

Mini PC GMKtec M7 Ultra Ryzen 7 PRO 6850U 16GB 512GB Win 11 Pro



Model: M7Ultra

Manufacturer: GMKTEC

EAN: 6972570964478

Product Code: 303597

R14,945

M7 Ultra Ryzen 7 PRO 6850U 16GB RAM + 512GB SSD

The GMKtec M7 Ultra is a compact mini PC that combines the exceptional performance of the AMD Ryzen 7 PRO 6850U processor with advanced Radeon 680M graphics and DDR5 4800 MHz memory. Equipped with 16GB of RAM and a fast 512GB PCIe SSD, it ensures smooth operation of office, creative, and multimedia applications. With support for four 8K displays and extensive connectivity—including USB4.0, HDMI 2.1, Wi-Fi 6E, and Bluetooth 5.2—the M7 Ultra will meet the expectations of even the most demanding business users and professionals. Designed for intensive work, with a dual cooling system and extensive storage expansion options up to 16 TB, this mini PC is an exceptionally versatile and reliable tool.

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High-performance AMD Ryzen 7 PRO 6850U processor

At the heart of the device is an eight-core, sixteen-thread AMD Ryzen 7 PRO 6850U processor with 6nm technology and a clock speed of up to 4.7 GHz. This unit has been designed for professional applications, offering not only high computing power, but also efficient power management with a TDP of 35W–54W. As a result, the mini PC excels at multitasking, data processing, and demanding work environments.

Integrated AMD Radeon 680M graphics

Graphics rendering is handled by the integrated AMD Radeon 680M graphics chip, offering smooth multimedia, design, and office tasks. This solution is ideal for video editing, working with large presentations, and using graphics-accelerated applications.

DDR5 RAM and fast SSD drive

The device is equipped with 16 GB of DDR5 4800 MHz RAM, expandable to 64 GB (two SO-DIMM slots). This configuration ensures lightning-fast application loading, stable performance, and the ability to work with large files. A 512 GB PCIe 3.0 SSD is dedicated to user data, with the option of installing two M.2 2280 drives and expanding the storage space up to 16 TB, which is ideal for professionals and content creators.

Support for four 8K displays

The GMKtec M7 Ultra supports simultaneous connection to four monitors, including via HDMI 2.1, DisplayPort 2.0, and two USB4.0 ports with full DisplayPort support. The computer can display images at resolutions up to 8K at 60 Hz, significantly increasing productivity in multi-monitor work environments, control centers, and design stations.

Modern connectors and fast connectivity

The GMKtec M7 Ultra is equipped with a wide range of external connectors that make it easy to connect monitors, peripherals, and accessories. The front panel features two USB 3.2 Gen 2 ports, a USB 4.0 port with charging, data transfer, and DisplayPort (PD/DP/DATA) support, an OCuLink (PCIe

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4.0*4) connector, a 3.5 mm headphone/microphone jack (CTIA), and a power button. The rear panel offers two USB 2.0 ports, USB 4.0 PD/DP/DATA, HDMI 2.1 output, one DisplayPort 2.0 connector, two 2.5G RJ45 LAN ports, a Kensington Lock, and a DC IN power socket (19V, 6.32A). This configuration provides flexibility for multi-monitor work, fast data transfer, and stable network connectivity in any situation.

Stable wireless connections

The M7 Ultra offers modern wireless communication technologies – Wi-Fi 6E and Bluetooth 5.2 – which ensure a fast and stable connection to the network and accessories such as keyboards, mice, headphones, and printers. Support for the 6 GHz band allows for even better bandwidth and lower latency compared to previous standards.

Effective cooling and reliable operation

An efficient cooling system with dual fans keeps the operating temperature low even under heavy load. This allows the computer to maintain high stability during long-term operation, minimizing the risk of component overheating and ensuring quiet operation in the office or home studio.

Compact format and ready for professional applications

The GMKtec M7 Ultra Mini PC is designed to save space, measuring only 132 × 125 × 58 mm and weighing just 604 g. The device supports automatic power-on and Wake-on-LAN functions, making it ideal for server, office, and remote management environments. Full compliance with European standards ([including](#) 2014/53/EU) allows for trouble-free sale and use within the EU.

Included in the box

- Mini PC M7 Ultra
- User manual/warranty card
- DC power adapter
- AC power cable
- VESA mount
- HDMI cable

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Manufacturer	GMKtec
Model	M7Ultra
Dimensions	132 × 125 × 58 mm
Housing material	Metal, plastic
Weight	604 g
Processor	AMD Ryzen 7PRO 6850U
Max. clock speed	4.7 GHz
Power consumption	35-54 W
RAM	DDR5 4800MHz SO-DIMM (2 slots)
RAM capacity	16 GB
EMMC	No
SSD	M.2 2280 512 GB (factory), support for up to 8 TB / M.2 2280 SSD PCIe 4.0 (expansion) support for up to 8 TB
2.5" HDD/SSD support	No
TF card reader	No
Real-time clock start	Supported
BIOS support	Yes
TPM	TPM 2.0 support
Video outputs	HDMI 2.1, DP 2.0, 2 x USB 4.0
Status indicator	Power status LED
Wi-Fi	Wi-Fi 6
Interface type	PCIe
Bluetooth	Bluetooth 5.2
Bluetooth interface	BT5.2
Built-in Wi-Fi	Yes
Built-in Bluetooth	Yes
LAN	2 x 2.5G LAN (2500M / 1000M / 100M / 10M)

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USB 2.0	2 x USB-A 2.0
USB 3.2	2 x USB-A 3.2
External memory expansion	Yes (2 slots for M.2 2280 drives)
Audio/video outputs	HDMI 2.1, DP 2.0, 2x USB 4.0, 3.5 mm headphone jack
Ethernet ports	2 x RJ45 2.5 G
Data transfer	Yes
Buttons	Power button x1
DC IN	Yes
Audio input/output	1 x 3.5 mm headphone jack (input/output)
Antennas	Built-in dual antenna
Operating system	Windows 11 Pro installed, supports Linux, Ubuntu, Windows 10
Operating temperature	0°C to 40°C
Storage temperature	0°C to 40°C
Humidity	35%–80%RH, non-condensing
Power supply	DC IN 19V 6.32A =120W
IR remote control	No
VESA	Yes
Radio bands	Wi-Fi 6E / BT 5.2
Max. transmission power	18.5 dBm (theoretical values for AMD RZ616 Wi-Fi module)

GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_others.pdf, Gross weight: 1830, Net weight: 630, Box length: 18,50, Box width: 18,50, Box height: 11,50

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