Beelink GTR

Beelink GTR Mini PC User Manual

Model: GTR - AMD Ryzen 5 3550H

1. PRODUCT OVERVIEW

The Beelink GTR Mini PC is a compact and powerful desktop computer designed for various applications, from business tasks to gaming. It features an AMD Ryzen 5 3550H processor, 8GB of DDR4 RAM, and a 256GB SSD for fast performance. The system supports Windows 10 Pro (upgradeable to Windows 11) and offers extensive connectivity options.

Image 1.1: Front view of the Beelink GTR Mini PC, showing the power button, CLR CMOS button, USB ports, audio jack, and Type-C port.

Key Features:

- **Processor:** AMD Ryzen 5 3550H (Quad-core, eight-thread, up to 3.7GHz)
- **Graphics:** Radeon Vega 8 Graphics (1200 MHz)
- **Memory:** 8GB DDR4 RAM (expandable up to 64GB)
- **Storage:** 256GB SSD (extensible)
- **Operating System:** Windows 10 Pro (supports Windows 11)
- **Connectivity:** WiFi 6 (802.11ax), Bluetooth 5.0, Dual HDMI, DisplayPort, Type-C, multiple USB ports
- **Security:** Fingerprint login support
- **Cooling:** Dual fan system with 3 heat conduction tubes
- **Build:** Magnesium Alloy chassis

Image 1.2: Overview of key features including dimensions (168x120x39 MM), AMD Ryzen 5 3550H Processor, Fingerprint login, and Extensible SSD + DDR.

Image 1.3: Close-up view highlighting the Magnesium Alloy construction of the Mini PC.

2. SETUP GUIDE

2.1 Unpacking and Inspection

Carefully remove the Mini PC and all accessories from the packaging. Inspect for any signs of damage. Retain the packaging for future transport or service needs.

2.2 Connecting Peripherals

1. **Monitor:** Connect your monitor(s) to the Mini PC using the HDMI, DisplayPort, or Type-C video outputs. The device supports dual HDMI and a DisplayPort for multi-monitor setups.
2. **Keyboard and Mouse:** Connect your USB keyboard and mouse to the available USB ports on the front or rear of the Mini PC.
3. **Network:** For a wired connection, connect an Ethernet cable to the RJ45 port. For wireless, ensure your WiFi network is available.
4. **Audio:** Connect speakers or headphones to the 3.5mm audio jack if desired.

Image 2.1: Front and rear views of the Mini PC, illustrating the various ports for connecting peripherals.

2.3 Powering On

1. Connect the power adapter to the DC-in port on the Mini PC and then plug it into a power outlet.
2. Press the power button located on the front of the device. The power indicator light will illuminate.
3. Follow the on-screen instructions to complete the initial Windows setup.

3. OPERATING INSTRUCTIONS

3.1 Initial Windows Configuration

Upon first boot, Windows will guide you through the setup process. This includes selecting your region, keyboard layout, creating a user account, and setting up network connections. If prompted, connect to your WiFi network using the provided credentials.

3.2 Network Connectivity

- **Wired Ethernet:** If an Ethernet cable is connected, the system should automatically establish a wired network connection.
- **Wireless (WiFi 6):** To connect to a wireless network, navigate to the network settings in Windows, select your desired WiFi network, and enter the password. The Beelink GTR supports WiFi 6 for faster and more stable wireless connections.

Image 3.1: Illustration of WiFi 6 capabilities, indicating faster speeds and reduced latency compared to previous WiFi standards.

3.3 Fingerprint Login

The Beelink GTR Mini PC supports fingerprint login for enhanced security and convenience. To set this up:

1. Go to Windows Settings > Accounts > Sign-in options.
2. Locate the 'Windows Hello Fingerprint' option and follow the on-screen instructions to register your fingerprint.

4. MAINTENANCE

4.1 Cleaning

To ensure optimal performance and longevity, keep the Mini PC clean. Use a soft, dry cloth to wipe the exterior. For dust accumulation in vents, use compressed air. Do not use liquid cleaners directly on the device.

4.2 Software Updates

Regularly update your Windows operating system and drivers to maintain security and performance. Windows Update can be accessed via Settings > Update & Security > Windows Update.

4.3 Storage and Memory Expansion

The Beelink GTR Mini PC allows for storage and memory upgrades. Refer to the internal layout image for guidance.

Image 4.1: Exploded view of the Mini PC, showing internal components and potential areas for SSD and DDR expansion.

To upgrade:

- Ensure the device is powered off and unplugged.
- Carefully open the chassis according to the service manual (not included here, but typically available from manufacturer).
- Install compatible SSDs (M.2 NVMe or 2.5-inch SATA) or DDR4 RAM modules.
- Close the chassis securely.

4.4 Cooling System

The Mini PC features a dual-fan cooling system with three heat conduction tubes to manage thermal performance. Ensure the vents are not obstructed to allow for proper airflow.

Image 4.2: Diagram illustrating the dual fan cooling system with three heat conduction tubes.

5. TROUBLESHOOTING

5.1 No Power

- Verify the power adapter is securely connected to both the Mini PC and a working power outlet.
- Ensure the power button is pressed firmly.
- Test the power outlet with another device.

5.2 No Display Output

- Check that the monitor is powered on and the video cable (HDMI, DisplayPort, or Type-C) is securely connected to both the Mini PC and the monitor.
- Ensure the correct input source is selected on your monitor.
- Try a different video cable or monitor if available.

5.3 Network Connectivity Issues

- For wired connections, check the Ethernet cable and router status.
- For wireless connections, ensure WiFi is enabled in Windows, your network is selected, and the password is correct. Restart your router if necessary.

5.4 System Unresponsive / Freezing

- Press and hold the power button for 5-10 seconds to force a shutdown, then restart the system.
- If issues persist, consider using the 'CLR CMOS' button on the front panel. This will reset BIOS settings to default. **Ensure the device is powered off and unplugged before pressing the CLR CMOS button.**

6. SPECIFICATIONS

The following table details the technical specifications of the Beelink GTR Mini PC:

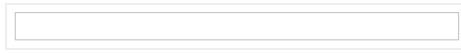| Component	Specification
Processor	AMD Ryzen 5 3550H (4 GHz, AMD R Series)
Graphics	Radeon Vega 8 Graphics (Dedicated, 1200 MHz)
RAM	8 GB DDR4 (Max 64 GB)
Storage	256 GB SSD (Serial ATA-300 interface)
Operating System	Windows 10 Pro (OS)
Max Screen Resolution	3840 x 2160 pixels (4K)
Wireless Type	WiFi 6 (802.11ax), Bluetooth 5.0
Ports	Dual HDMI, DisplayPort, Type-C, Multiple USB ports
Item Weight	3.09 pounds
Package Dimensions	7.29 x 6.82 x 5.2 inches

Image 6.1: Detailed view of the AMD Ryzen 5 3550H processor, highlighting its quad-core, eight-thread architecture, Radeon Vega 8 Graphics, and memory/storage capabilities.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Beelink products typically come with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Beelink website for specific terms and conditions regarding your GTR Mini PC.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Beelink customer support. Contact information can usually be found on the official Beelink website or within your product documentation.