



The Leader in Desktop AI Supercomputing

GMKtec NUCBOX K11 USER MANUAL

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Friendly Reminder & Disclaimer

Thank you for choosing GMKtec. Please read this user manual carefully before use and keep it for later reference.

The information in this document is subject to change without notice, and no content herein shall be construed as constituting any additional warranty. GMKtec reserves the right to update product specifications, drivers, and this manual at any time. For the latest version, please visit our customer service website: www.gmktec.com.

Please note that a wireless dongle (usually included with your keyboard and mouse set) is required for initial Microsoft account setup if you use a wireless keyboard or mouse. After setup is completed, you may connect other wireless devices via Bluetooth and Wi-Fi.

If you encounter any issues during use, please contact us through the email address provided in this manual. We will provide support as soon as possible.

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Some jurisdictions may not allow the full exclusion or limitation of implied warranties or liability for certain damages. In such cases, the above limitations or exclusions may not fully apply to you.

All third-party product names or content mentioned in this manual are the property of their respective owners and are protected by intellectual property laws and international treaties.

GMKtec's warranty and service shall be invalidated under the following conditions:

- (1) The product has been repaired, modified, disassembled, or had components replaced without GMKtec's authorization.
- (2) The product serial number is defaced, altered, or removed.

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About This User Manual

This user manual provides an overview of the hardware settings and software features of the Mini PC. It is organized into the following chapters:

Chapter 1: Getting to Know Your Mini PC

This chapter introduces the hardware components of the Mini PC.

Chapter 2: Using Your Mini PC

This chapter covers the basic operations of the Mini PC.

Chapter 3: Upgrading Your Mini PC

This chapter provides information on upgrading the memory module, wireless module, and hard drive/solid-state drive of the device.

Chapter 4: Certification & Compliance

This chapter includes product certification statements and compliance information for different regions.

Chapter 5: Appendix

This chapter contains safety warnings, precautions, and proper use guidelines.

Chapter 6: Service and Support

This chapter provides official contact information and after-sales support channels.

Prompt Description

The instructions for use of specific icons and information in the manual are as follows:

Important! This information contains important information that must be followed to complete the task.

Note: This information contains additional tips and helpful information to assist in completing the task.

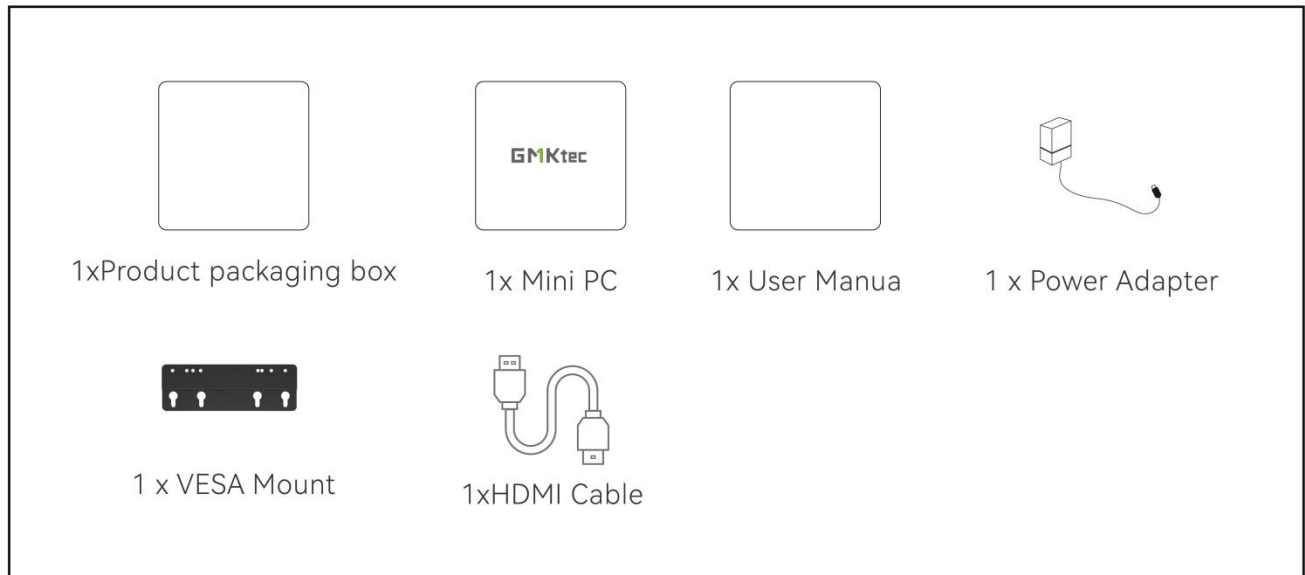
Warning! This information contains vital information that must be followed to ensure user safety and avoid damage to the Mini PC's data or components.

Package Box Contents

Your Mini PC package box should include the following items:

1xProduct packaging box+1x Mini PC +1x User Manual/Warranty Card +1 x Power Adapter + 1 x VESA Mount

+1xHDMI Cable



Notes:

Images are for reference only. The actual product may vary by region. Please refer to the product you purchased.

*The included power adapter may vary depending on the model and region

Accessories included with your Mini PC may differ based on the model. For detailed accessory information, please refer to the user manual of the specific model.

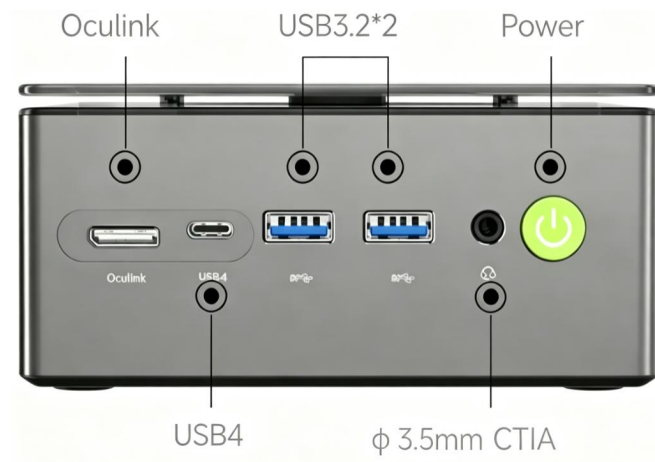
During the warranty period, if the product or its accessories experience any fault under normal usage conditions, please contact a GMK authorized service center with your warranty card and the faulty product.

Getting to Know Your Mini PC

About the Device

Before use, please familiarize yourself with the interface and buttons of the device.

Front View



Oculink :



This OcuLink port supports PCIe Gen4 x4 for external graphics cards.

USB4 :



This Type-C port supports USB 4 at up to 40Gbps, video output up to 4K @60Hz, and supports power input up to 100W.

USB 3.2 (Gen2) :



This USB3.2 port provides a transfer speed of up to 10Gbps.

φ 3.5mm CTIA Audio :



This port is used to connect audio output devices such as speakers or headphones. It can also be used to connect external microphones or other audio output devices

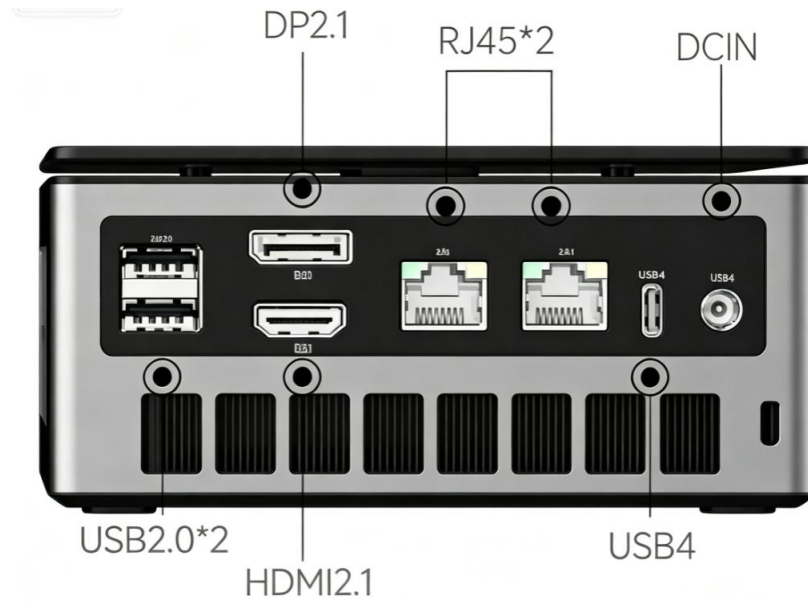
Power Button :



This power button is used to turn the Mini PC on or off.

It features an integrated white LED indicator: the LED stays solid when the device is on, and pulses slowly when in sleep mode.

Back View



USB2.0 :

This USB2.0 port provides a transfer speed of up to 480 Mbps.



HDMI :

The HDMI port can connect to Full-HD display devices for an enhanced viewing experience.

Note: The maximum resolution for this port, when used as a display output source, supports up to 8K @60Hz. Resolution may vary depending on the cable and output device.



DP :

This DisplayPort port supports DisplayPort 2.1 at up to 8K @60Hz.



RJ45(LAN) :

This network port supports a standard Ethernet cable to connect to a LAN.



USB4 :

This Type-C port supports USB 4 at up to 40Gbps, video output up to 4K @60Hz, and supports power input up to 100W.



DC IN :

The power adapter converts AC power to DC power, which is supplied to your Mini PC via this

port. To avoid damaging your Mini PC, always use the included power adapter.

Important! The power adapter may heat up during operation. Please ensure it is not covered by any objects and keep it away from your body.

Note:

The power adapter may vary depending on the model and region. Refer to the following information for details:

120W power adapter: +19V DC $\overline{\text{---}}$ 6.32A, 120W.

Computer lock

This port is designed for connecting a computer security lock to fix the host on a desktop or cabinet, preventing theft and accidental movement.

Ventilation Holes (Air Outlet)

Ventilation holes are located on the bottom, side of the lower chassis, and joints between top cover and bottom chassis. Please refer to the actual product for details.

Important! Do not block any ventilation areas with paper, books, clothing, cables or other objects. Insufficient air flow will lead to overheating, abnormal performance or device damage.

