ZOTAC

ZBOX

MAGNUS ONE

USER'S MANUAL

ZOTAC ZBOX
User's Manual



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Every effort has been made to ensure that the contents of this manual are correct and up to date. However, the manufacturer makes no guarantee regarding the accuracy of its contents, and reserves the right to make changes without prior notice.

CAUTION:
Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

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Product Specifications

- **Microprocessor support**
  - AMD Ryzen™ 9 9850HX 12 Cores, 3.0 GHz (up to 5.2 GHz)
- **Graphics support**
  - NVIDIA GeForce RTX 5060 Ti w/ 8GB GDDR7, 128bit for ZBOX-ER98N506T8 series
  - NVIDIA GeForce RTX 5070 w/ 12GB GDDR7, 192bit for ZBOX-ER98N5070C series
  - 1 x HDMI 2.1b, 3 x DP 2.1b, HDMI 2.0 & DP via USB-C from AMD IGP
- **Operating systems:**
  - Windows 11 Ready
- **System Memory support**
  - 2 x DDR5-5600 SODIMM
  - Up to 96 GB of memory
- **Storage**
  - 2 x M.2 NVMe PCIe 5.0 x4 SSD slot (22/42,22/80)
  - Support RAID 0 or 1 for two NVMe SSD installed
- **USB Ports**
  - 5 x USB 3.2 Gen2 (10Gbps, Type-A)
  - 1 x USB 3.2 Gen2 (10Gbps, Type-C)
  - 2 x USB 3.2 Gen1 (5Gbps, Type-A)
  - 1 x USB-C ALT Mode (10Gbps, DP from iGP)
- **Expansion slot**
  - Card reader SD/SDHC/SDXC/UHS-II, Mic/Speaker
- **Onboard LAN**
  - 1 x 5Gbit LAN (10/100/1000/2500/5000Mbps)
- **WiFi/Bluetooth support**
  - Mediatek RZ717 WiFi 7 (802.11 be)
  - Bluetooth 5.4
- **Power**
  - 500W 80+ Platinum Power Supply
- **Dimensions**
  - 270.5mm x 126mm x 249mm

Safety information

Your ZOTAC ZBOX is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before operating your system.
- Do not use this product near water or a heat source such as a radiator.
- Set up the system on a stable surface with the provided stand. Never use the system alone without the stand.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between 0℃ and 35℃.

Care during use

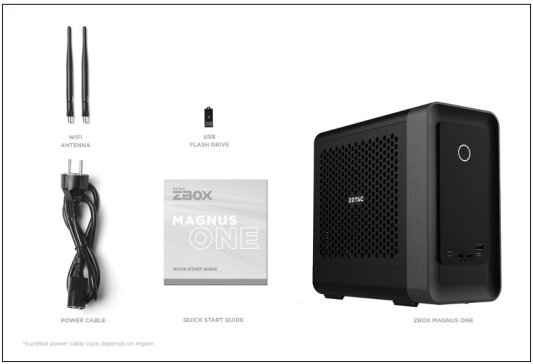
- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
  - The power cord or plug is damaged.
  - Liquid has been spilled into the system.
  - The system does not function properly even if you follow the operating instructions.
  - The system was dropped or the cabinet is damaged.
  - The system performance changes.

Welcome

Congratulations on your purchase of the ZOTAC ZBOX. The following illustration displays the package contents of your new ZOTAC ZBOX. If any of the below items are damaged or missing, contact your retailer.

Package contents

- 1 x ZOTAC ZBOX
- 1 x Power Cord
- 2 x Nylon Cable Tie (optional)
- 2 x Antenna
- 1 x USB flash drive with Windows drivers
- 1 x Quick Start Guide & Warranty Card



Getting to know your ZOTAC ZBOX
Front view



Refer to the diagram below to identify the components on this side of the system

1. Power switch
The power switch allows powering ON and OFF the system.

2. Headphone/Audio Out jack
The stereo headphone jack (3.5mm) is used to connect the system's audio out signal to amplified speakers or headphones.

3. Memory card slot
The Memory card slot is compatible with SD/SDHC/SDXC/UHS-II cards used in devices like digital cameras, MP3 players, mobile phones and PDAs.

4. Power LED
The Power LED is always ON when power is on.

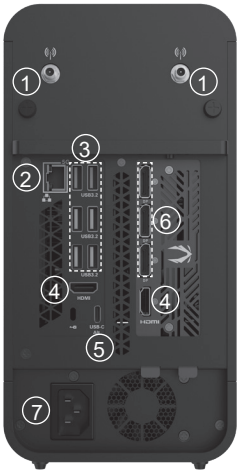
5. WiFi LED
The WiFi LED is always ON when WiFi was active.

6. Hard disk LED
The hard disk LED blinks when data is being written into or read from the hard disk drive.

7. USB 3.2 port
The USB 3.2 port supports the SuperSpeed USB 3.2 devices and is backwards compatible with USB 3.1/3.0/2.0/1.1 devices. Use this port for USB 3.2 devices for maximum performance with USB 3.0 compatible devices.

