

KODLIX GD70

KODLIX GD70 Mini PC User Manual

Model: GD70 (Series: MiniDesk)

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your KODLIX GD70 Mini PC. The GD70 is a compact and powerful computing solution, equipped with a 12th Generation Intel Core i7-12650H processor, 32GB of DDR4 RAM, and a 1TB PCIe4.0 SSD, designed for various applications from business offices to home entertainment.

2. PRODUCT OVERVIEW

Key Features

- **Processor:** 12th Generation Intel Core i7-12650H (10 Cores/16 Threads, up to 4.7 GHz, 24MB Cache).
- **Memory:** 32GB DDR4 RAM (2x16GB, expandable up to 64GB).
- **Storage:** 1TB M.2 2280 PCIe4.0 SSD (expandable up to 2TB), with an additional 2.5-inch SATA 3.0 HDD slot.
- **Graphics:** Intel UHD Graphics (Graphics Frequency 1.2 GHz) with 4K@60Hz triple display support (HDMI 2.0, DisplayPort 1.4, USB-C).
- **Network:** 2.5 Gigabit Ethernet, Wi-Fi 6E (802.11ax) 2.4G/5G/6G, Bluetooth 5.2.
- **Cooling:** Efficient copper heat pipe system with a quiet integrated mini fan.
- **Ports:** USB 3.2 Gen2 Type-A, USB 2.0, USB 3.2 Gen2 Type-C (PD 100W input, 4K@60Hz video output, 10Gbps data transfer), HDMI 2.0, DisplayPort 1.4, 2.5G LAN, 3.5mm Audio Jack, Clear CMOS button.

Processor Performance

12th Generation Intel Core i7-12650H Processor

8
Cores

16
Threads

24MB
Cache

4.7GHz
Max
Turbo Frequency

45W
TDP

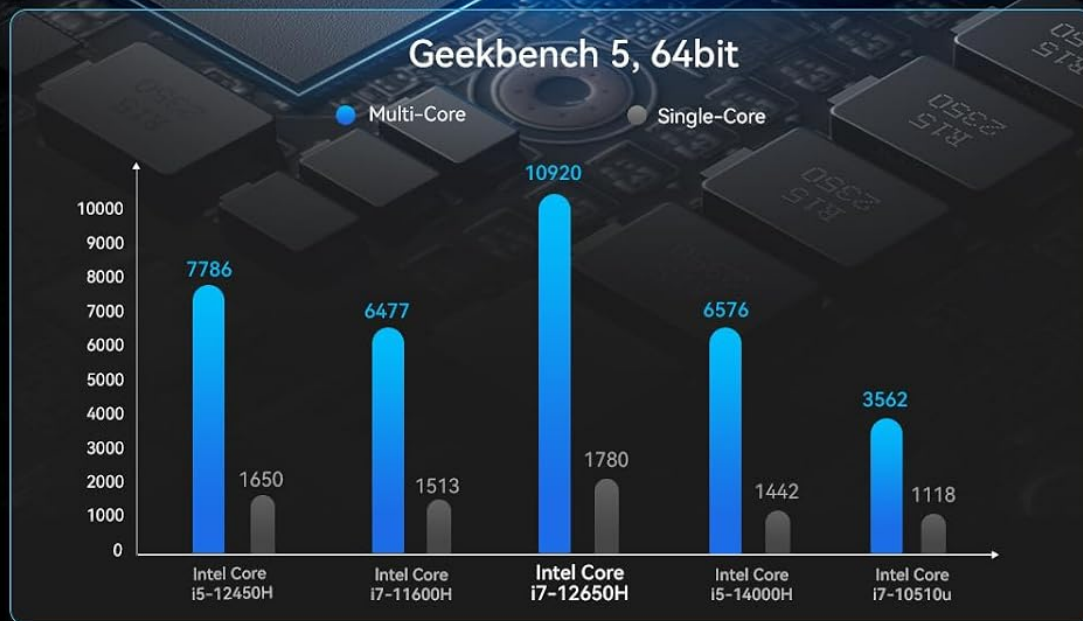


Figure 2.1: Overview of the 12th Generation Intel Core i7-12650H Processor, highlighting its 10 cores, 16 threads, 24MB cache, 4.7GHz max turbo frequency, and 45W TDP. A Geekbench 5 benchmark comparison shows its multi-core and single-core performance against other Intel Core processors.

