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› GD90 Mini PC User Manual

KODLIX MiniDesk

GD90 Mini PC User Manual

Brand: KODLIX | Model: MiniDesk

1. PRODUCT OVERVIEW

The KODLIX GD90 Mini PC is a compact and powerful computing solution designed for various applications, from home entertainment to demanding office tasks. It integrates advanced components within a small form factor, offering high performance and versatile connectivity.



Figure 1.1: Front view of the KODLIX GD90 Mini PC, showcasing its compact design.

14/20
Cores/Threads

24MB
Cache

5.0GHz
Max Turbo Frequency

Intel Iris Xe Graphics
96EUs

12th Gen
Intel Core i9-12900HK

Size: 5.10*5.03*2.14 in
Weight: 1.26 lb



Triple Screen Display

HDMI+DP+USB-C



32GB 3200Mhz DDR4

Max Dual Channel 64GB



Bluetooth5.2

Faster Stable Connection



1TB M.2 2280 PCIe4.0 SSD

Support Max 2TB



PD & Input

Type-C 100W input



WiFi6E

2.4GHz/5GHz/6GHz
Band



2.5Gbps
LAN



Figure 1.2: Detailed view of the front and rear ports on the KODLIX GD90 Mini PC.

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. The package includes: 1x GD90 Mini PC, 1x Mount Support, 1x Power Cable, 1x US Power Adapter, 1x HDMI Cable, 1x User Manual.

2.2. Connecting Peripherals

Connect your monitor(s), keyboard, and mouse to the appropriate ports on the Mini PC. The device supports triple display output via HDMI2.0, DisplayPort1.4, and USB-C 4K@60Hz video outputs.

Connect the power adapter to the DC 19V input port on the rear of the Mini PC, then plug the power cable into a wall outlet.

2.3. First Boot-up

Press the power button located on the front of the Mini PC. The system will initiate the boot process. Follow the on-screen instructions to complete the operating system setup.

2.4. Storage Expansion

The KODLIX GD90 Mini PC supports internal storage expansion. It includes a 1TB M.2 2280 PCIe4.0 SSD and supports scalability up to 2TB. Additionally, it supports expansion for a 2.5-inch 2TB SSD. The necessary SATA connection cable is provided for internal 2.5-inch drive installation.