8. USB 3.2 Type-C port
The USB 3.2 type-C port supports the SuperSpeed USB 3.2 devices. Use this port for USB 3.2 devices for maximum performance with USB 3.2 compatible devices.

Rear view



Refer to the diagram below to identify the components on this side of the system.

1. WiFi antenna connectors
The WiFi antenna connector supports WiFi antenna module.

2. LAN ports
The eight-pin RJ-45 LAN ports support standard Ethernet cables for connection to a local network. The LAN port marked with 5G is for 5Gbit LAN.

3. USB 3.2 ports
The USB 3.2 port supports the SuperSpeed USB 3.2 devices and is backwards compatible with USB 3.1/3.0/2.0/1.1 devices. Use this port for USB 3.2 devices for maximum performance with USB 3.2 compatible devices.

4. HDMI ports
The HDMI (High Definition Multimedia Interface) port supports a UHD device such as an LCD TV or monitor to allow viewing on a larger external display.

5. USB-C Alt Mode port
The USB-C Alt mode port can switch between sending regular USB data and sending other types of signals, like video.

6. DisplayPorts
DisplayPort supports both external (box-to-box) and internal (laptop LCD panel) display connections.

7. Power input (AC 100-240V, 50-60Hz)
Connected with power cord to mains for AC input.

Installing Hardware

Before installing hardware, please follow the instructions below to remove the cover of your ZOTAC ZBOX.

1. Lay the ZOTAC ZBOX on a flat surface.
2. Locate the two thumb screws and remove.





3. Press down on the arrow of top cover and remove the top cover off the ZOTAC ZBOX in the direction of the arrow.







4. Push up and remove the two side covers.





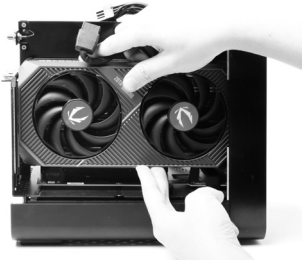


Installing a graphics card (optional)

1. Remove the screw from the bracket. (tool required, not included)



2. Insert the graphics card into the available PCIe slot.



*Graphics card compatibility - Power: up to 250W, Width: dual-slot, Length: 240mm / 9.45in

3. Install the screw to secure the graphics card.



4. Connect the power cable to the graphics card.



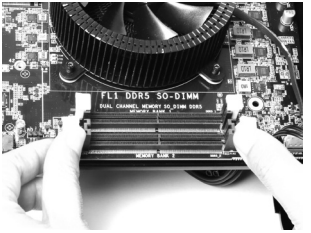


Installing a memory module

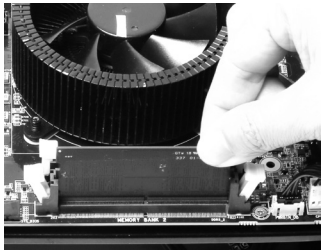
1. Lay the ZOTAC ZBOX on a flat surface with the right side upwards.



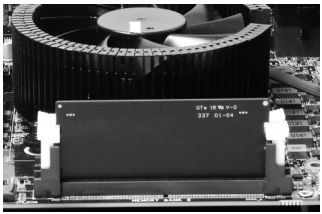
2. Gently push down on the memory retainer clips to the open position.



3. Insert a SO-DIMM memory module into the slot.



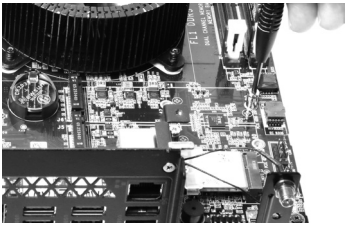
4. Gently push the SO-DIMM memory module down into the slot until the retainer clips lock into place.



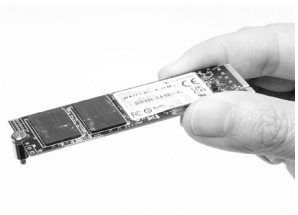
Note:
1. This ZOTAC ZBOX accomodates two DDR5 SO-DIMM memory modules. You must install at least one module for the system to function.
2. 16GB DDR5 memory is pre-installed in Windows version.

Installing M.2 SSD module

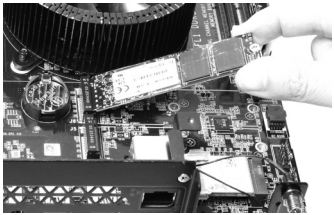
1. Locate the M.2 PCIe x4 SSD slot and remove the screw from the screw bolt. (tool required, not included)



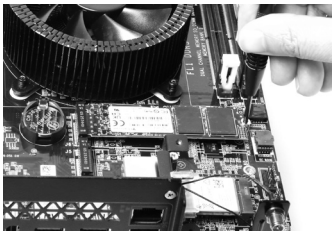
2. Attach the screw to the M.2 PCIe x4 SSD module.