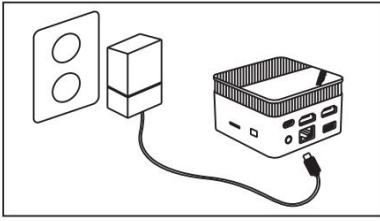
Technical specifications

MODEL		K11
CPU		AMD Ryzen 8000 Series AMD Ryzen™ 9 8945HS 8-core, 16-thread, maximum turbo frequency 5.2 GHz; 16 MB L3 Cache
GPU		AMD Radeon™ 780M
Memory		2x SO-DIMM ; DDR5 5600MT/S 32 GB(actual capacity subject to purchase)
Storage		M.2 2280 SSD (PCIe 4.0) 1TB(actual capacity subject to purchase)
Network	WiFi	Wi-Fi 6E RZ616
	Bluetooth	BT5.2
	Ethernet	2x LAN (RJ45)2.5G
Power adapter		DC IN 19V 6.32A
Packing list		1x Mini PC +1x User Manual/Warranty Card +1 x Power Adapter + 1 x VESA Mount +1 x HDMI Cable
SIZE		132*125*58mm

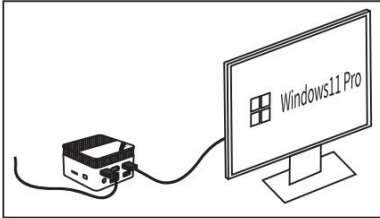
Note: The pictures listed in this manual are for reference only.Product specifications/button definitions and appearance are subject to change without further notice.

Using Your Mini PC

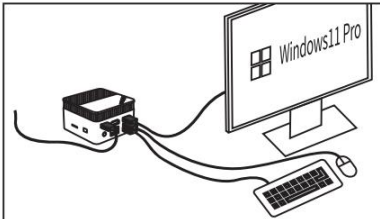
Connection Steps



1. Please use the power adapter that comes with this product;



2. Connect the monitor with the HDMI cable please make sure that the HDMI cable is qualified;



3. Connect the keyboard and mouse;

4. During the first system startup, please follow the Windows startup guide. During this process, remember not to disconnect the power supply. It will take about ten minutes for the first startup to enter the user desktop, please wait patiently;

5. Before the system startup process, please turn off WiFi and LAN and select the "skip option" to prevent being unable to skip registration and log in to your personal account after connecting to the internet.

*Picture for reference only

Attached VESA Installation

Attach the VESA bracket (included in the package box) to the back of a monitor. This allows you to securely hang the Mini PC on the back of the monitor, keeping your workspace tidy.



*Picture for reference only

1.Install the VESA mount bracket on the back of the Mini PC with a VESA hole.

2.Install the VESA mount bracket on the back of the monitor with a VESA hole.

Secure the bracket using the provided screws. while installing the VESA mount bracket.

Basic Setting

Entering the BIOS Settings

The BIOS (Basic Input/Output System) contains the hardware configuration settings necessary for starting your Mini PC.

Under normal circumstances, the default BIOS settings are sufficient to ensure optimal system performance, You should only modify the BIOS settings in the following scenarios:An error message appears during startup, prompting you to access the BIOS settings.You need to configure or update the BIOS after installing new system components.

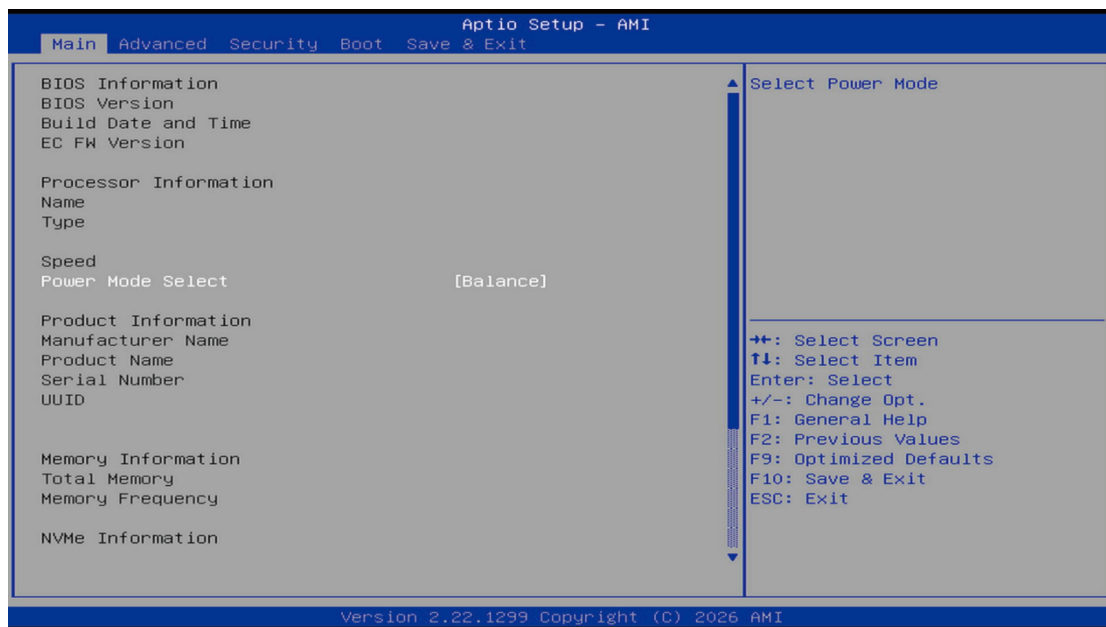
Warning! Improper BIOS settings may result in system instability or failure to boot. It is strongly recommended to make changes to BIOS settings only under the guidance of trained professionals.

In the shutdown state, press the power button, the button light will turn on,and then continuously click the ESC key on the keyboard until the system BIOS interface - Aptio Setup AMI interface appears on the screen.

Instructions to Change Boot Mode to Auto Power On (Power On)

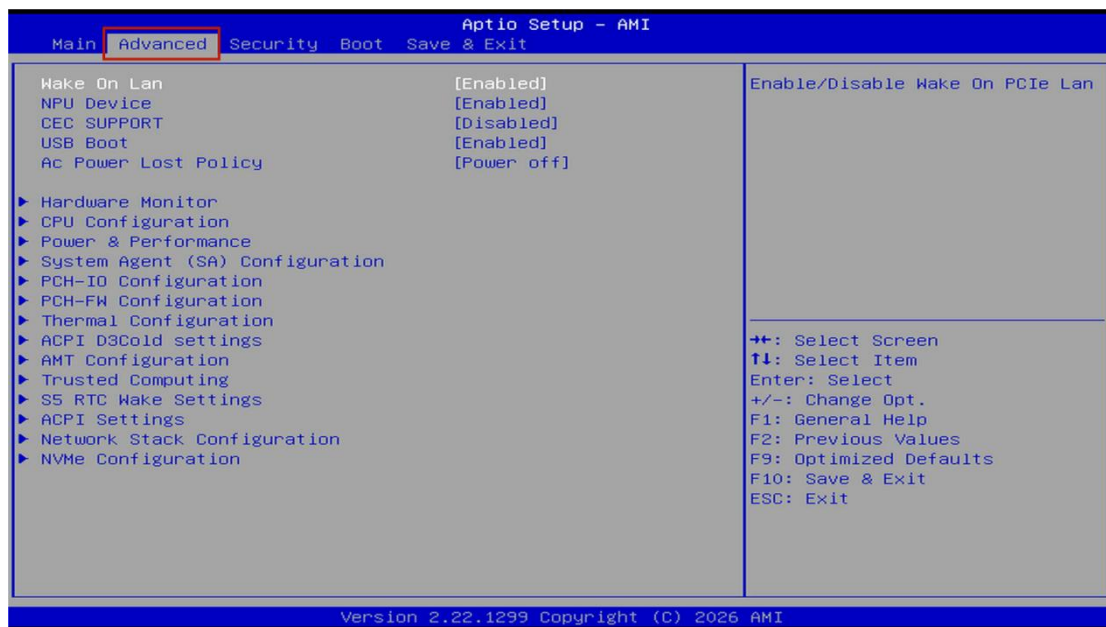
1. Enter BIOS

Press the ESC key repeatedly during system startup to enter the BIOS setup screen.



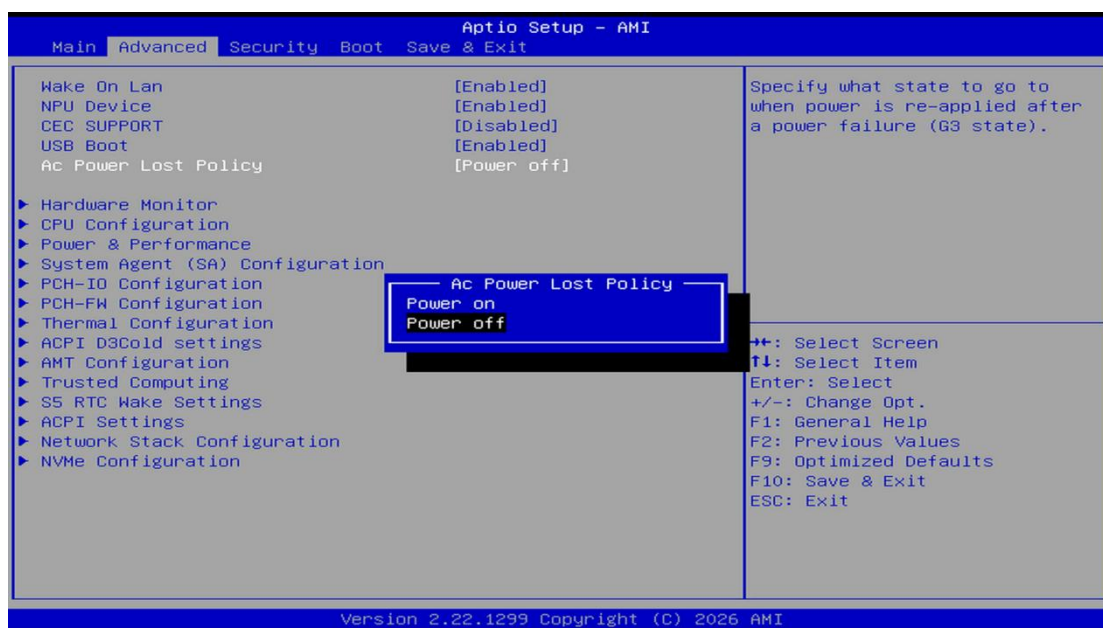
2. Go to Advanced

Use the right arrow key (→) to select the Advanced menu.



3. Select AC Power Lost Policy

Use the down arrow key (↓) to highlight AC Power Lost Policy.



