GMKtec M2 Pro

GMKtec M2 Pro Mini PC User Manual

Model: M2 Pro

1. PRODUCT OVERVIEW

The GMKtec M2 Pro Mini PC is a compact and powerful desktop computer designed for various applications, from daily office tasks and home entertainment to light gaming and content creation. It features an 11th generation Intel Core i7-1195G7 processor, ample memory, and fast storage, all within a small form factor.

Key Features:

- **Processor:** 11th Gen Intel Core i7-1195G7 (up to 4.8 GHz, 4 Cores, 8 Threads, 12MB Cache)
- **Memory:** 32GB DDR4 SODIMM (dual-channel, expandable up to 64GB)
- **Storage:** 1TB M.2 2280 NVMe PCIe 3.0 SSD (expandable to 2TB, plus M.2 2242 SATA slot for up to 2TB)
- **Graphics:** Intel Iris Xe Graphics G7 96EU
- **Display Output:** Supports 4K UHD on up to 3 screens simultaneously (2x HDMI, 1x USB Type-C)
- **Network:** 2.5Gbps LAN (RJ45), WiFi 6 (2.4G+5G), Bluetooth 5.2
- **Operating System:** Windows 11 Pro

2. PACKAGE CONTENTS

Please check the box for the following items:

- 1x GMKtec Nucbox M2 Pro Mini PC
- 1x DC Power Plug
- 1x HDMI Cable
- 1x VESA Mount with Screws
- 1x User Manual (this document)

Image: Contents of the GMKtec M2 Pro Mini PC retail package, including the mini PC, power adapter, HDMI cable, VESA mount, and user manual.

3. HARDWARE OVERVIEW

Front Panel

The front panel provides convenient access to essential ports and the power button.