Diverse Storage Expansion

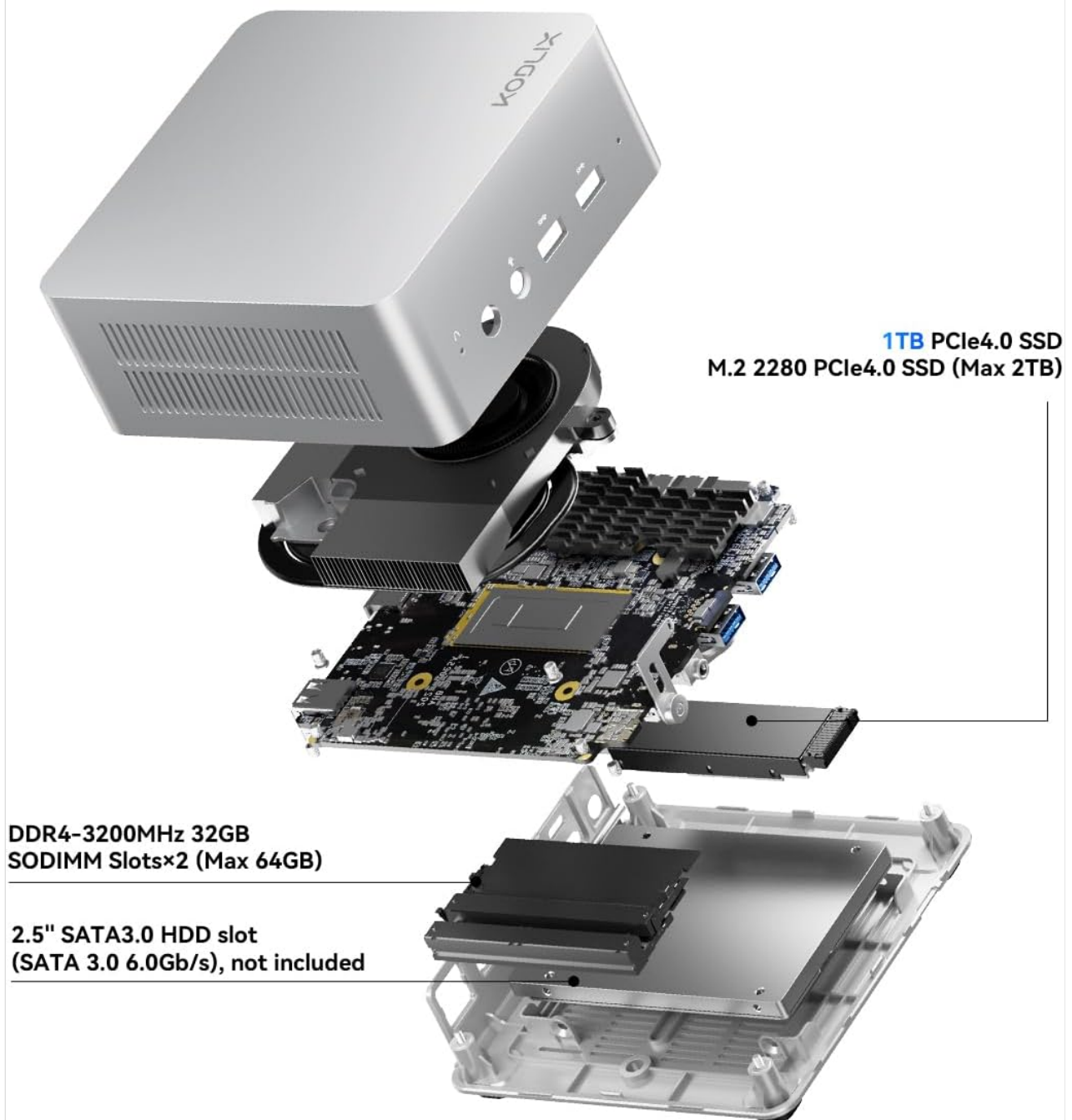


Figure 2.1: Internal view of the KODLIX GD90 Mini PC, highlighting the SSD and RAM slots for expansion.

3. OPERATING INSTRUCTIONS

3.1. Processor and Graphics

The KODLIX GD90 Mini PC is equipped with an Intel Core i9-12900HK processor (14 cores, 20 threads, 24MB

cache, up to 5.0GHz) and Intel Iris Xe Graphics (up to 1.45GHz). This configuration is suitable for business offices, design, video editing, web browsing, and home theater applications.