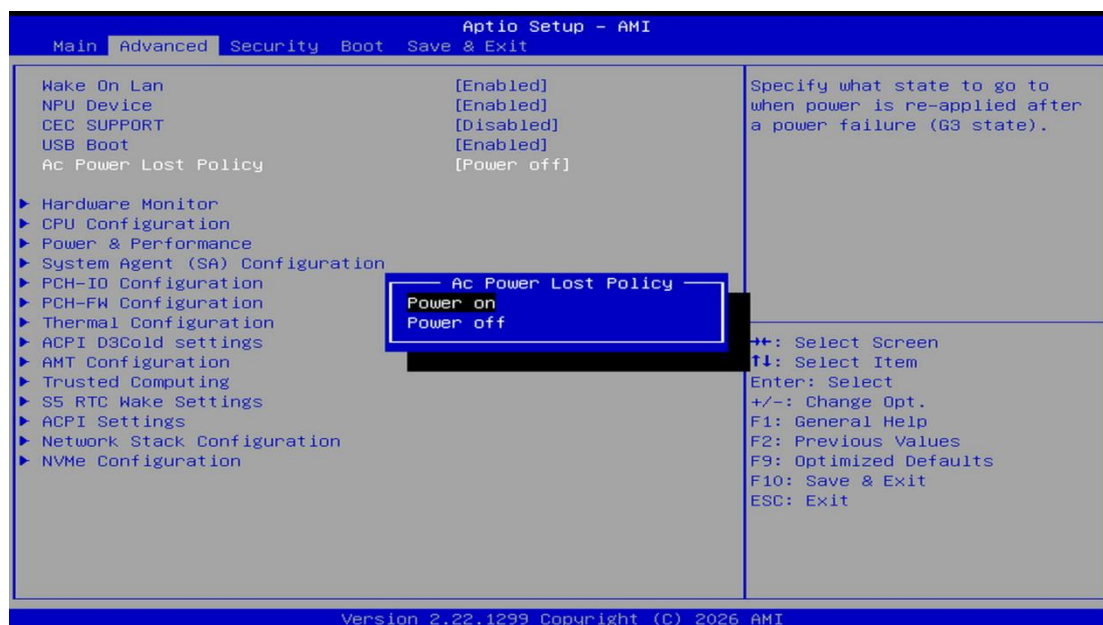
4. Change the AC Power Lost Policy Value

Press Enter to open the sub menu. Use the down arrow key (↓) to cycle through the power-on modes:

Power off – The system requires pressing the power button to start.

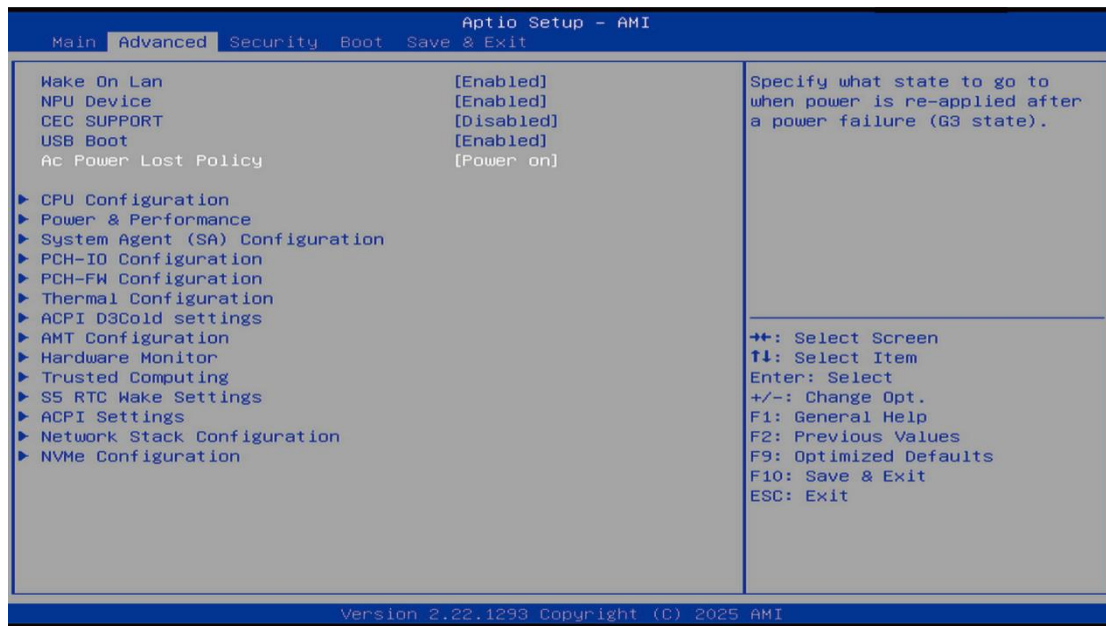
Power on – The system turns on automatically when AC power is restored.

(Factory default is Power off.)



5. Select Power On

Choose Power On and press Enter to confirm.



6. Save Changes and Exit

Use the right arrow key (→) to switch to the Save & Exit screen. Select Save Changes and Exit and press Enter to save the settings and exit BIOS.

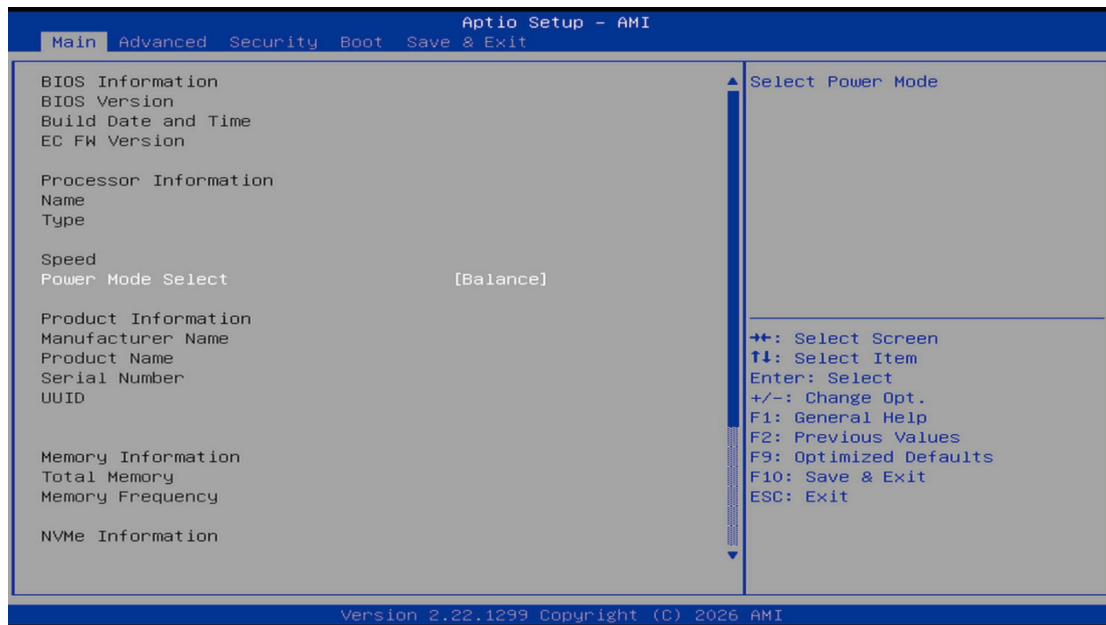


After completing the above steps, the system will start automatically when AC power is applied (auto power on).

Instructions to Configure Wake-On-LAN

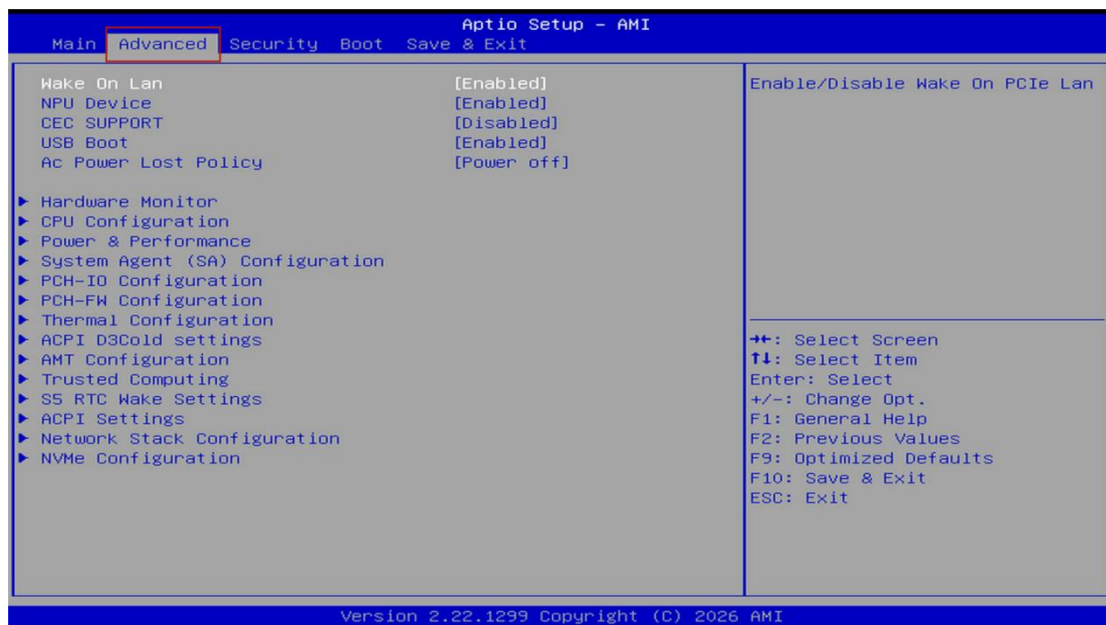
1. Enter BIOS

Press the ESC key repeatedly during system startup to enter the BIOS setup screen.



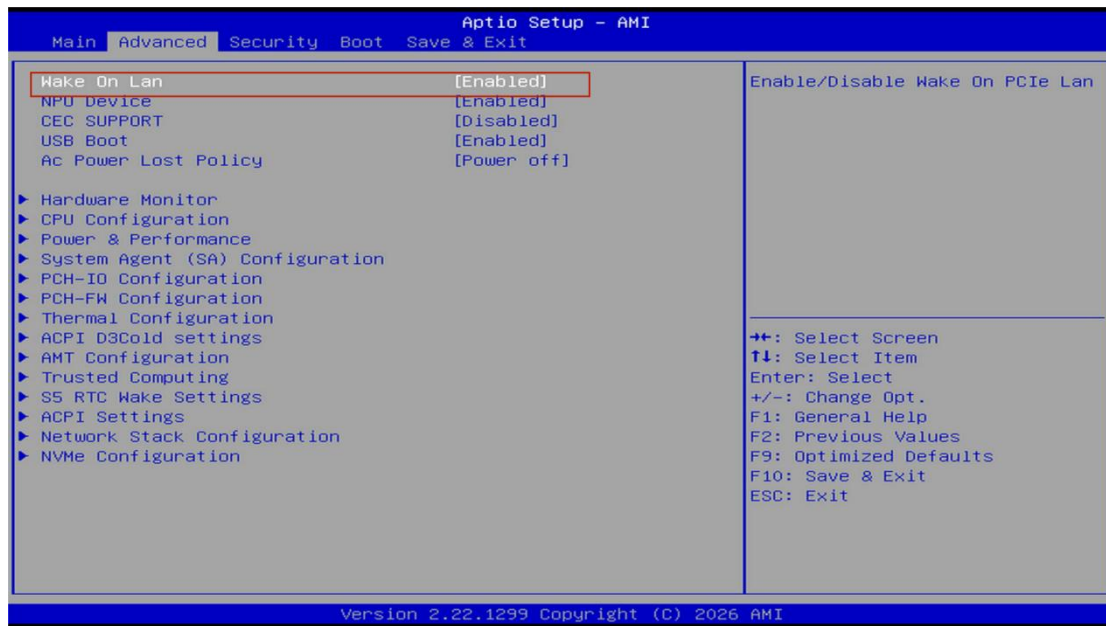
2. Go to Advanced

Use the right arrow key (→) to select the Advanced menu.



