allows you to work comfortably with graphics, creative projects, and video content. The computer allows you to connect up to four high-resolution monitors simultaneously thanks to HDMI 2.1, DisplayPort 1.4, USB4.0, and USB-C connectors. Support for 4K and 8K screens makes the device ideal for multitasking, where access to multiple applications at the same time is important.

Fast wired and wireless connectivity

Two 2.5 Gb/s LAN ports provide a stable internet connection, offering up to 2.5 times higher bandwidth than standard Gigabit Ethernet. This solution is ideal for working with NAS servers, server

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configurations, dual-network environments, or Multi-WAN systems, where stability and low latency are important. The computer also supports Wi-Fi 6E connectivity using the clear 6 GHz band, which translates into higher transmission speeds, lower latency, and more stable connections for streaming, cloud computing, and backup. In addition, Bluetooth 5.2 allows for convenient connection of wireless accessories such as headphones, keyboards, mice, and controllers.

Extensive set of ports and expansion options

Despite its compact design, the GMKtec K15 offers a rich set of ports on the front and rear panels. At your disposal are, among others, a USB 4.0 port, USB-C, two USB ports, three USB 3.2 ports, HDMI 2.1, DisplayPort 1.4, OCuLink connector, two CTIA audio jacks, and two 2.5G LAN ports. The OCuLink port, operating in the PCIe 4.0 x4 standard, allows you to connect external graphics cards or other expansion devices, which can significantly increase the capabilities of your computer in gaming and professional applications. However, please note that this port does not support hot-plugging.

Memory and drives that won't let you down

The Mini PC offers extensive storage and memory expansion options. Inside, there are three M.2 2280 PCIe 4.0 x4 slots that allow you to install SSDs with a total capacity of up to 24 TB. Such a large space will prove useful when working with large projects, archiving data, or creating a private file server. The computer also supports 16 GB of DDR5 5600 MHz memory in two SO-DIMM slots, allowing you to expand the RAM up to 96 GB. These parameters enable comfortable work with multiple applications simultaneously and support for more demanding work environments.

Advanced cooling and readiness for action

To maintain high performance even during intensive work, the computer is equipped with an intelligent cooling system with two fans. The upper module is responsible for cooling the processor, while the lower fan supports airflow throughout the case. The use of copper heat pipes, heat sinks, and convective airflow helps to effectively dissipate heat while reducing noise and dust accumulation. The cooling system also supports SSDs and RAM, ensuring stability under heavy loads. The whole thing is complemented by adjustable 13-mode RGB backlighting with a memory function. The computer comes with Windows 11 Pro pre-installed, so it is ready for work, entertainment, and modern AI applications right out of the box.

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Included in the set

- mini PC
- power supply
- HDMI cable
- VESA
- user manual

Manufacturer	GMKTec
Model	K15
Processor	Intel Core Ultra 5 125U
CPU architecture	12 cores / 14 threads (2P-Core + 8E-Core + 2LP-Core)
Process technology	Intel 4 (4 nm)
Cache memory	12 MB
Maximum clock speed	up to 4.3 GHz
TDP	up to 35 W
Graphics chip	Intel Xe Graphics
GPU frequency	up to 1850 MHz
AI computing power (GPU)	up to 7 TOPS
AI unit	Intel AI Boost with dedicated NPU
AI computing power (NPU)	up to 11 TOPS
RAM	DDR5 5600 MHz 16 GB
RAM slots	2 × SO-DIMM
Maximum RAM capacity	up to 96 GB

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SSD drives	M.2 2280 PCIe 4.0 x4
Number of SSD slots	3 × M.2
Maximum memory capacity	up to 24 TB (3 × 8 TB)
Monitor support	up to 4 screens simultaneously
Maximum resolution	up to 8K
Video outputs	HDMI 2.1, DisplayPort 1.4, USB4.0, USB-C
Ports (front and rear panel)	1 × USB4.0, 1 × USB-C, 2 × USB, 3 × USB 3.2, 1 × HDMI 2.1, 1 × DisplayPort 1.4, 1 × OCuLink (PCIe 4.0 x4, no hot-plug support), 2 × CTIA audio jack, 2 × 2.5 Gb/s LAN
Wireless connectivity	Wi-Fi 6E (6 GHz band), Bluetooth 5.2
Wired connectivity	2 × 2.5 Gb/s Ethernet (supports NAS / server / Multi-WAN / dual-network configuration)
Operating modes	Silent Mode – 15 W, Balance Mode – 25 W, Performance Mode – 35 W
Fans	2 × fan (CPU + system)
Backlight	adjustable RGB (13 modes) with settings memory function
Operating system	Windows 11 Pro

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