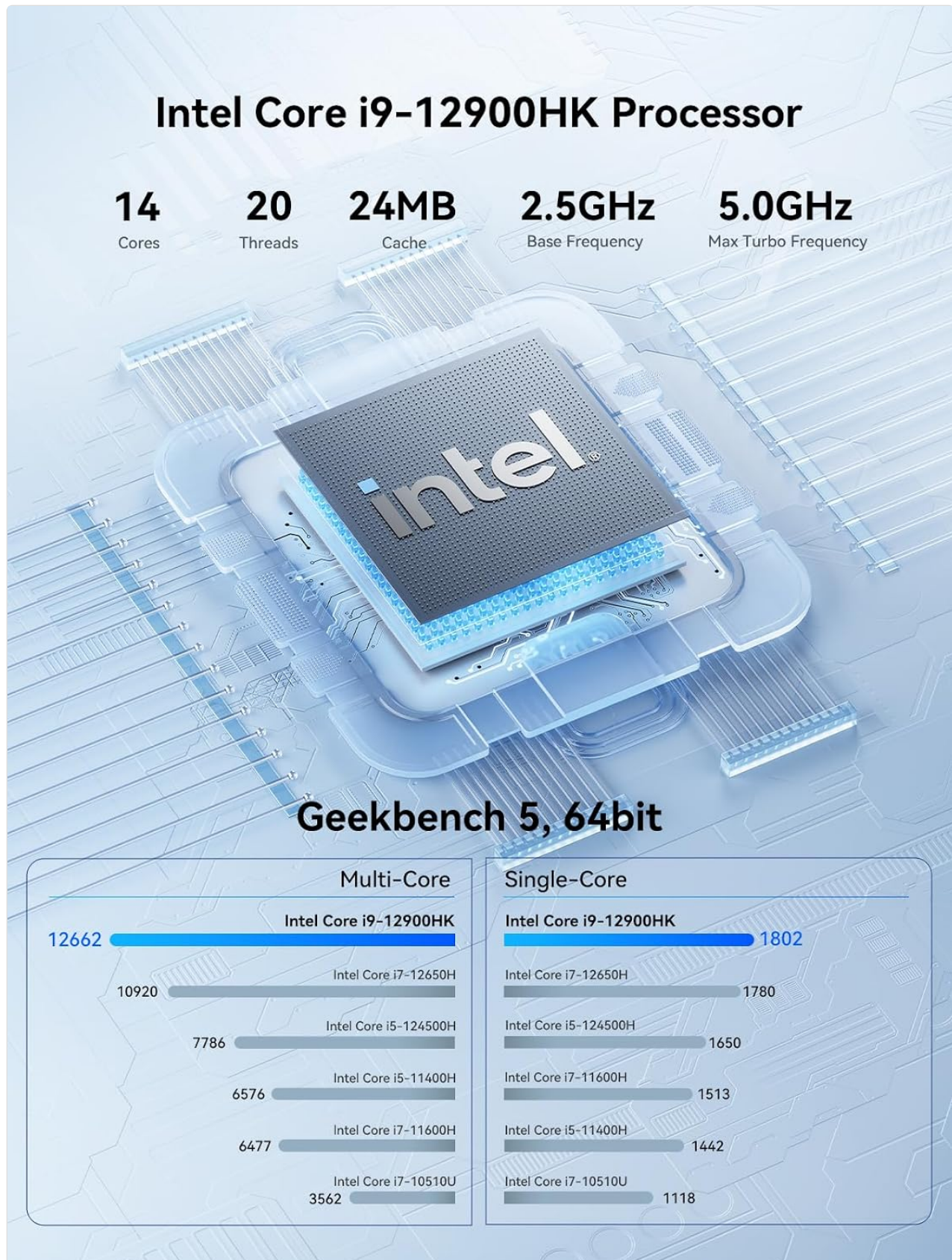


Figure 3.1: Overview of the Intel Core i9-12900HK Processor capabilities.

3.2. Memory and Storage

The Mini PC features 32GB DDR4 RAM (2x16GB, dual-channel, expandable up to 64GB) and a 1TB M.2 2280 PCIe4.0 SSD. The 32GB RAM enhances the performance of the Intel Iris Xe graphics, providing faster response times for data processing and gaming. The 1TB SSD offers substantial storage capacity for files and media.

3.3. Display Configuration

The KODLIX GD90 supports triple display output at 4K@60Hz via its HDMI2.0, DisplayPort1.4, and USB-C ports. This multi-screen capability is beneficial for multitasking, data processing, media streaming, and professional AV systems.