3.Select Wake On Lan

Highlight Wake On Lan using the down arrow key (↓).

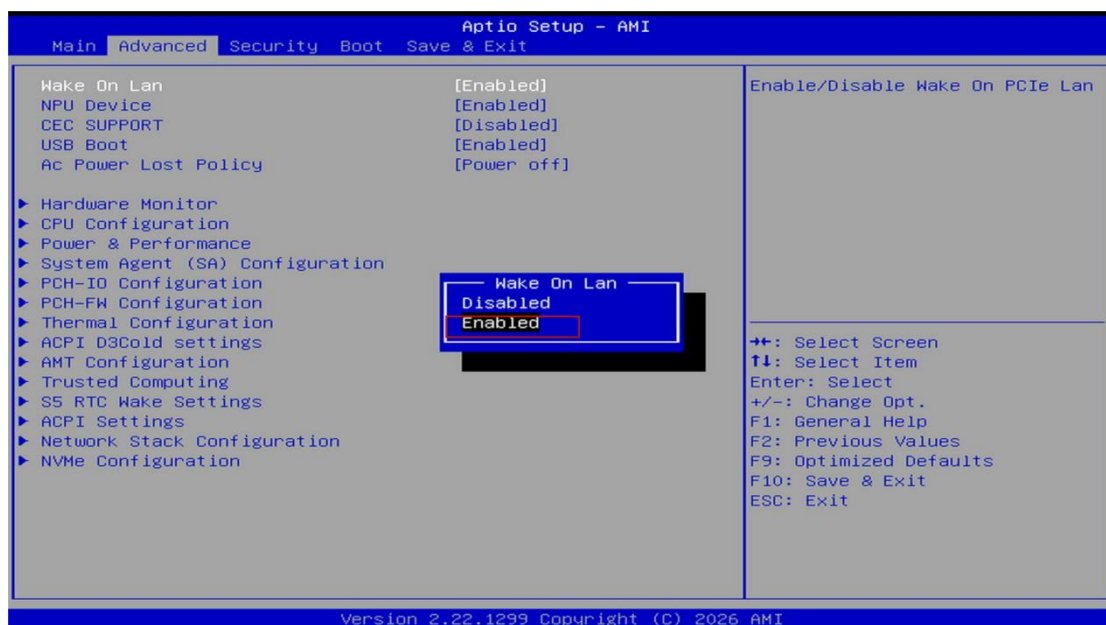


4.Change the Wake On Lan Value (default: Enabled)

Press Enter to open the sub menu. Use the down arrow key (↓) to toggle between the Wake-On-LAN modes:

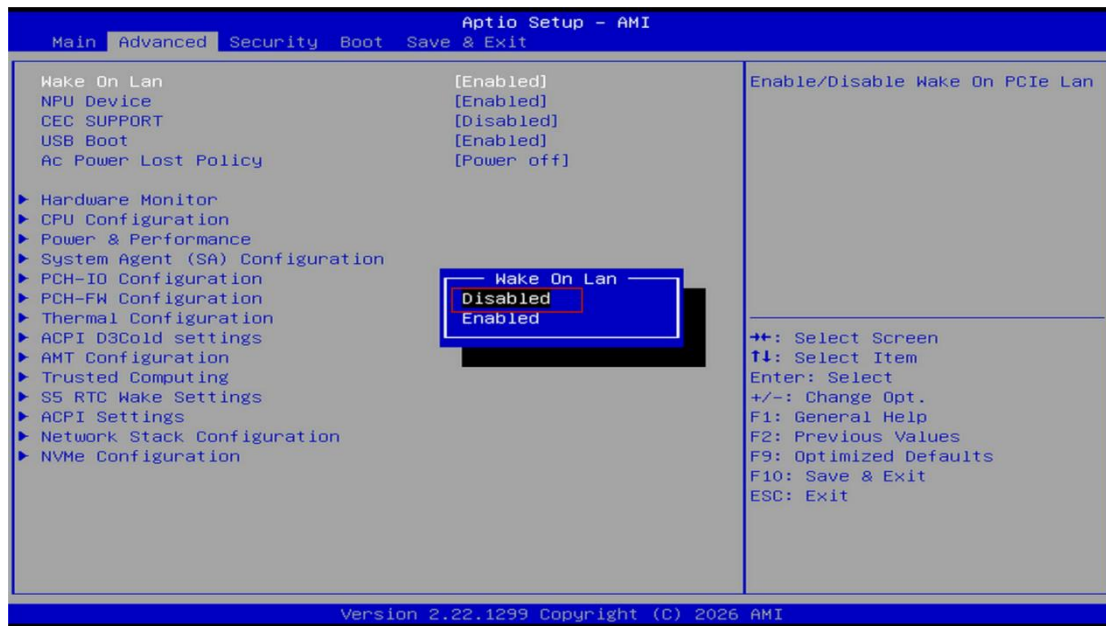
Disabled – Wake-On-LAN is turned off.

Enabled – Wake-On-LAN is turned on.



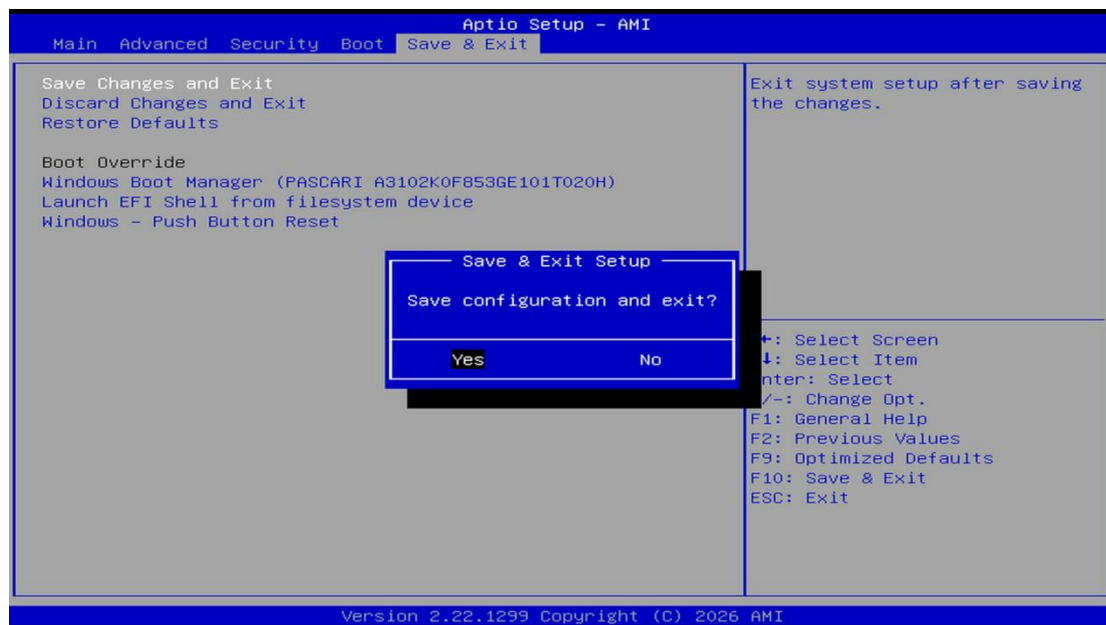
5. Select the desired mode – e.g., Disabled

Choose Disabled (to turn off Wake-On-LAN) and press Enter to confirm.



6. Save Changes and Exit

Use the right arrow key (→) to switch to the Save & Exit screen. Select Save Changes and Exit and press Enter to save the settings and exit BIOS.



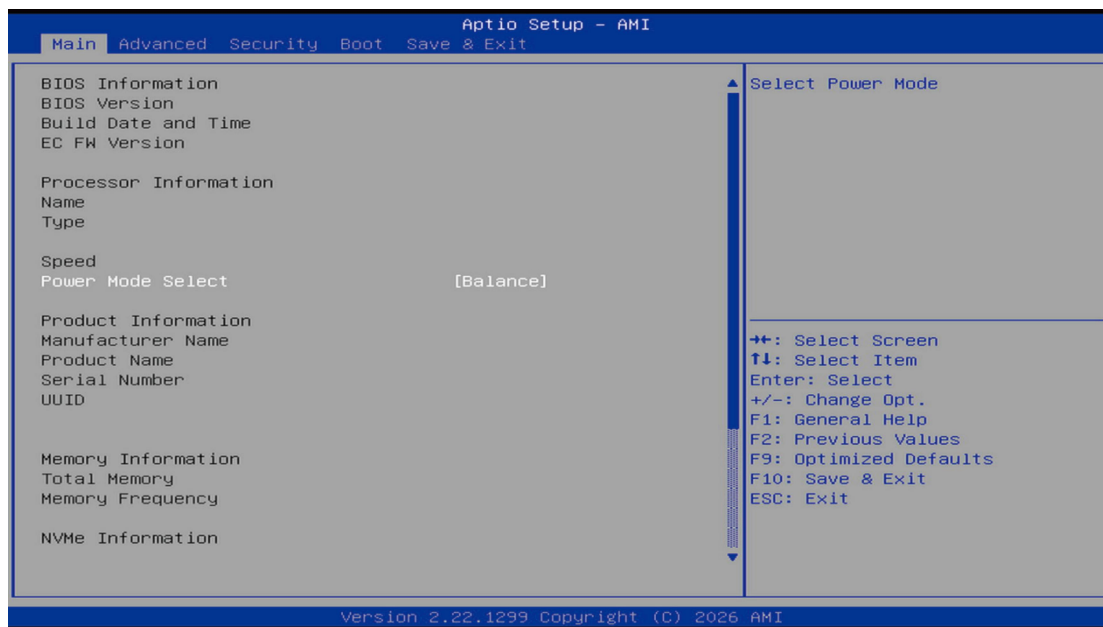
After completing the above steps, the Wake-On-LAN setting will be configured as selected.