High-Speed Storage and Memory

High speed, Stable No delay, No jamming

No need to worry about insufficient capacity



32GB
3200Mhz DDR4
Max Dual Channel 64GB



1TB M.2 2280
PCIe4.0 SSD
Support Max 2TB

Figure 2.2: Visual representation of the KODLIX GD70 Mini PC's internal components, emphasizing 32GB 3200MHz DDR4 RAM (Max Dual Channel 64GB) and 1TB M.2 2280 PCIe4.0 SSD (Support Max 2TB). The image suggests fast data transfer and ample storage capacity.

Connectivity Ports

Rich Interface



Monitor



TV



Earphones



Printer



Camera



Speaker



NAS

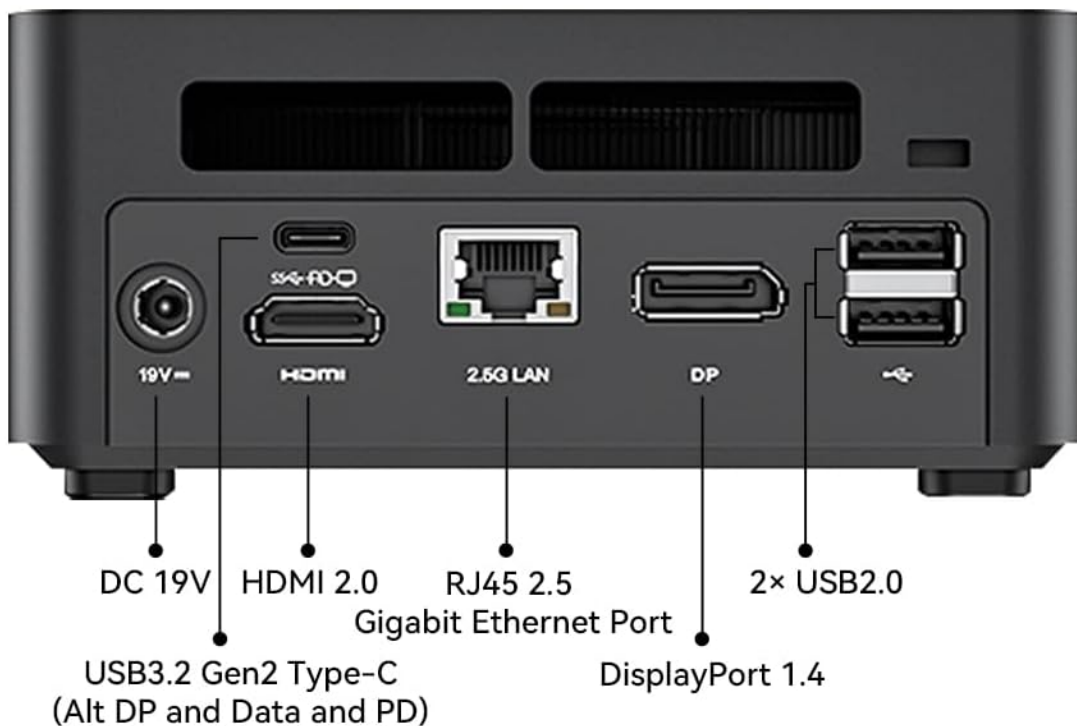
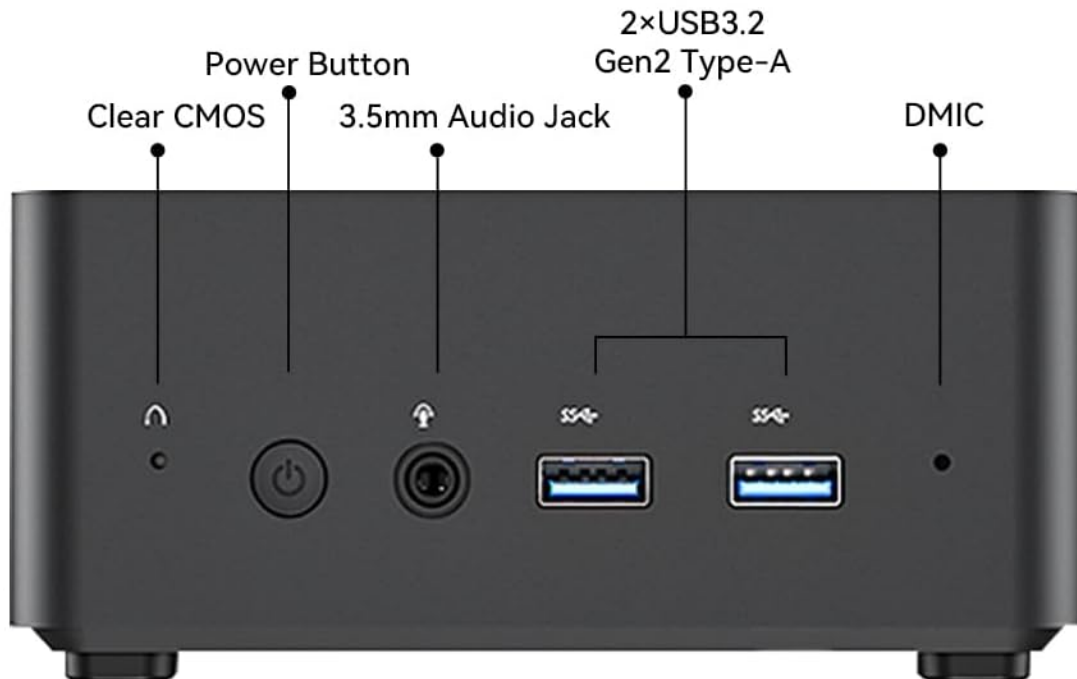