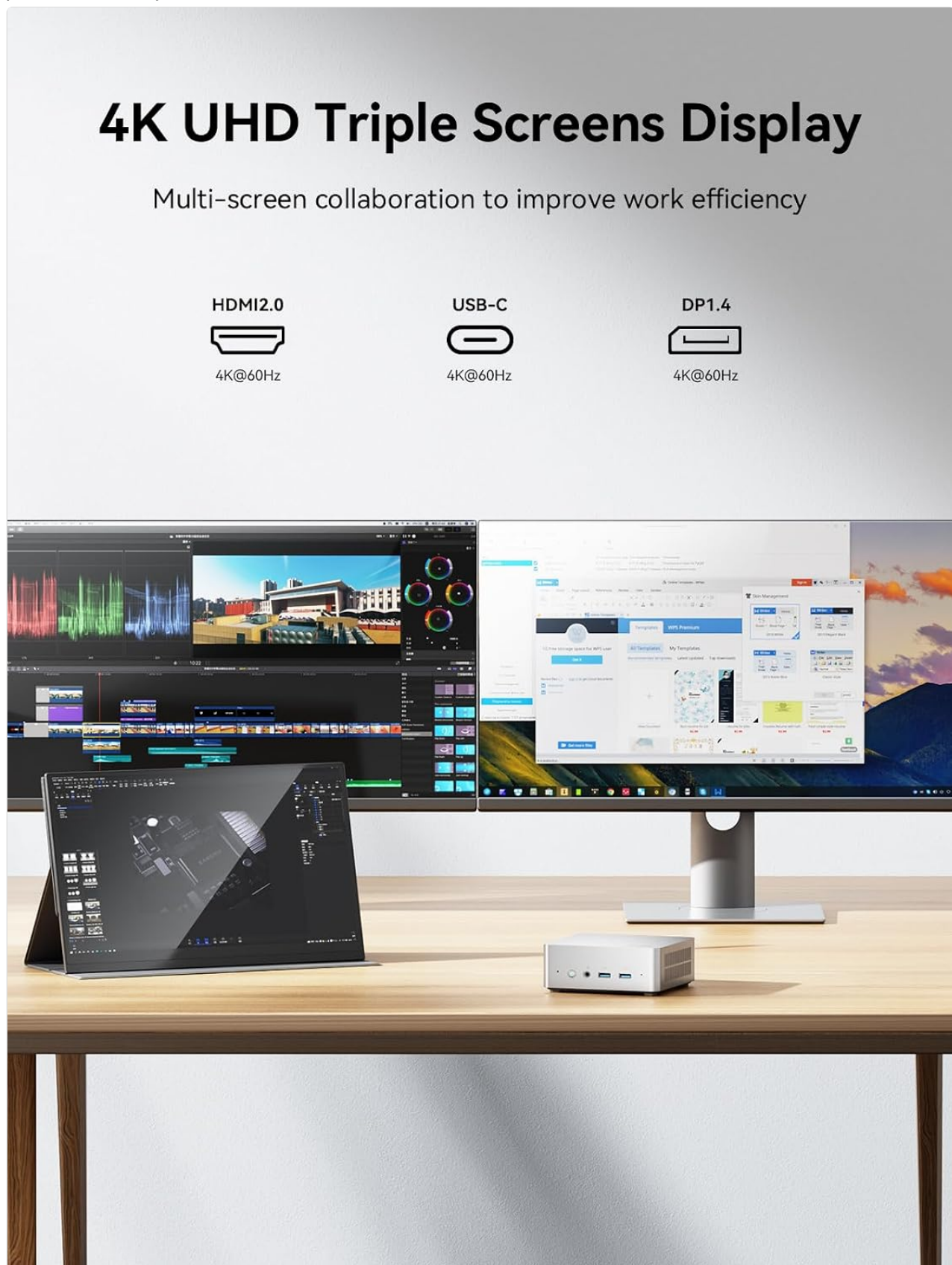


Figure 3.2: Illustration of the 4K UHD Triple Screens Display capability.

3.4. Network and Wireless Connectivity

The Mini PC includes a 2.5 Gigabit Ethernet port, offering data transfer speeds up to 2.5 times faster than

standard Gigabit Ethernet. It also features Wi-Fi 6E with 2.4G/5G/6G triple band support for faster and lower latency wireless connections. Bluetooth 5.2 allows for seamless connection to various wireless devices.

Wi-Fi6E+BT5.2 fast and stable wireless and 2.5 Gbps wired LAN connection

Enjoy a better internet experience!



Figure 3.3: Visual representation of the high-speed wireless and wired connectivity options.

3.5. Power Delivery

The KODLIX GD90 Mini PC supports Type-C PD 100W adapter input, providing flexible power options.

Support Type-C PD 100W Adapter Input



Figure 3.4: The Mini PC supporting Type-C PD 100W input.

4. MAINTENANCE

4.1. Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure that the ventilation grilles on the sides and bottom are free from dust and debris to maintain optimal airflow and prevent overheating.

4.2. Fan Noise

The GD90 Mini PC is designed with an ultra-quiet fan. Under full load, the fan noise is approximately 43dB, reducing to 32dB in standby mode. This ensures a quiet operating environment.

4.3. Mounting Options

The Mini PC can be wall-mounted or placed horizontally. The included mount support allows for flexible placement, such as behind a monitor, to save desk space.