Instructions to Configure Thermal Power Mode

1. Enter BIOS

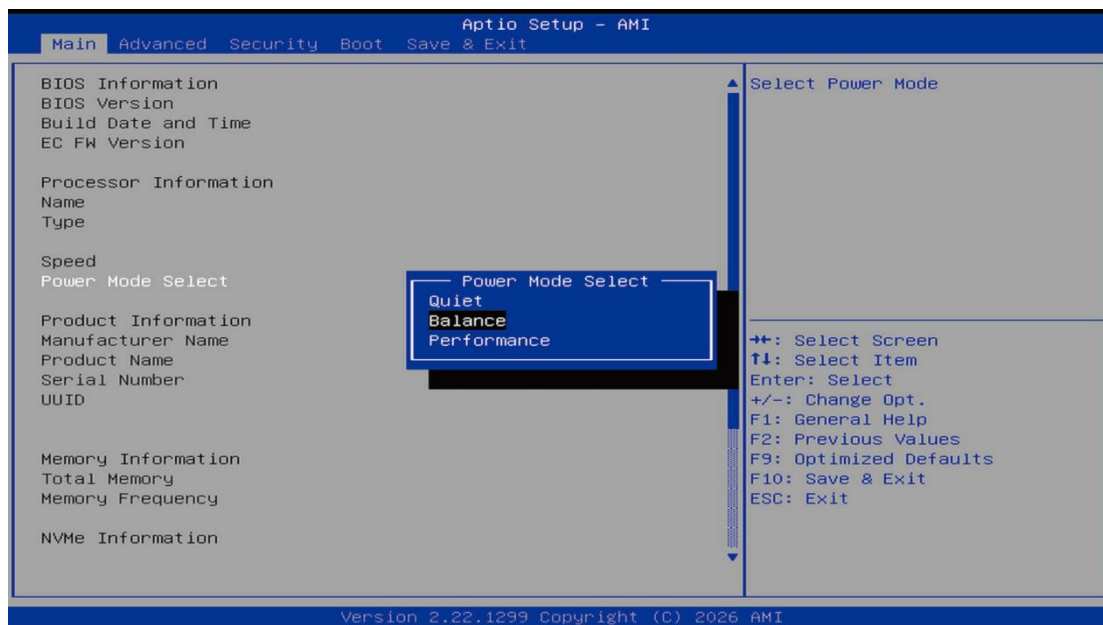
With the device connected to power and turned off, briefly press the power button to start the system.

During startup, press the ESC key repeatedly to enter the BIOS setup screen.



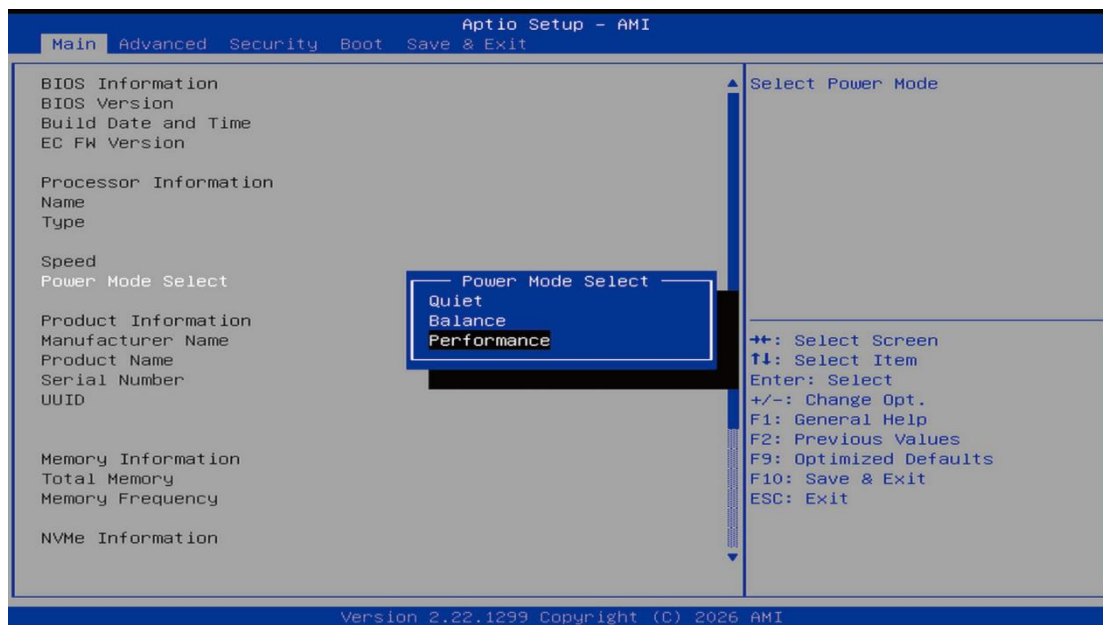
2. Select Power Mode Select

Use the arrow keys to highlight Power Mode Select and press Enter.



3.Change the Power Mode Select Value

Users can adjust the thermal power mode according to their needs (factory default: Balance). Use the down arrow key (↓) to cycle through the available modes.

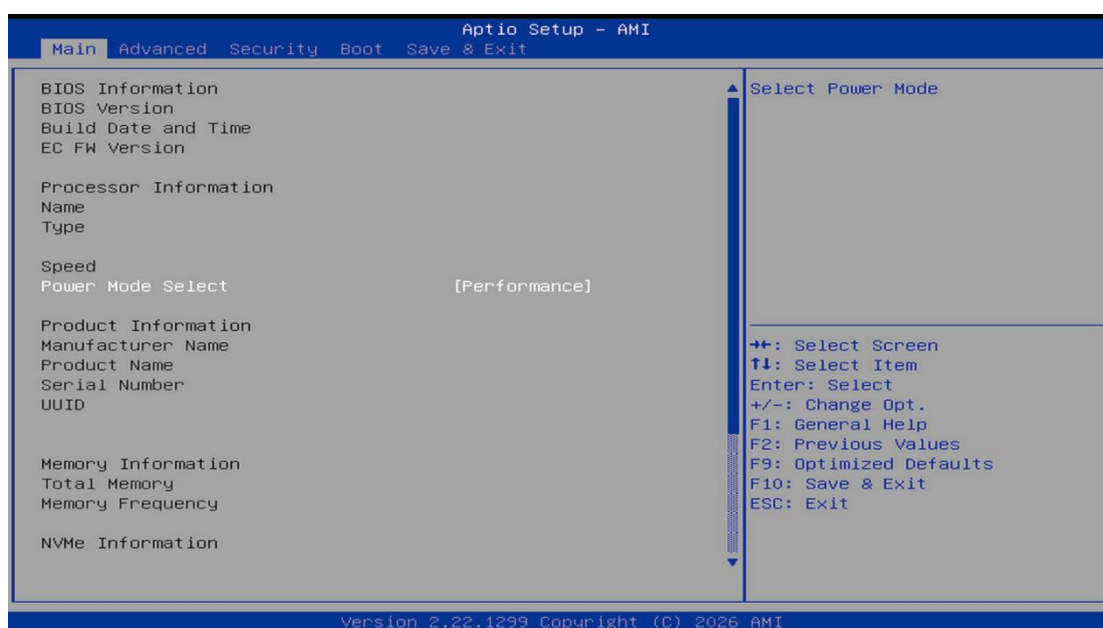


Note:

Quiet – Silent mode ; Balance – Balanced mode ; Performance – Performance mode

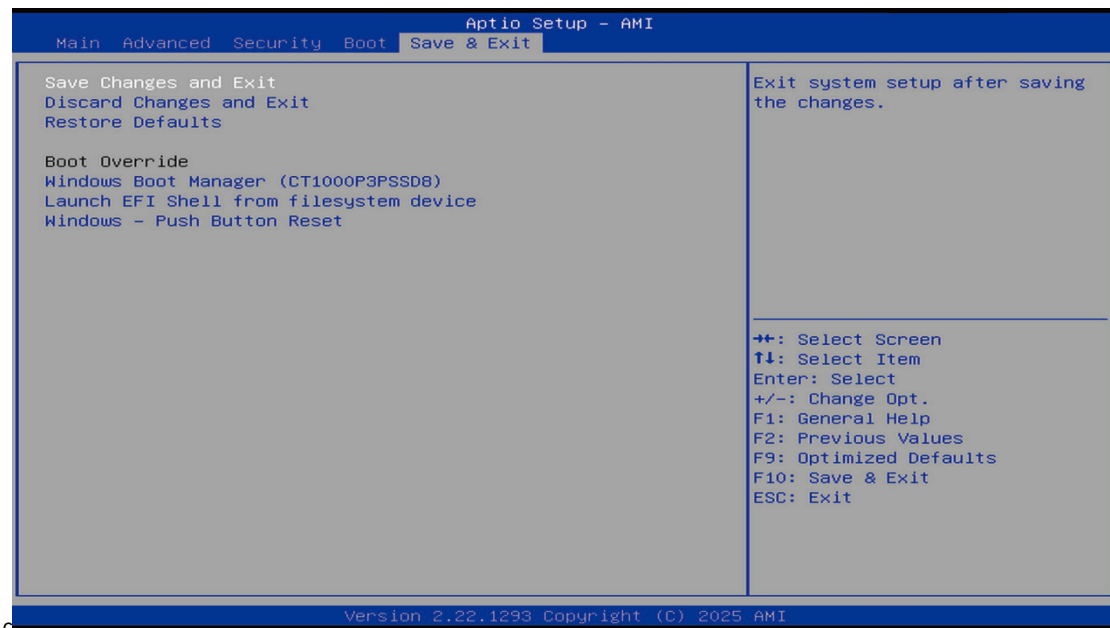
4.Select the desired thermal power mode

Press Enter to confirm the selected mode.



5. Save Changes and Exit

Use the right arrow key (→) to switch to the Save & Exit screen. Select Save Changes and Exit and press Enter to save the settings and exit BIOS.