Figure 2.3: Detailed view of the KODLIX GD70 Mini PC's interfaces. The front panel includes a Power Button, Clear CMOS, 3.5mm Audio Jack, 2x USB 3.2 Gen2 Type-A, and DMIC. The rear panel features DC 19V power input, HDMI 2.0, 2.5G RJ45 LAN, DisplayPort 1.4, 2x USB 2.0, and a USB 3.2 Gen2 Type-C port (supporting Alt DP and Data and PD).

3. SETUP

3.1 Initial Setup

1. **Unpack:** Carefully remove the Mini PC and all accessories from the packaging.
2. **Power Connection:** Connect the provided power adapter to the DC 19V port on the rear of the Mini PC and then to a power outlet.
3. **Peripherals:** Connect your keyboard, mouse, and monitor to the appropriate ports.
4. **Power On:** Press the power button located on the front panel. The system will boot up.
5. **Operating System Setup:** Follow the on-screen instructions to complete the Windows 11 initial setup.

3.2 Connecting Peripherals

The KODLIX GD70 Mini PC offers a variety of ports for connecting external devices:

- **USB Devices:** Use the USB 3.2 Gen2 Type-A ports (front) or USB 2.0 ports (rear) for keyboards, mice, external drives, and other USB accessories. The USB-C port also supports data transfer.
- **Audio:** Connect headphones or speakers to the 3.5mm audio jack on the front panel.
- **Printers/Scanners:** Connect via available USB ports.

3.3 Display Setup

The Mini PC supports up to three 4K@60Hz displays simultaneously using HDMI 2.0, DisplayPort 1.4, and the USB-C port.

4K UHD Triple Screens Display

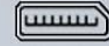
Multi-screen collaboration to improve work efficiency



HDMI2.0 4K@60Hz



USB-C 4K@60Hz



DP1.4 4K@60Hz



Figure 3.1: The KODLIX GD70 Mini PC demonstrating its capability to connect to three 4K UHD displays simultaneously via HDMI 2.0, USB-C, and DisplayPort 1.4, enhancing multitasking and work efficiency.

- **Single Display:** Connect your monitor to either the HDMI, DisplayPort, or USB-C port.
- **Dual/Triple Display:** Connect additional monitors to the remaining available video output ports. Ensure your monitors support the desired resolution and refresh rate.
- **Configuration:** Once connected, configure display settings within Windows 11 (Right-click on desktop > Display settings) to extend or duplicate your desktop.

3.4 Network Connection

The GD70 offers both wired and wireless network connectivity.



Figure 3.2: The KODLIX GD70 Mini PC connected to a monitor, showcasing its support for WiFi 6E (802.11ax), Bluetooth 5.2, and a 2.5G RJ45 LAN port for fast and stable internet connections.

- **Wired LAN:** Connect an Ethernet cable from your router or modem to the 2.5G RJ45 LAN port on the rear of the Mini PC for high-speed wired internet access.

- **Wi-Fi:** The Mini PC supports Wi-Fi 6E (802.11ax) for fast wireless connectivity. Access network settings in Windows 11 to connect to your preferred Wi-Fi network.
- **Bluetooth:** Bluetooth 5.2 allows you to connect wireless peripherals such as headphones, keyboards, and mice. Enable Bluetooth in Windows 11 settings and pair your devices.

4. OPERATING

4.1 Power On/Off

- **Power On:** Press the power button on the front panel.
- **Power Off:** To shut down the system, go to the Start Menu in Windows 11, select Power, and then choose "Shut down." Do not unplug the power adapter directly without proper shutdown to prevent data loss.
- **Restart:** To restart, select Power, and then choose "Restart."