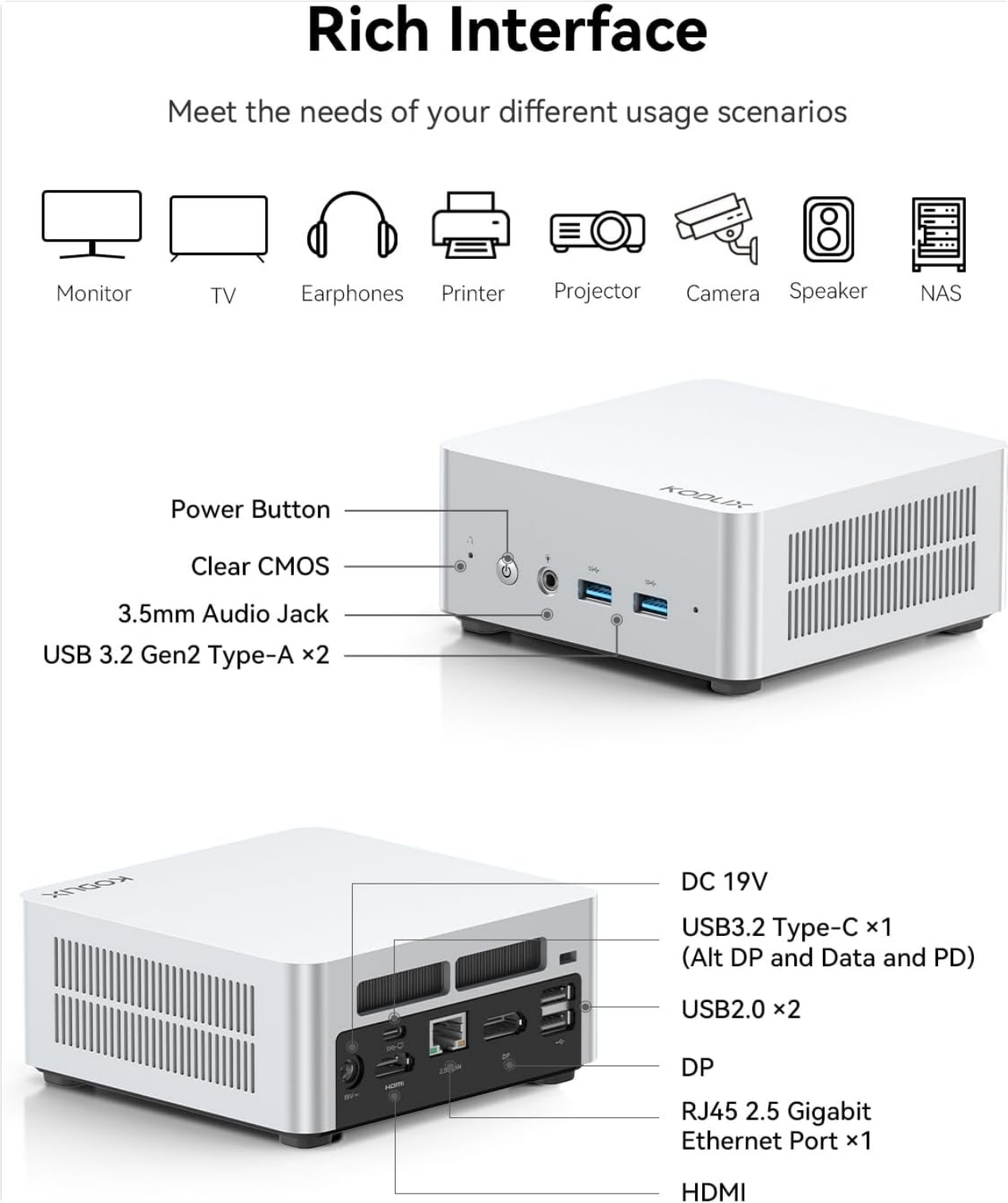


Figure 4.1: The Mini PC shown in a wall-mounted configuration.

5. TROUBLESHOOTING

5.1. No Display Output

- Ensure all display cables (HDMI, DisplayPort, USB-C) are securely connected to both the Mini PC and the monitor.
- Verify that the monitor is set to the correct input source.
- Try connecting to a different display or using a different cable to rule out faulty equipment.

5.2. Power Issues

- Check that the power adapter is firmly connected to the Mini PC and the power outlet.
- Ensure the power outlet is functional by testing it with another device.
- If the device does not power on, disconnect all peripherals and try booting with only the power connected.

5.3. Connectivity Problems (Wi-Fi/LAN)

- For Wi-Fi, ensure the wireless adapter is enabled in the operating system settings.
- Verify that the Wi-Fi network is active and within range.
- For LAN, check the Ethernet cable connection to both the Mini PC and the router/modem.
- Restart your router/modem and the Mini PC.

6. SPECIFICATIONS

Feature	Detail
Processor	Intel Core i9-12900HK (14 cores, 20 threads, up to 5.0GHz)
Graphics Coprocessor	Intel Iris Xe Graphics (Frequency 1.45GHz)
RAM	32GB DDR4 SDRAM (2x16GB, expandable up to 64GB)
Hard Drive	1 TB SSD (M.2 2280 PCIe4.0, supports scalability to 2TB)
Display Output	HDMI2.0, DisplayPort1.4, USB-C (4K@60Hz Triple Display)
LAN	2.5 Gigabit Ethernet Port
Wireless Connectivity	Wi-Fi 6E (2.4G/5G/6G triple band), Bluetooth 5.2
USB Ports	2x USB 3.2 Gen2 Type-A (front), 2x USB 2.0 (rear)
Audio Jack	3.5mm Audio Jack (front)
Power Input	DC 19V, Type-C PD 100W
Operating System	OS (Windows 11 Home 64-bit pre-installed)
Item Weight	2.57 pounds

Feature	Detail
Package Dimensions	7.13 x 6.1 x 4.49 inches

7. WHAT'S IN THE BOX

- 1x GD90 Mini PC
- 1x Mount Support
- 1x Power Cable
- 1x US Power Adapter
- 1x HDMI Cable
- 1x User Manual

8. WARRANTY AND SUPPORT

KODLIX is committed to providing excellent customer support for all your computing needs. For any inquiries, technical assistance, or warranty claims, please refer to the contact information provided in the included User Manual or visit the official KODLIX website.