INTEL CORE I7-1195G7, THE BEASE FREQUENCY OF PROCESSOR IS 3.4GHZ, UP TO 5.0GHZ

intel 1195G7

| PERFORMANCE | RAM 32GB ROM 1TB | intel Intel Iris Xe Graphics |

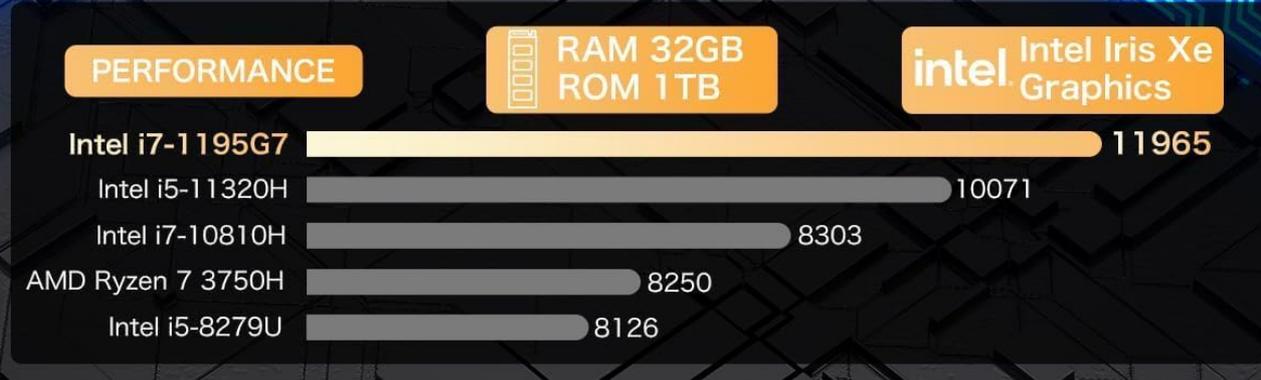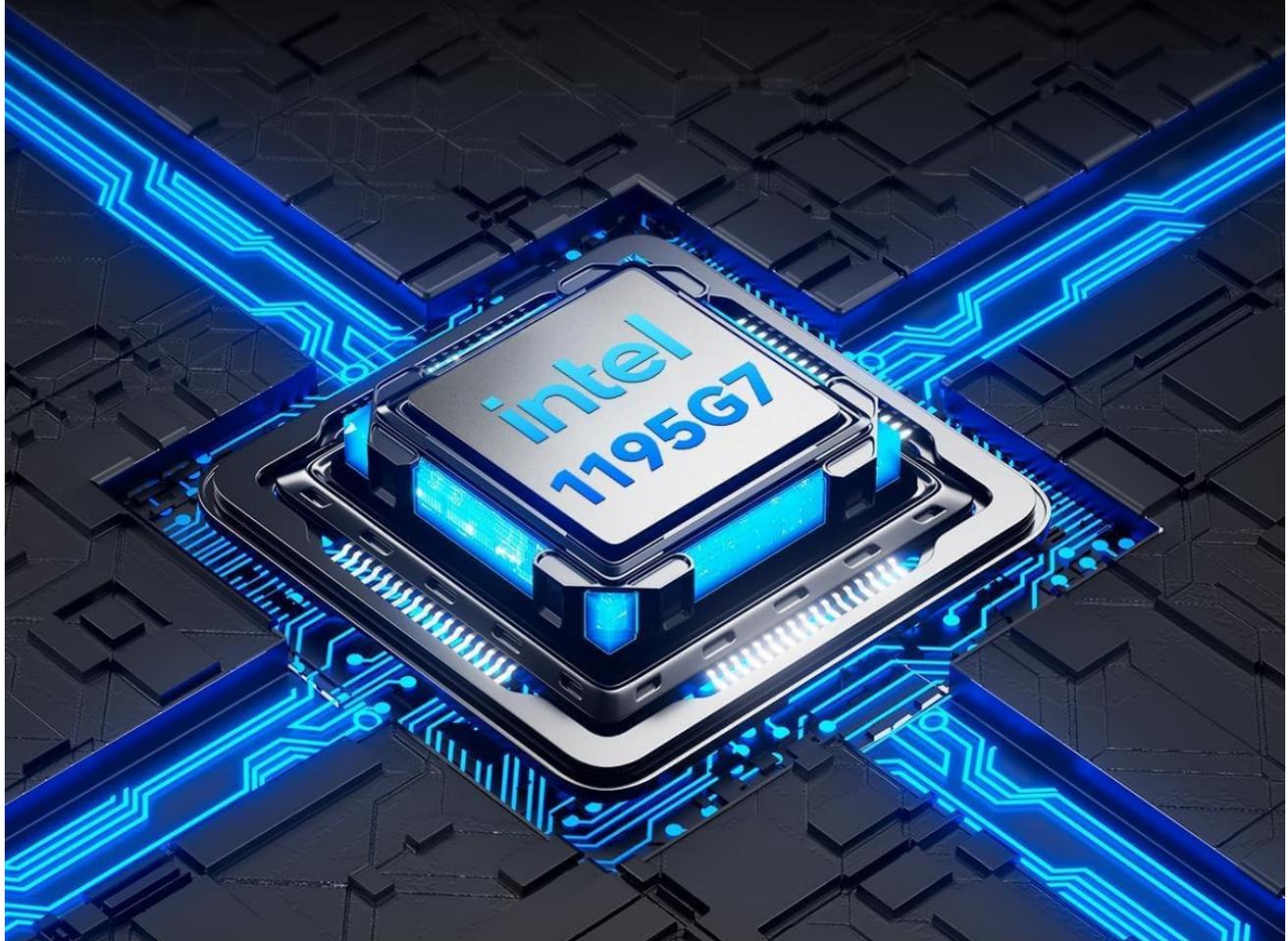| Intel i7-1195G7 | 11965 |
Intel i5-11320H	10071
Intel i7-10810H	8303
AMD Ryzen 7 3750H	8250
Intel i5-8279U	8126

Image: Front view of the GMKtec M2 Pro Mini PC, showing two USB 3.2 ports and the power button.

Rear Panel

The rear panel houses the primary connectivity options for display, network, and additional peripherals.

Image: Diagram illustrating the various ports on the rear of the GMKtec M2 Pro Mini PC, including Audio (3.5mm CTIA), Type-C (DP/DATA), USB-A 3.2x2, HDMI (4K@60Hz)x2, RJ45 (2.5G), and DC power input.

