GEEKOM IT12

GEEKOM Mini PC IT12 User Manual

Model: IT12 (Intel i7-1260P, 32GB RAM, 1TB SSD)

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your GEEKOM Mini PC IT12. This compact desktop computer is equipped with a 12th Gen Intel Core i7-1260P processor, 32GB of DDR4 RAM, and a 1TB NVMe PCIe 4.0 SSD, running Windows 11 Pro. Its design focuses on efficient performance and versatile connectivity for various applications.

2. SETUP GUIDE

2.1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the "What's in the Box" section are present and undamaged.

- 1x GEEKOM Mini PC IT12
- 1x HDMI Cable
- 1x VESA Mount
- 1x Power Adapter
- 1x User Guide

Image: GEEKOM Mini PC IT12 and its accessories, including the mini PC unit, power adapter, HDMI cable, and VESA mount.

Unboxing Video Guide

Your browser does not support the video tag.

Video: A hands-on unboxing of the GEEKOM Mini PC, showing the contents of the box and the initial presentation of the device and its accessories.

2.2. Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable to connect your monitor to one of the HDMI 2.0 ports on the back of the Mini PC. Alternatively, use a USB4 port for DisplayPort output.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB 3.2 Gen 2 ports on the front or USB ports on the back.
3. **Connect Power:** Connect the power adapter to the DC-in port on the back of the Mini PC, then plug the adapter into a power outlet.
4. **Network Connection:** For a wired connection, connect an Ethernet cable to the 2.5GbE LAN port. For wireless, ensure the Wi-Fi antenna is connected (if external) or rely on the internal Wi-Fi 6E.

Image: Rear view of the GEEKOM Mini PC IT12, showing the arrangement of ports including DC-in, USB4, HDMI, 2.5GbE LAN, USB 3.2, and USB 2.0. Cables are connected to some ports.

2.3. First Boot

Press the power button on the front of the Mini PC. The system will boot into Windows 11 Pro. Follow the on-screen instructions to complete the initial Windows setup.

3. OPERATING INSTRUCTIONS

3.1. Power On/Off

- **Power On:** Press the power button on the front panel.
- **Power Off:** Click the Start button in Windows, then select Power > Shut down.
- **Restart:** Click the Start button in Windows, then select Power > Restart.

3.2. Display Configuration

The GEEKOM Mini PC IT12 supports up to four displays simultaneously via its dual USB4 (8K DP1.4) and dual HDMI 2.0 (4K@120Hz) ports. To configure multiple displays in Windows 11:

1. Right-click on the desktop and select "Display settings".
2. Under "Multiple displays", you can detect, identify, and arrange your displays.
3. Choose your preferred display mode (e.g., Extend these displays, Duplicate these displays).
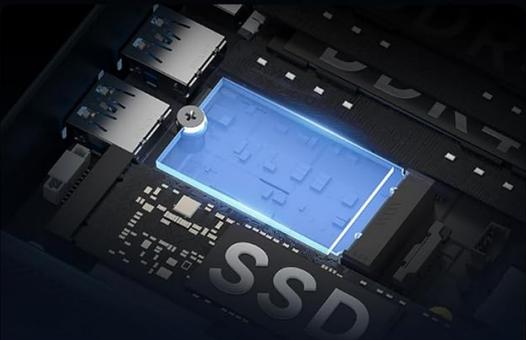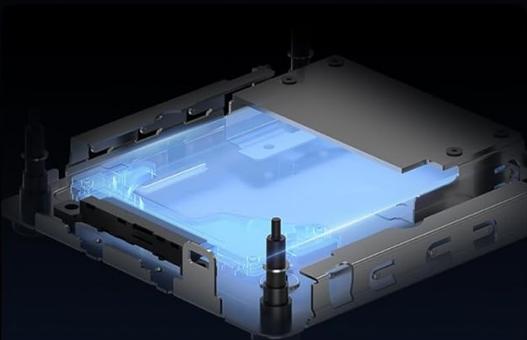

Image: A GEEKOM Mini PC IT12 connected to two large monitors and a tablet, demonstrating its quad-display capability for a multi-screen workstation.