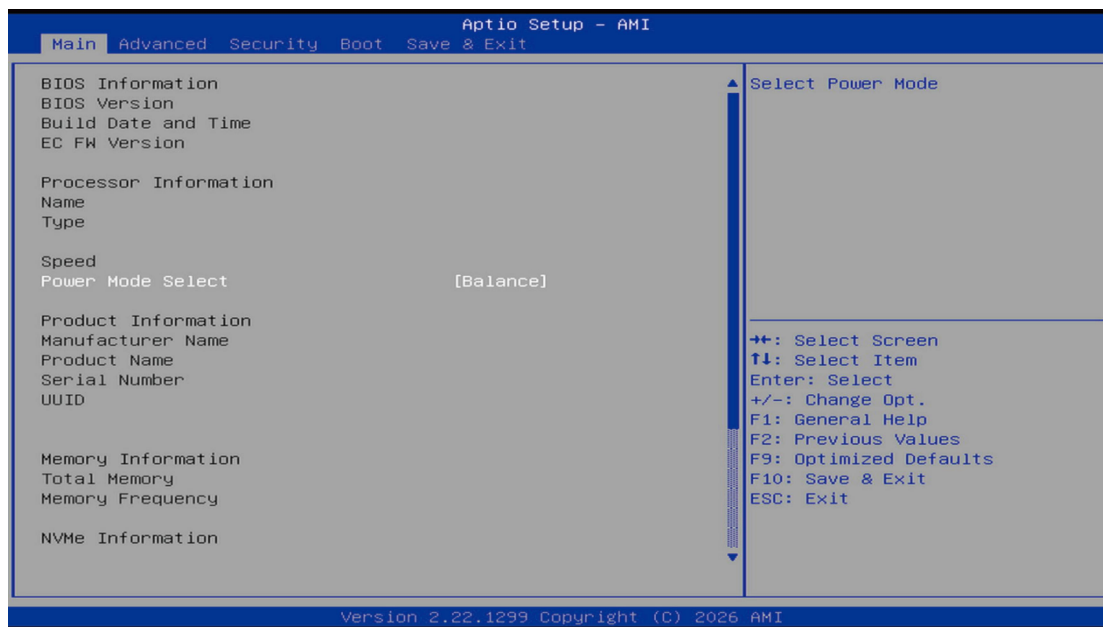
After completing the above steps, the thermal power mode will be successfully changed.

Instructions to Configure Fan Speed

1. Enter the BIOS Interface

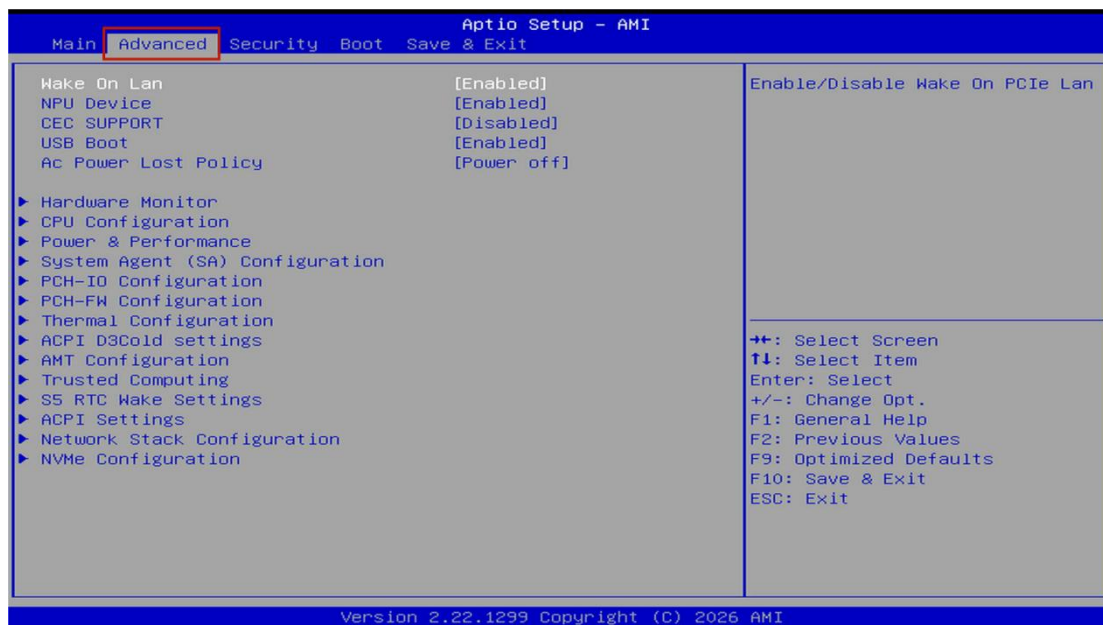
With the device connected to power and turned off, briefly press the power button to start the system.

During startup, press the ESC key repeatedly to enter the BIOS setup screen.



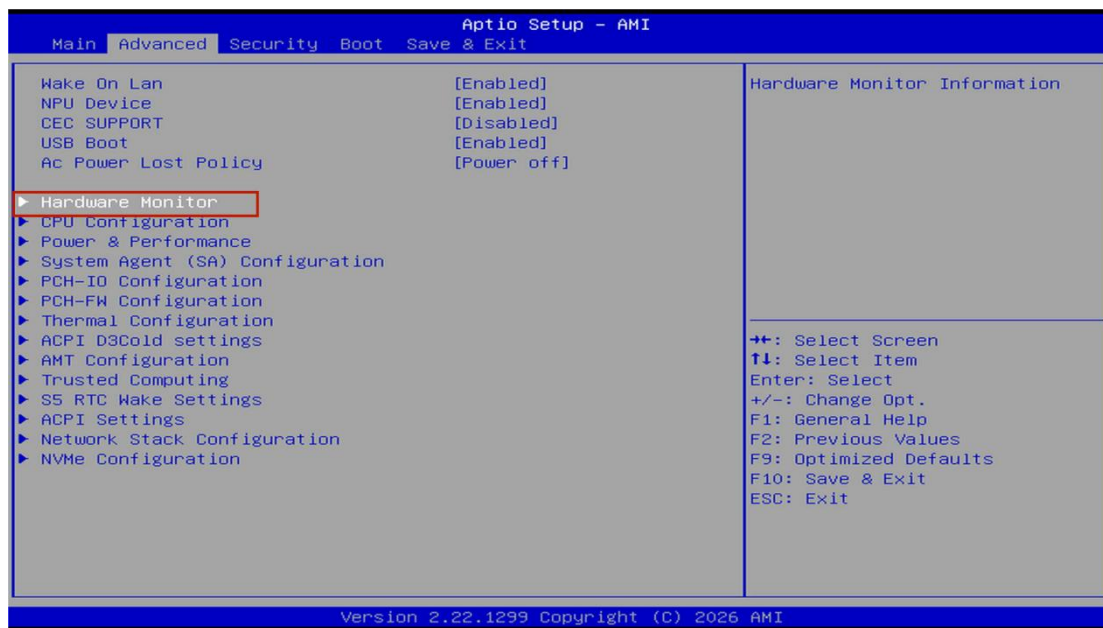
2. Go to the Advanced Interface

Use the right arrow key (→) to select the Advanced menu.



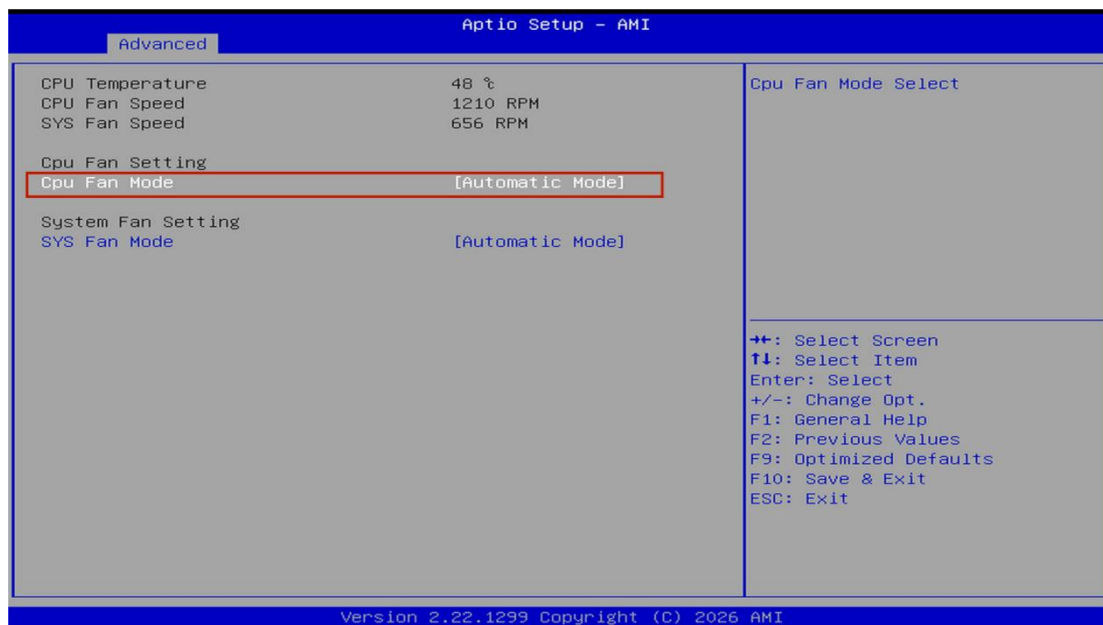
3. Select Hardware Monitor

Use the down arrow key (↓) to highlight Hardware Monitor and press Enter.



4. Access Hardware Monitor Items

Once inside the Hardware Monitor menu, you can view the current fan speeds and adjust the speeds of one CPU fan and one system fan. Select CPU Smart Fan Configuration and press Enter.



5.Set the CPU Fan Mode Option

Press Enter to open the sub menu. Use the down arrow key (↓) to toggle the CPU Fan Mode options:

Manual PWM Mode – Manually adjust the fan duty cycle.

Automatic mode – The fan speed is automatically controlled.

Available parameters:

Fan OFF temperature limit – Temperature at which the fan stops.

Fan Start temperature limit – Temperature at which the fan starts.

Fan Full Speed temperature limit – Temperature at which the fan runs at full speed.

