GEEKOM Mini IT12

GEEKOM Mini IT12 Mini PC User Manual

Model: Mini IT12

1. INTRODUCTION

This user manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your GEEKOM Mini IT12 Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

2. WHAT'S IN THE BOX

Upon opening your GEEKOM Mini IT12 package, you should find the following items:

- 1 x GEEKOM Mini IT12 Mini PC
- 1 x HDMI Cable
- 1 x VESA Mount
- 1 x Power Adapter
- 1 x User Guide (this document)

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Video: Unboxing GEEKOM Mini IT12. This video demonstrates the unboxing process and shows all included components.
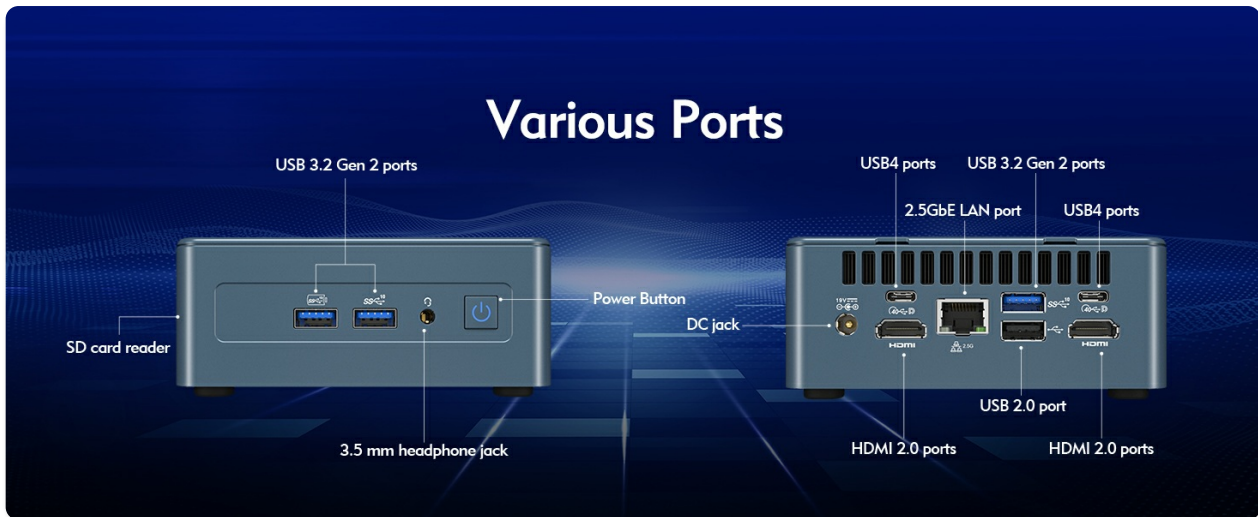
Image: The GEEKOM Mini IT12 shown with its VESA mount, demonstrating its compact size and mounting capability.

3. PRODUCT OVERVIEW

The GEEKOM Mini IT12 is a compact yet powerful mini PC designed for various computing needs. It features a robust processor, ample memory, and versatile connectivity options.

3.1 Front Panel

Image: Detailed view of the front and rear ports on the GEEKOM Mini IT12.

- **SD Card Reader:** For reading and writing data to SD cards.
- **USB 3.2 Gen 2 Ports (x2):** High-speed data transfer ports.
- **3.5 mm Headphone Jack:** For audio output to headphones or speakers.
- **Power Button:** To power on/off the device.

3.2 Rear Panel

- **DC Jack:** Power input for the Mini PC.
- **USB4 Ports (x2):** High-speed data transfer and display output, supporting up to 8K resolution.
- **2.5GbE LAN Port:** For high-speed wired network connection.
- **USB 3.2 Gen 2 Port (x1):** High-speed data transfer port.
- **USB 2.0 Port (x1):** Standard USB port for peripherals.
- **HDMI 2.0 Ports (x2):** For connecting to displays, supporting up to 4K resolution.

4. SETUP

Follow these steps to set up your GEEKOM Mini IT12 Mini PC:

1. **Connect to a Display:** Use an HDMI cable to connect the Mini IT12 to your monitor or TV. The device supports up to four displays simultaneously via its HDMI and USB4 ports.

2. **Connect Peripherals:** Plug in your keyboard, mouse, and any other USB devices into the available USB ports.

3. **Connect to Network:** For wired internet, connect an Ethernet cable to the 2.5GbE LAN port. For wireless internet, the device supports Wi-Fi 6E.

4. **Connect Power:** Plug the power adapter into the DC Jack on the rear panel, then plug the adapter into a power outlet.

5. **Power On:** Press the power button on the front panel to turn on the Mini PC.

5. OPERATING

The GEEKOM Mini IT12 comes pre-installed with Windows 11 Pro, offering a familiar and user-friendly operating environment.