4.2 Operating System

The KODLIX GD70 Mini PC comes pre-installed with Windows 11. Ensure your operating system is regularly updated for optimal performance and security.

4.3 Storage Expansion

The GD70 offers flexible storage expansion options.

Diverse Storage Expansion



Figure 4.1: An exploded diagram illustrating the internal components of the KODLIX GD70 Mini PC, highlighting the 1TB PCIe4.0 SSD (M.2 2280, Max 2TB support), DDR4 3200MHz 32GB SODIMM slots (2x, Max 64GB), and a 2.5-inch SATA3.0 HDD slot (SATA 3.0 6.0Gb/s, HDD not included).

- **M.2 SSD:** The pre-installed 1TB M.2 2280 PCIe4.0 SSD can be upgraded to a maximum of 2TB.
- **2.5-inch SATA HDD:** An additional 2.5-inch SATA 3.0 HDD (not included) can be installed for expanded storage. This slot supports SATA 3.0 at 6.0Gb/s.
- **RAM:** The 32GB DDR4 RAM (2x16GB) can be upgraded to a maximum of 64GB by replacing the existing SODIMM

modules.

5. MAINTENANCE

5.1 Cleaning

- **Exterior:** Use a soft, dry cloth to clean the exterior of the Mini PC. Avoid liquid cleaners.
- **Vents:** Periodically use compressed air to clear dust from the ventilation grilles to ensure proper airflow and cooling.

5.2 Software Updates

Regularly update your Windows 11 operating system and device drivers to maintain system stability, security, and performance. Access Windows Update through the Settings menu.

5.3 Hardware Upgrades

To access internal components for upgrades (RAM, M.2 SSD, 2.5" HDD), carefully remove the bottom panel of the Mini PC. This typically involves removing screws located under the rubber feet. Exercise caution to avoid damaging internal components or cables.

6. TROUBLESHOOTING

If you encounter issues with your KODLIX GD70 Mini PC, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Check the power button.
- **No Display:** Verify that the monitor is powered on and correctly connected to the Mini PC's video output ports (HDMI, DisplayPort, USB-C). Try a different cable or monitor if possible.
- **No Internet:** For wired connections, check the Ethernet cable and router. For Wi-Fi, ensure the Wi-Fi adapter is enabled and you are connected to the correct network with the correct password.
- **Slow Performance:** Check for background applications, ensure sufficient free storage space, and verify that Windows and drivers are up to date.
- **Peripheral Not Detected:** Ensure the peripheral is properly connected to the correct port. Try a different port or restart the Mini PC.
- **Clear CMOS:** If experiencing boot issues or incorrect BIOS settings, use the Clear CMOS button on the front panel (refer to Figure 2.3 for location). This will reset BIOS settings to default.

For persistent issues, refer to the KODLIX support website or contact customer service.

7. SPECIFICATIONS

Feature	Specification
Brand	KODLIX
Model Number	MiniDesk (GD70)
Processor	Intel Core i7-12650H (10 Cores, 16 Threads, up to 4.7 GHz)
RAM	32 GB DDR4 (Max 64 GB)
Storage	1 TB PCIe4.0 SSD (M.2 2280, Max 2 TB), 2.5" SATA 3.0 HDD slot

Feature	Specification
Graphics	Intel UHD Graphics (Graphics Frequency 1.2 GHz)
Video Output	HDMI 2.0 (4K@60Hz), DisplayPort 1.4 (4K@60Hz), USB-C (4K@60Hz)
Network	2.5 Gigabit Ethernet, Wi-Fi 6E (802.11ax), Bluetooth 5.2
Operating System	Windows 11
Power Supply	AC Adapter (DC 19V)
Dimensions	Approximately 12.95 x 12.78 x 5.44 cm (5.10 x 5.03 x 2.14 inches)
Weight	1.32 kg (2.91 lbs)
Compatibility	Keyboard, mouse, monitor, speaker, headset, projector, smartphone

Light and Portable Mount Installation



Figure 7.1: The KODLIX GD70 Mini PC, illustrating its compact dimensions (5.10 in x 5.03 in x 2.14 in) and its capability for VESA mount installation on the back of a monitor, providing a clean and space-saving setup.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Please refer to the warranty card included with your product or visit the official KODLIX website for detailed warranty terms and conditions. The warranty typically covers manufacturing defects for a specified period from the date of purchase.

8.2 Customer Support

For technical assistance, troubleshooting, or any product-related inquiries, please contact KODLIX customer support. Contact information can usually be found on the official KODLIX website or in the product packaging.