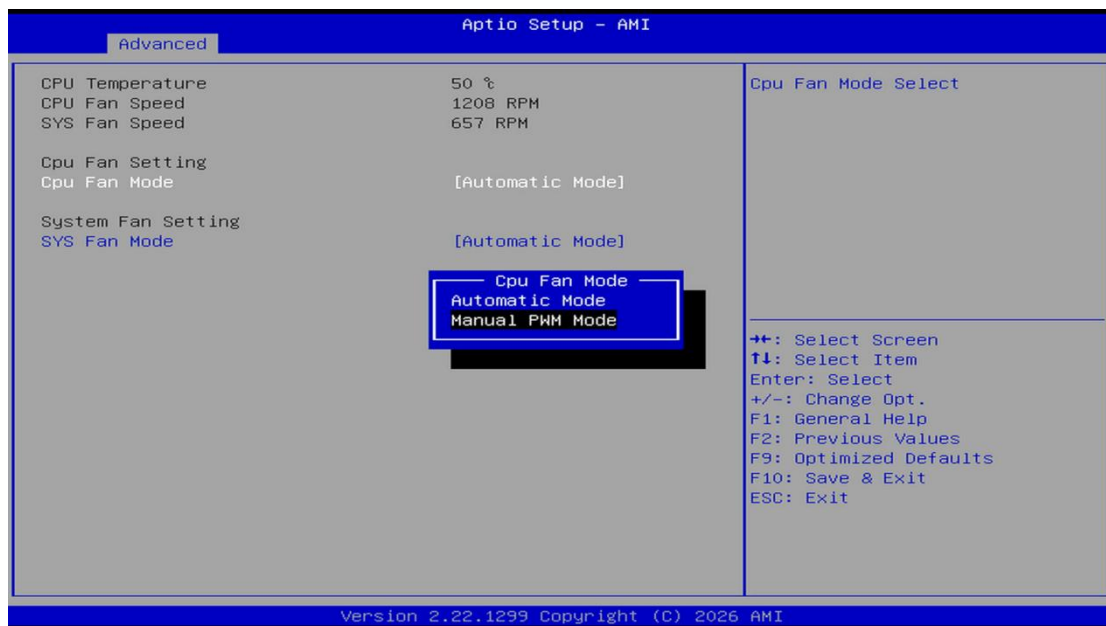
Fan Start PWM – Initial duty cycle (set value × 100%).

PWM SLOPE SETTING – Slope of the PWM curve.

Note:

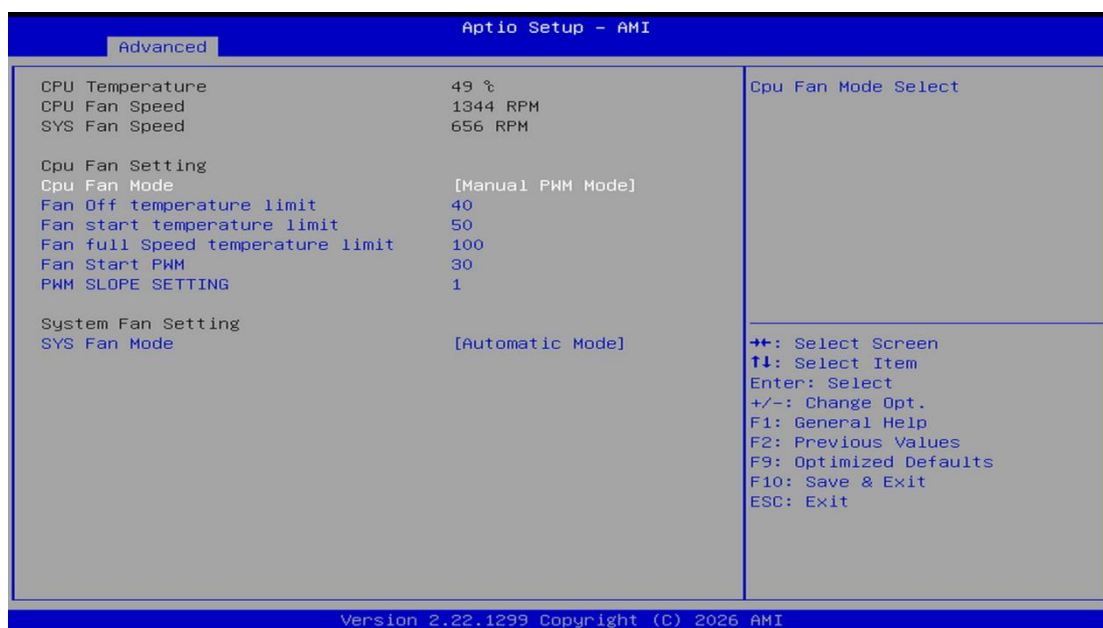
Final fan speed = Maximum fan speed × PWM duty cycle.

PWM duty cycle = [Initial duty cycle set value + (Current device temperature – Fan start temperature) × PWM slope setting] × 100%.



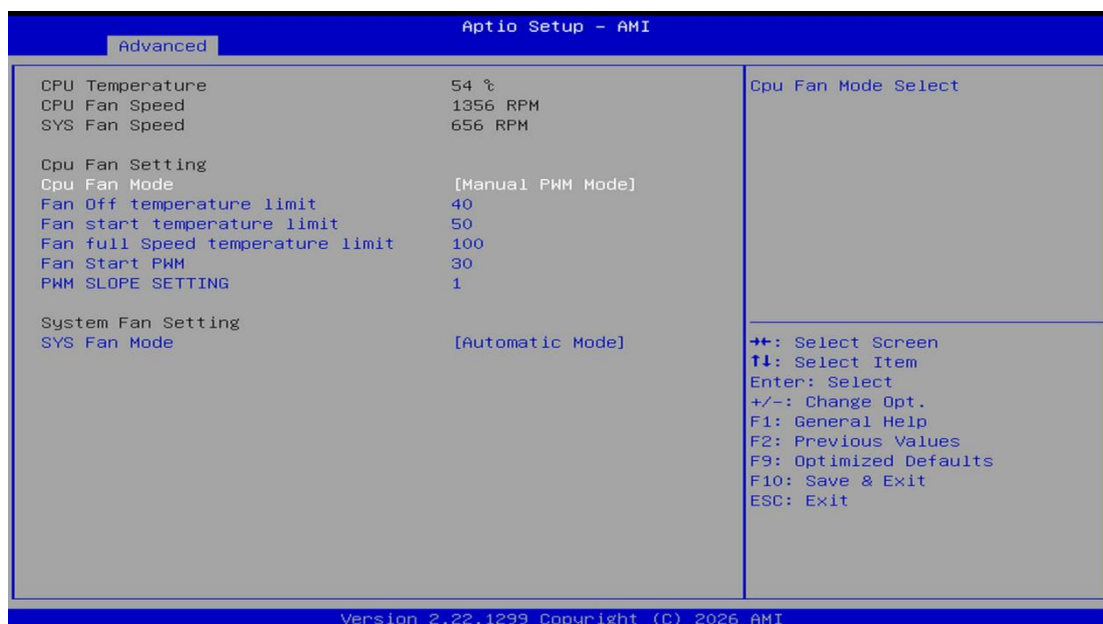
6. Modify the Fan Start Temperature Limit Value

You can manually enter a value or press Enter and then use the +/- keys to adjust the Fan Start temperature limit value. This value sets the lowest starting temperature for full-speed operation.



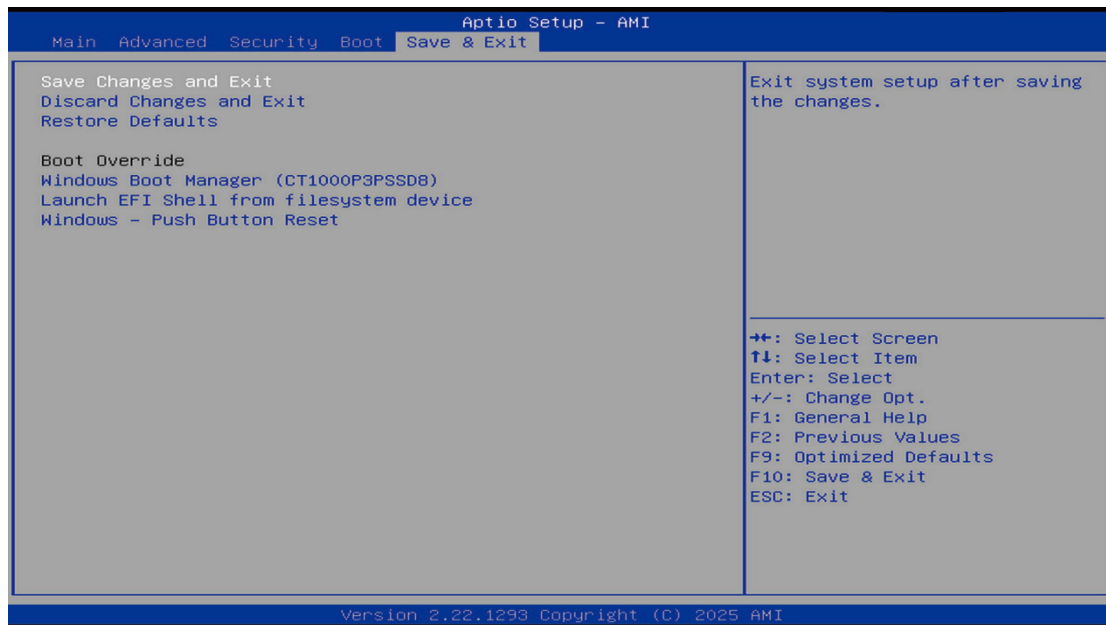
7. Modify the Fan Start PWM (Initial Duty Cycle) Value – Not Recommended

Manually adjust the Fan Start PWM value (set value × 100%). This value determines the percentage of fan speed (Maximum fan speed × (set value × 100%)).



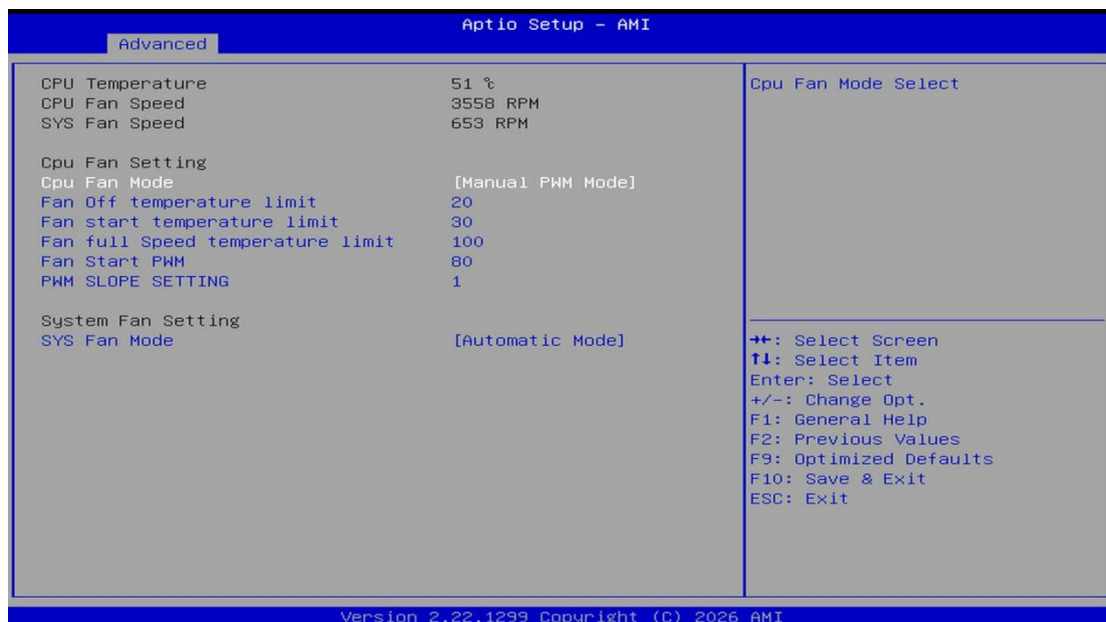
8. Save Changes and Exit

Use the right arrow key (→) to switch to the Save & Exit screen. Select Save Changes and Exit and press Enter to save the settings and exit BIOS.