5.1 Initial Boot and Windows Setup

On the first boot, you will be guided through the Windows 11 Pro setup process. Follow the on-screen instructions to configure your language, region, network, and user account settings.

5.2 Multi-Display Support

The Mini IT12 supports up to four displays simultaneously, allowing for enhanced productivity and immersive experiences. Connect your displays to the available HDMI 2.0 ports and USB4 ports. You can configure display settings within Windows 11 Pro (Right-click on desktop > Display settings).

Storage Expansion

- **DDR4** Up to 64GB Dual-channel DDR4-3200 Memory
- **SSD** M.2 2280 PCIe Gen 4*4 SSD, up to 2TB
- **SSD** M.2 2242 SATA SSD slot, up to 1TB
- **HDD** 2.5" SATA HDD expansion, up to 2TB

Image: The GEEKOM Mini IT12 demonstrating its capability to support four screens simultaneously for enhanced productivity.

5.3 Wireless Connectivity

The Mini IT12 is equipped with Wi-Fi 6E and Bluetooth 5.2 for fast and reliable wireless connections. Connect to your wireless network via Windows settings and pair Bluetooth devices as needed.

Image: Illustration of the GEEKOM Mini IT12's powerful Wi-Fi 6E and Bluetooth 5.2 capabilities, ideal for wireless peripherals and fast internet.

6. MAINTENANCE AND UPGRADES

The GEEKOM Mini IT12 offers options for memory and storage expansion to enhance its performance and capacity.

6.1 Expanding RAM

The Mini IT12 supports dual-channel DDR4 SODIMM memory, expandable up to 64GB. Refer to the video below for detailed instructions on how to expand the RAM.

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Video: How to expand RAM in GEEKOM Mini IT12. This video guides you through the process of installing additional RAM modules.

6.2 Installing an SSD

The Mini IT12 includes an M.2 2280 PCIe Gen 4 x4 SSD slot, expandable up to 2TB, and an M.2 2242 SATA SSD slot, expandable up to 1TB. Follow the video instructions for SSD installation.

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Video: How to install an SSD in GEEKOM Mini IT12. This video demonstrates the steps for adding an SSD to your Mini PC.

6.3 Installing a Hard Disk Drive (HDD)

The Mini IT12 also features a 2.5" SATA HDD (7mm) slot, expandable up to 2TB. Watch the video below for guidance on HDD installation.

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Video: How to install an HDD in GEEKOM Mini IT12. This video provides instructions for installing a hard disk drive.

7. TROUBLESHOOTING

If you encounter issues with your GEEKOM Mini IT12, try the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet or power adapter if available.

- **No Display:** Check all HDMI/USB4 cable connections to your monitor. Ensure the monitor is powered on and set to the correct input source.
- **No Internet Connection:** For wired connections, verify the Ethernet cable is properly connected. For Wi-Fi, check your router and ensure Wi-Fi is enabled in Windows settings.
- **Slow Performance:** Close unnecessary applications. Check for background updates. Consider upgrading RAM or storage if performance issues persist.
- **Peripheral Not Detected:** Try connecting the peripheral to a different USB port. Ensure drivers are up to date.

For further assistance, please refer to the Warranty and Support section.

8. SPECIFICATIONS

Below are the key specifications for the GEEKOM Mini IT12 Mini PC:

Feature	Specification
Processor	12th Gen Intel Core i7-12650H (10 Cores/16 Threads, up to 4.7GHz)
Graphics	Intel Iris Xe Graphics eligible
RAM	32GB DDR4 RAM (Dual-channel, expandable up to 64GB)
Storage	1TB PCIe Gen 4 SSD (expandable up to 2TB), M.2 2242 SATA SSD slot (expandable up to 1TB), 2.5" SATA HDD slot (expandable up to 2TB)
Operating System	Windows 11 Pro
Video Output	2x HDMI 2.0 (4K), 2x USB4 (8K) - Supports up to 4 displays
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.2
LAN	2.5GbE LAN Port
Ports	2x USB4, 3x USB 3.2 Gen 2, 1x USB 2.0, 2x HDMI 2.0, 1x SD Card Reader, 1x 3.5mm Headphone Jack, 1x DC Jack
Dimensions	4.6 x 4.4 x 1.79 inches
Weight	1.4 pounds

Image: An overview of the GEEKOM Mini IT12 highlighting its core specifications and features.

9. WARRANTY AND SUPPORT

Your GEEKOM Mini IT12 Mini PC is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official GEEKOM website.

For technical support, troubleshooting assistance, or service inquiries, please contact GEEKOM customer support through their official channels. You can typically find contact information on the GEEKOM website or in the included user guide.

Online Resources:

- GEEKOM Official Website: www.geekompc.com
- Customer Support Email: support@geekompc.com