# GMKTEC M7 Ultra Mini PC with Ryzen 7 PRO 6850U, 16 GB, and 1 TB

Model: M7ULTRA-16-1

Manufacturer: GMKTEC

EAN: 6972570964485

Product Code: 1219270

## R18,302

### M7 Ultra Ryzen 7 PRO 6850U 16 GB RAM + 1 TB 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 4800 MHz DDR5 memory. Equipped with 16 GB of RAM and a fast 1 TB PCIe SSD, it ensures smooth operation of office, creative, and multimedia applications. With support for four 8K displays and extensive connectivity—including USB 4.0, 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. Its design, optimized for intensive workloads with a dual-cooling system and extensive storage expansion capabilities up to 16 TB, makes this mini PC 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 the eight-core, sixteen-thread AMD Ryzen 7 PRO 6850U processor, featuring 6nm technology and a clock speed of up to 4.7 GHz. This processor was designed for professional applications, offering not only high computing power but also efficient power management with a TDP of 35W–54W. As a result, this 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, which offers smooth performance for multimedia, design, and office tasks. This solution is ideal for video editing, working with large presentations, and using graphics-accelerated applications.

## DDR5 RAM and a Fast SSD

The device is equipped with 16 GB of 4800 MHz DDR5 RAM, expandable up 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 1 TB PCIe 3.0 SSD is dedicated to user data, with the option to install two M.2 2280 drives and expand storage capacity up to 16 TB—making it the ideal solution for professionals and content creators.

## Support for Four 8K Displays

The GMKtec M7 Ultra supports simultaneous connection of up to four monitors, including via HDMI 2.1, DisplayPort 2.0, and two USB 4.0 ports with full DisplayPort support. The computer supports display resolutions of up to 8K at 60 Hz, which significantly boosts productivity in multi-monitor work environments, control centers, and design workstations.

## Modern Connectors and High-Speed Connectivity

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

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

## Stable Wireless Connections

The M7 Ultra features state-of-the-art wireless communication technologies—Wi-Fi 6E and Bluetooth 5.2—which ensure fast and stable connections to the network and accessories such as keyboards, mice, headphones, and printers. Support for the 6 GHz band enables even higher bandwidth and lower latency compared to previous standards.

## Efficient Cooling and Reliable Operation

An efficient cooling system with dual fans keeps operating temperatures low even under heavy load. As a result, the computer maintains high operational stability during prolonged use, minimizing the risk of component overheating and ensuring quiet operation in an office or home studio.

## Compact design and professional-grade readiness

The GMKtec M7 Ultra Mini PC is designed to save space—it measures just 132 × 125 × 58 mm and weighs only 604 g. The device supports automatic power-on and Wake-on-LAN functions, making it an ideal solution for server environments, offices, and remote management. Full compliance with European standards (including2014/53/EU) ensures trouble-free sales and use throughout the EU.

## Included in the package

- M7 Ultra Mini PC
- 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 |
| **Case material** | Metal, plastic |
| **Weight** | 604 g |
| **Processor** | AMD Ryzen 7PRO 6850U |
| **Max. clock speed** | 4.7 GHz |
| **Power consumption** | 35–54 W |
| **RAM** | DDR5 4800 MHz SO-DIMM (2 slots) |
| **RAM capacity** | 16 GB |
| **eMMC** | No |
| **SSD** | M.2 2280 1 TB (pre-installed), supports up to 8 TB / M.2 2280 PCIe 4.0 SSD (expansion), supports up to 8 TB |
| **2.5" HDD/SSD support** | No |
| **TF card reader** | No |
| **Real-time clock** | 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) |
| **USB 2.0** | 2 x USB-A 2.0 |

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| **USB 3.2** | 2 x USB-A 3.2 |
| **External Storage 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 pre-installed; supports Linux, Ubuntu, and 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. transmit power** | 18.5 dBm (theoretical values for the AMD RZ616 Wi-Fi module) |

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