Internal Components

The GMKtec M2 Pro features an Intel Core i7-1195G7 processor, dual-channel DDR4 RAM, and an M.2 NVMe SSD for high performance. It also includes a dedicated cooling fan for efficient heat dissipation.
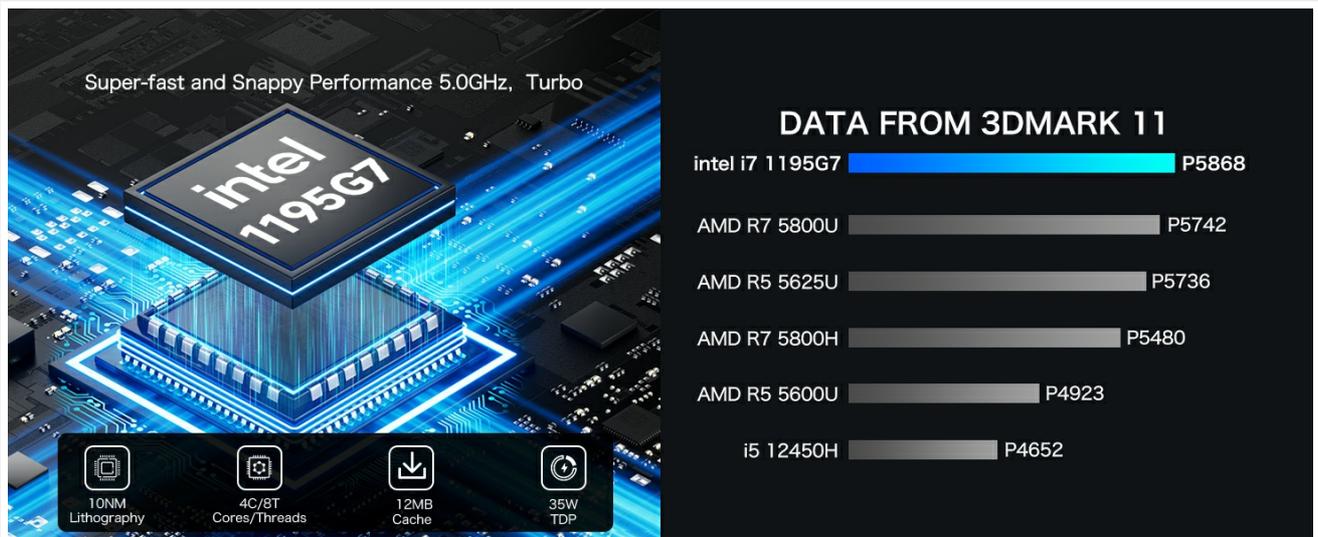

Image: Visual representation of the Intel Core i7-1195G7 processor, highlighting its 4 cores, 8 threads, 12MB cache, and 35W TDP, along with a performance comparison chart.

Image: Diagram showing the dual-channel DDR4 RAM slots (expandable up to 64GB) and M.2 2280 NVMe SSD slot (expandable up to 2TB), along with an M.2 2242 SATA slot for additional storage expansion.

Your browser does not support the video tag.

Video: An official product video from GMKtec-US showcasing the M2 Pro Mini PC's features, including its compact size, various ports, internal components like the Intel i7-1195G7 processor, RAM, SSD, cooling system, and multi-display capabilities.

4. SETUP GUIDE

4.1 Connecting the Power Adapter

1. Connect the DC power plug to the DC-IN port on the rear of the Mini PC.
2. Plug the power adapter into a wall outlet.

4.2 Connecting to a Display

The Mini PC supports up to three displays simultaneously.

1. Connect your monitor(s) to the Mini PC using the provided HDMI cable or a compatible USB Type-C cable. The Mini PC has two HDMI ports and one USB Type-C port, all supporting 4K@60Hz.
2. Ensure your monitor is powered on and set to the correct input source.

4.3 Connecting Peripherals

1. Connect your USB keyboard and mouse to any available USB-A ports on the Mini PC.
2. For wired network access, connect an Ethernet cable from your router or modem to the RJ45 2.5G LAN port on the rear panel.
3. For wireless network access, ensure the Mini PC is within range of a WiFi 6 network.

4.4 Initial Boot and Operating System Setup

1. Press the power button on the front panel. The power indicator light will illuminate.
2. Follow the on-screen instructions to complete the Windows 11 Pro initial setup, including language, region, network connection, and user account creation.

4.5 VESA Mounting

The GMKtec M2 Pro Mini PC can be mounted to the back of a compatible monitor or to a wall using the included VESA mount.

1. Attach the VESA mount bracket to the desired location (monitor or wall) using the provided screws.
2. Slide the Mini PC onto the VESA mount until it clicks securely into place.

Image: Demonstrates both desktop placement and VESA installation options for the GMKtec M2 Pro Mini PC, showing its versatility in different setups.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **Power On:** Press the power button on the front panel.
- **Power Off:** Click the Windows Start button, then select Power > Shut down. Alternatively, press and hold the power button for 5 seconds to force a shutdown (not recommended for regular use).

5.2 Multi-Display Configuration

The Mini PC supports connecting up to three 4K displays simultaneously for enhanced productivity or immersive experiences.