3. Insert the M.2 PCIe x4 SSD module into the slot at a 45 degree angle.



4. Gently press down on the M.2 PCIe x4 SSD module, and install the screw.



*1TB M.2 SSD is pre-installed in Windows version.

Setting up your ZOTAC ZBOX

You need to connect peripherals before using your ZOTAC ZBOX.



1. Connecting a WiFi antenna module

Connect a BT/WiFi antenna module to the BT/WiFi antenna connector.

2. Connecting to a network device

Connect one end of a network cable to the LAN port on the system rear panel and the other End to a hub or switch. The LAN port marked with 5G is for 5Gbit LAN.

3. Connecting to USB 3.2 devices

Connect USB 3.2 devices such as external hard disk drives, SSDs and flash drives to the USB 3.2 port on the system rear panel.

4. Connecting to HDMI displays

Connect one end of an HDMI cable to the HDMI port on the system rear panel and the other end to a HDMI-compatible display such as an HDTV or monitor.

5. Connecting to USB-C devices

Connect the USB-C devices such as external graphics, DisplayPort device and USB Type-C device to the USB-C port.

6. Connecting to DisplayPort displays

Connect the DisplayPort connectors to the DP port of the monitor or display.

7. Turning on the system

Connect the supplied power cord to the Power input on the system rear panel and then press the power switch on the front panel to turn on the system.

Installing drivers and software

Installing an operating system

Depending on the ZOTAC ZBOX model, the system may not ship with an operating system pre-installed. The user must install the operating system before the ZOTAC ZBOX can be used. The following operating systems are supported:

- Windows 11 Ready

Follow the instructions below to install an operating system:

1. Attach the USB flash drive via USB 3.2 port.
2. Wait for the ZOTAC ZBOX to boot from the USB flash drive.
3. Follow the onscreen directions to install the operating system.
4. Install system drivers to gain full functionality of the ZOTAC ZBOX hardware and features.

Installing system drivers

Before you can use the full features of the ZOTAC ZBOX, the system drivers must be installed. The following types of operating systems are supported by the USB flash drive:

- Windows 11 Ready

Follow the instructions below to install the system drivers:

1. Insert the USB flash drive. If autorun is enabled, the driver installation main menu will show up automatically. If autorun is disabled, you may click the file Launch.EXE to bring up the driver installation main menu.
2. The following drivers are available on the USB flash drive:
   - AMD Chipset Driver
   - Senary Audio Driver
   - AMD Graphics Driver
   - NVIDIA Graphics Driver
   - Intel HID Driver
   - Realtek Ethernet PCI-E Driver



- Wireless Network Driver
- Bluetooth Driver
- BayHub_SD Driver

☞ Each driver must be installed individually to ensure proper operation of the ZOTAC ZBOX.

3. Select the driver you want to install. The driver installer should launch.
4. Follow the onscreen instructions to install the drivers.
5. Restart the system.

Using your ZOTAC ZBOX

Configuring a wireless connection



Please follow the instructions below to connect to a wireless network:

1. Double-click the wireless network icon (pic) in the notification area.
2. Select the wireless network you want to connect to from the list and click Connect.
3. After connection is established, you will see “Connected.”

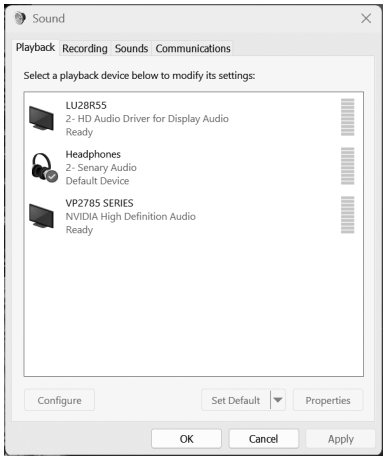
   Note 1: For security concerns, Do NOT connect to an unsecured network, otherwise, the transmitted information without encryption might be visible to others.

   Note 2: Enter the network security key if necessary.

Configuring audio output

Follow the steps below to enable audio output when connecting the ZOTAC ZBOX to a TV or receiver via DP/HDMI adapter.

1. Access the Sound settings via the system Control Panel.
2. Under Playback devices, click the display device that corresponds with your audio compatible display.
3. Click the “Set Default” button in the lower right hand corner.
4. Click “OK” to exit the setup.



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference,
(2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Warning

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference;
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet appareil est conforme aux CNR exemptes de licence d'Industrie Canada.
Son fonctionnement est soumis aux deux conditions suivantes:
(1) Ce dispositif ne peut causer d'interférences;
(2) Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Ce matériel est complété par une exposition de rayonnements ISED pour un environnement naturel. Ce matériel doit être installé et se faire avec une distance minimale de 20cm entre les radiateurs et les autres Your body shop.

Button / Coin Cell Battery Safety Notice

- Remove and immediately recycle or dispose of used batteries according to localregulations and keep away from children. Do NOT dispose of batteries in household trash orincinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Use only CR2032 battery with a nominal voltage of 3V.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 85°C or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

⚠ WARNING

- **INGESTION HAZARD :** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours.**
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



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