3.3. Network and Connectivity

- **Wired LAN:** The 2.5Gb Ethernet port provides high-speed internet access.
- **Wi-Fi 6E:** Connect to wireless networks for fast and stable internet.
- **Bluetooth 5.2:** Pair with compatible Bluetooth devices such as keyboards, mice, and headphones.

4. Maintenance and Upgrades

4.1. Cooling System

The IT12 Mini PC features an upgraded IceBlast cooling system with an all-copper module and a silent fan. To ensure optimal performance and longevity, keep the ventilation grilles clear of obstructions. Regularly clean dust from the vents using compressed air.

Image: An exploded view diagram illustrating the internal components of the GEEKOM Mini PC IT12, highlighting the IceBlast cooling system with its fan and copper heat pipes.

4.2. Storage and Memory Expansion

The GEEKOM Mini PC IT12 offers flexible upgrade options:

- **RAM:** The 32GB DDR4 RAM can be expanded up to 96GB.
- **NVMe SSD:** The 1TB NVMe PCIe 4.0 SSD can be expanded up to 4TB.
- **Additional Storage:** The unit includes additional slots for M.2 2242 SATA SSD (up to 2TB) and 2.5" SATA HDD (up to 4TB) expansion.

For detailed instructions on how to access internal components for upgrades, please refer to the official GEEKOM support resources or consult a qualified technician.

Image: A detailed diagram showcasing the expandable storage options within the GEEKOM Mini PC IT12, illustrating slots for M.2 NVMe PCIe SSD, M.2 SATA SSD, and a 2.5-inch SATA HDD/SSD.

5. TROUBLESHOOTING

5.1. 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 the power adapter for any visible damage.

5.2. No Display Output

- Confirm the display cable (HDMI or USB4) is firmly connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source.
- Try a different display cable or monitor if available.

5.3. Network Connectivity Issues

- **Wired:** Check the Ethernet cable connection and router status.
- **Wireless:** Verify Wi-Fi is enabled in Windows settings and you are connected to the correct network. Restart your router if necessary.

5.4. System Performance Issues

- Ensure the Mini PC has adequate ventilation and is not overheating.
- Close unnecessary applications running in the background.
- Check for available Windows updates and driver updates.

6. SPECIFICATIONS

Feature	Detail
Processor	12th Gen Intel Core i7-1260P (12 Cores, 16 Threads, up to 4.70 GHz, 24MB Cache)
Graphics	Intel Iris Xe Graphics (Integrated)
RAM	32GB DDR4 (Expandable to 96GB)
Storage	1TB NVMe PCIe 4.0 SSD (Expandable to 4TB) + M.2 2242 SATA SSD slot (up to 2TB) + 2.5" SATA HDD (up to 4TB)
Operating System	Windows 11 Pro
Video Output	2x USB4 (8K DP1.4), 2x HDMI 2.0 (4K@120Hz) - Supports Quad Display
USB Ports	2x USB4, 3x USB 3.2 Gen 2, 1x USB 2.0
Network	2.5Gb Ethernet, Wi-Fi 6E, Bluetooth 5.2
Card Reader	SD Card Reader (UHS-II)
Dimensions (LxWxH)	4.6 x 4.4 x 1.9 inches
Weight	3.3 pounds

7. ENERGY EFFICIENCY

The GEEKOM Mini PC IT12 is designed for low power consumption, making it an energy-efficient alternative to traditional desktop PCs. Its 12th Gen Intel Core P-series CPU (28W single-CPU power draw) consumes significantly less power than high-performance H/HK series processors (45W+), reducing electricity costs and enabling 24/7 reliable operation with a quiet experience.

Your browser does not support the video tag.

Video: A comparison demonstrating the energy consumption between a traditional desktop PC and the GEEKOM Mini PC IT12 under both light and heavy workloads.

8. WARRANTY AND SUPPORT

Your GEEKOM Mini PC IT12 comes with a 3-year limited warranty. For technical assistance or warranty claims, please contact GEEKOM support through the following channels:

- **Amazon Seller Support:** Log into your Amazon buyer's account, find your order, and click "Get help" for product assistance.
- **Email Support:** Send an email to the After-sales Team at shirley.li@geekom.tw.

GEEKOM is committed to providing dedicated US-based technical support and ensures full certification including CE, FCC, CB, and CC for guaranteed safety and compliance.