1. Connect your displays to the available HDMI and USB Type-C ports.
2. Once connected, right-click on the desktop, select 'Display settings', and configure your displays (e.g., extend, duplicate) as needed.

Image: The GMKtec M2 Pro Mini PC connected to three external monitors, demonstrating its triple display capability for various

5.3 Network Connectivity

- **Wired (Ethernet):** Connect an RJ45 Ethernet cable to the 2.5G LAN port for high-speed internet access.
- **Wireless (WiFi):** The Mini PC supports WiFi 6 for faster and more stable wireless connections. To connect, click the network icon in the taskbar, select your desired WiFi network, and enter the password.
- **Bluetooth:** Bluetooth 5.2 allows for connecting wireless peripherals such as keyboards, mice, and headphones. Access Bluetooth settings via Windows Settings > Bluetooth & devices.

Image: Illustration of the 2.5G High Speed Ethernet port (RJ45 Gigabit Network) on the GMKtec M2 Pro, showing read-write and transmission speeds compared to 1000Mbps connections.

6. Maintenance

6.1 Cleaning the Device

To ensure optimal performance and longevity, regularly clean your Mini PC:

- Use a soft, dry cloth to wipe the exterior of the device.
- For dust accumulation in vents, use compressed air. Ensure the device is powered off before cleaning.
- Avoid using liquid cleaners directly on the device.

6.2 Upgrading RAM and SSD

The GMKtec M2 Pro is designed for easy disassembly to facilitate RAM and SSD upgrades.

Image: Exploded view of the GMKtec M2 Pro Mini PC, demonstrating its quick disassembly design without tools, showing the easy-to-remove lid, cooling fan, DDR4 RAM, NVMe SSD, SATA slot, and cooling vents.

1. Power off the Mini PC and disconnect all cables.
2. Carefully remove the top lid of the Mini PC.
3. Locate the RAM slots or M.2 SSD slots.
4. Install or replace components as needed, ensuring they are properly seated.
5. Replace the lid securely.

Note: Always handle internal components with care and consider consulting a professional if you are unsure about the upgrade process.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your GMKtec M2 Pro Mini PC.

7.1 No Power

- Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check if the power adapter's indicator light (if any) is on.

7.2 No Display Output

- Confirm that the HDMI or USB Type-C cable is securely connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source (e.g., HDMI 1, HDMI 2, USB-C).
- Try connecting to a different display or using a different cable to rule out faulty components.

7.3 Network Connectivity Issues

- **Wired:** Check the Ethernet cable connection to both the Mini PC and your router/modem. Verify router/modem status.
- **Wireless:** Ensure WiFi is enabled in Windows settings. Check if the Mini PC is connected to the correct network and the password is accurate. Restart your router/modem.

7.4 Slow Performance

- Close unnecessary applications running in the background.

- Ensure the Mini PC has adequate ventilation and is not overheating.
- Check for available Windows updates and driver updates.
- Run a disk cleanup or defragmentation (for HDD, not typically needed for SSD).

8. SPECIFICATIONS

Feature	Specification
Brand	GMKtec
Model Number	M2 Pro
Operating System	Windows 11 Pro
Processor	Intel Core i7-1195G7 (4 Cores, 8 Threads, up to 4.8 GHz, 12MB Cache)
Graphics	Intel Iris Xe Graphics G7 96EU
RAM	32GB DDR4 SODIMM (3200 MHz, Dual Channel, expandable to 64GB)
Storage	1TB M.2 2280 NVMe PCIe 3.0 SSD (expandable to 2TB)
Additional Storage Slot	M.2 2242 SATA (expandable to 2TB)
Wireless Connectivity	WiFi 6 (802.11ax, 2.4GHz/5GHz), Bluetooth 5.2
Ethernet	2.5Gbps RJ45 LAN Port
USB Ports	4x USB 3.0 Ports (USB-A 3.2), 1x USB Type-C (USB4.0, DP/DATA)
Video Output	2x HDMI (4K@60Hz), 1x USB Type-C (4K@60Hz)
Audio	3.5mm CTIA Audio Jack
Dimensions	6.46 x 6.26 x 4.76 inches (Package)
Item Weight	3.23 pounds

9. WARRANTY AND SUPPORT

GMKtec products are designed for reliability and performance. For warranty information, please refer to the warranty card included in your product packaging or visit the official GMKtec website.

If you encounter any issues or require technical assistance, please contact GMKtec customer support through their official channels. When contacting support, please have your product model number (M2 Pro) and purchase details readily available.

For the latest drivers, software updates, and additional support resources, please visit the GMKtec support page.