9. Verify the Fixed Fan Speed Setting

Press ESC to return to the Hardware Monitor page and check whether the CPU fan speed has been successfully modified.



After completing the above steps, the fan speed will be successfully changed.

Upgrading Your Mini PC

Important!

It is recommended that you install or upgrade memory modules, wireless network cards, and solid-state drives (SSD) under professional supervision. Visit a GMK authorized service center for further assistance.

Before starting any installation, ensure your hands are dry. Before installation, wear an anti-static wrist strap or touch a grounded object or metal surface to prevent static damage to components.

Note: The illustrations in this chapter are for reference only. The appearance of slots may vary depending on the model.

Disassembly Method

The device adopts a plastic snap-fit design, and the top cover is secured without screws.

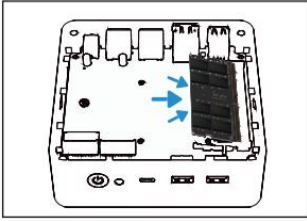
Removing the TOP Cover

1. Turn off your Mini PC and disconnect all cables and devices.
2. Place the Mini PC on a stable, flat surface with the bottom of the device facing downward.
3. Hold the main unit firmly, then gently lift the top cover from its edge.
4. Loosen the surrounding clips one by one with even force to remove the top cover.
5. After upgrading internal components (such as memory or storage), align the top cover with the chassis and press down evenly until all clips are fully engaged.

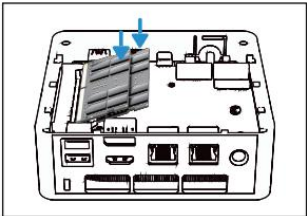
Note: Operate gently to avoid damage to the clips or housing. Disassembling other internal components may void the warranty.

Installing Memory Modules

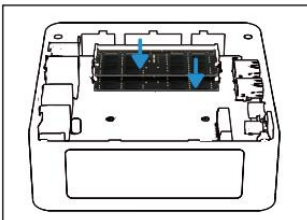
Your Mini PC is equipped with two SO-DIMM slots, allowing the installation of up to two memory modules.



1. Align the memory module with the slot and insert it.



2. Press the memory module down gently until it clicks into place.

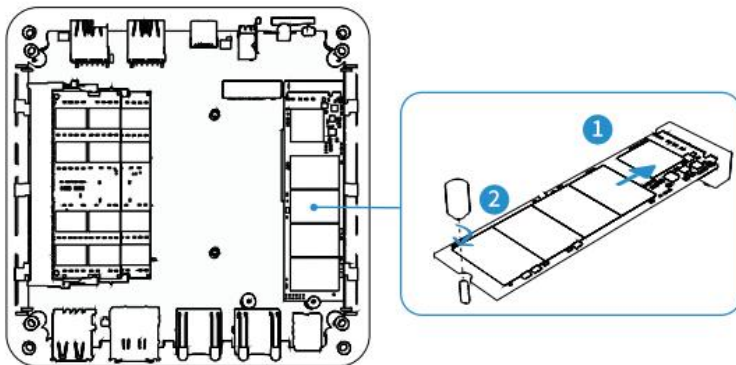


3. Repeat the same steps to install additional memory modules.

*Picture for reference only

Installing M.2 SSDs

Your Mini PC features two M.2 slots inside the Mini PC.



*Picture for reference only

Install the M.2 SSD to the Mini PC:

1. Align the M.2 SSD with slots and insert it.

2. Gently push the M.2 SSD downward onto the standoff, then use one of the included screws to secure it.

3. Repeat the same steps to install another M.2 SSD if needed.

Installing a Wireless Network Card

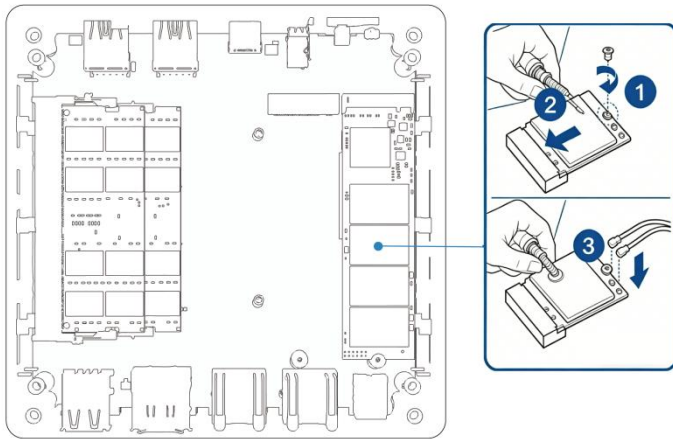
1. Gently push the wireless network card downward onto the standoff, then use the included screw to secure it.

2. Attach the antenna to your wireless network card.

Notes:

Connecting an antenna to your wireless network card can enhance the wireless signal.

A soft click sound indicates that the antenna is securely connected to the wireless network card.



*Picture for reference only

Certification & Compliance

FCC Compliance Statement

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.

EU Declaration Of Conformity

We, Shenzhen GMK Technology Co., Ltd.

Address: Floor 9, No.2 Building, Yingtai Kehui Plaza, No.8 Yingtai Road, Langkou Community, Dalang Street, Longhua District, Shenzhen City, Guangdong Province China 518109

Model Number: K11

Complies with the following EU Directives:

Electromagnetic Compatibility Directive (2014/30/EU)

Low Voltage Directive (LVD) 2014/35/EU

Restriction of Hazardous Substances (RoHS) Directive (2011/65/EU), (2015/863/EU)

Radio Equipment Directive (RED) (2014/53/EU)

Harmonized Standards Applied:

1.Low Voltage Directive (LVD) 2014/35/EU

EN IEC 62368-1:2020+A11:2020 (Safety of IT/AV equipment)

EN IEC 62311:2020 (EMF exposure limits)

2.Electromagnetic Compatibility (EMC) Directive 2014/30/EU

EN 55032:2015/A11:2020 (Emissions)

EN 55035:2017/A11:2020 (Immunity)

EN IEC 61000-3-2:2019/A1:2021 (Harmonics)

EN 61000-3-3:2013/A2:2021 (Voltage fluctuations)

3.Radio Equipment Directive (RED) 2014/53/EU

EN 300 328 V2.2.2 (2019-07) (2.4 GHz band, e.g., Wi-Fi/Bluetooth)

EN 301 893V2.1.1 (2017-05) (5 GHz band, e.g., Wi-Fi5/6)

EN 301 489-1 V2.2.3 (2019-11) (General EMC for radio equipment)

EN 301 489-17 V3.3.1 (2024-09) (2.4/5 GHz specific EMC)EN 18031-1:2024

EN 18031-2:2024

4.Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU

IEC 62321 Series (Testing for restricted substances):

IEC 62321-3-1:2013 (Lead, mercury, cadmium screening)

IEC 62321-5:2013 (Cr6 and PBB/PBDE) IEC 62321-4:2013 + AMD1:2017 CSV (Hg in polymers/electronics)

IEC 62321-6:2015 (Phthalates in plastics)

IEC 62321-7-1:2015 (Hexavalent chromium)

IEC 62321-7-2:2017 (Br/Cl in polymers)

IEC 62321-8:2017 (Phthalates in coatings)

This product is marked with the CE symbol to confirm compliance with EU regulations.

The aforementioned product meets all essential requirements of the applicable EU directives. The full technical documentation, including test reports and risk assessments, is retained and available for inspection by relevant authorities for 10 years after market placement.

Signed for and on behalf of: Shenzhen GMK Technology Co., Ltd. Compliance Officer 2026-04 Shenzhen, China

Appendix

Safety Warnings and Precautions

Please read and observe the following precautions carefully before using the device to avoid bodily injury, equipment damage or abnormal operation.

Use Environment

Keep the device away from dusty, humid or extreme temperature environments.

Operating temperature: 0°C – 40°C; relative humidity: 10%–90% RH (non-condensing).

Do not place near heat sources such as radiators or heaters.

Do not place on uneven or unstable surfaces. Use the dedicated stand if provided.

Maintain sufficient ventilation space around the device for heat dissipation. Keep paper scraps, screws, wires and other small objects away from ports and openings to prevent short circuits.

Power Safety

Use only the original power adapter specified for this product. Using an incompatible adapter may damage internal components.

Waterproof

This device is not waterproof. Keep it dry at all times.

Operation & Maintenance

Do not insert sharp or foreign objects into any openings or internal parts of the device to avoid short circuits or circuit damage.

Do not drop, bump or violently shake the device.

Keep the ventilation area at least 20 cm away from your body during installation or operation.

All maintenance and repair services must be performed by authorized service personnel. Do not disassemble or modify the device by yourself.

Usage Precautions

Before use, please check that all components are functioning properly and that the power cable is not damaged or improperly connected.

Keep the product in a dry environment. Rain, moisture, and liquids containing minerals can corrode the electronic circuits. To avoid potential electric shock damage, always unplug all power cables from the power socket before cleaning or moving the product.

If you encounter any of the following issues, or any technical problems while using the product, please contact your authorized distributor.

- Damaged power cable or charger.
- The computer or accessories have been exposed to water.
- The computer does not operate normally despite following the instructions.
- The computer has been dropped or the chassis is damaged.
- The computer's performance is abnormal.

Lithium Battery Safety Warning

Replacing the battery incorrectly could cause an explosion. Please follow the manufacturer's instructions and use the same type or model of battery. Also, dispose of used batteries according to the manufacturer's instructions.

Do Not Disassemble or Reassemble Yourself Warning

Do not disassemble or repair the product yourself. Any unauthorized disassembly will void the warranty.

Service and Support

Please visit our multilingual websites:

Web: www.gmktec.com

Facebook: [@gmktec](https://www.facebook.com/gmktec)

Twitter: [@gmktec](https://twitter.com/gmktec)

Instagram: [@gmktec_official](https://www.instagram.com/gmktec_official)

After Service

Email: support@gmktec.com

Sales: gmk@gmktec.com



Official Website



Facebook Group