

PC615 User Manual



Statement

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The information provided in this manual is accurate and reliable. The company does not take any legal responsibility for the consequences of infringement use of this manual.

Safety Notice

- Read the user manual carefully before setting up the Giada product.
- Disconnect the power cord before installing the internal components
- Most electronic components are sensitive to static electrical charge, please wear a wrist-grounding strap when installing the internal components.
- Do not disconnect the power cord when the system is running to avoid damage to the sensitive components by instantaneous surge voltage.

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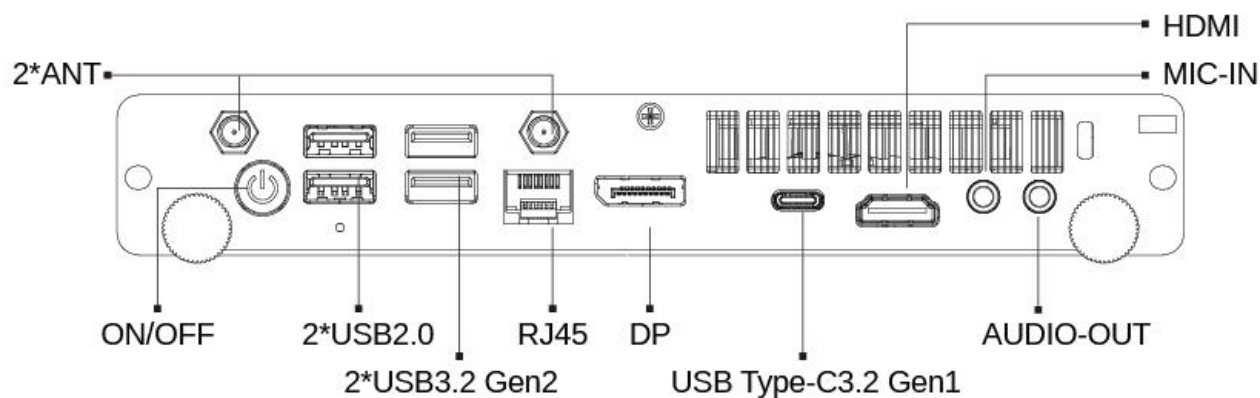
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1. Product Introduction

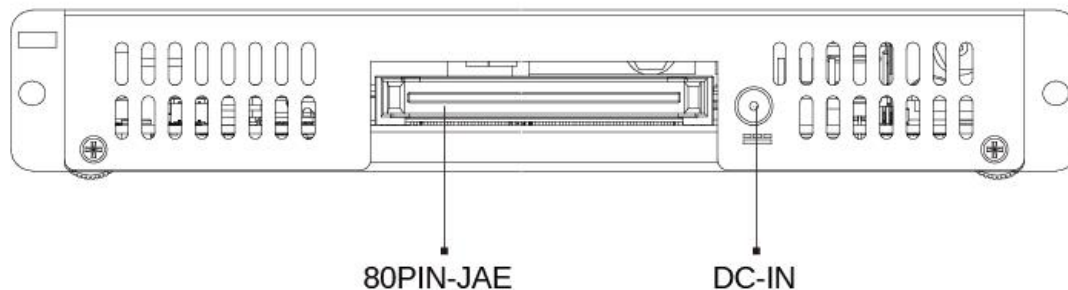
Compliant with Intel OPS standards and based on the Meteor Lake platform, Giada PC615 is powered by Intel Core Ultra processors and supports dual-channel SO-DIMM DDR5-5600 MHz memory, with a maximum capacity of 96GB. The player supports resolutions up to 5K (5120 × 2880 @ 60Hz) via an 80-pin JAE connector. It is an ideal choice for large-format displays and modern interactive whiteboards designed for 24/7 operation.

2. Interface Description and Hardware Specifications

Front I/O Port



Rear I/O Port



3. Accessories Installation Steps

▲ For safety reasons, please ensure that the power cord is disconnected before opening the case.

How to open the cover

Unscrew the seven screws, then push and open the case. (The CPU, 1×SO-DIMM for DDR5 memory, and 1×M.2 (2230) slot for Wi-Fi/BT are located on the top side.)

Unscrew the four screws, then remove the cover. (1×SO-DIMM for DDR5 memory, 1×M.2 (2242/2280) PCIE4.0×4 and SATA for SSD, 1×M.2 (2280) PCIE4.0×4 for SSD)



3.1 Memory Installation

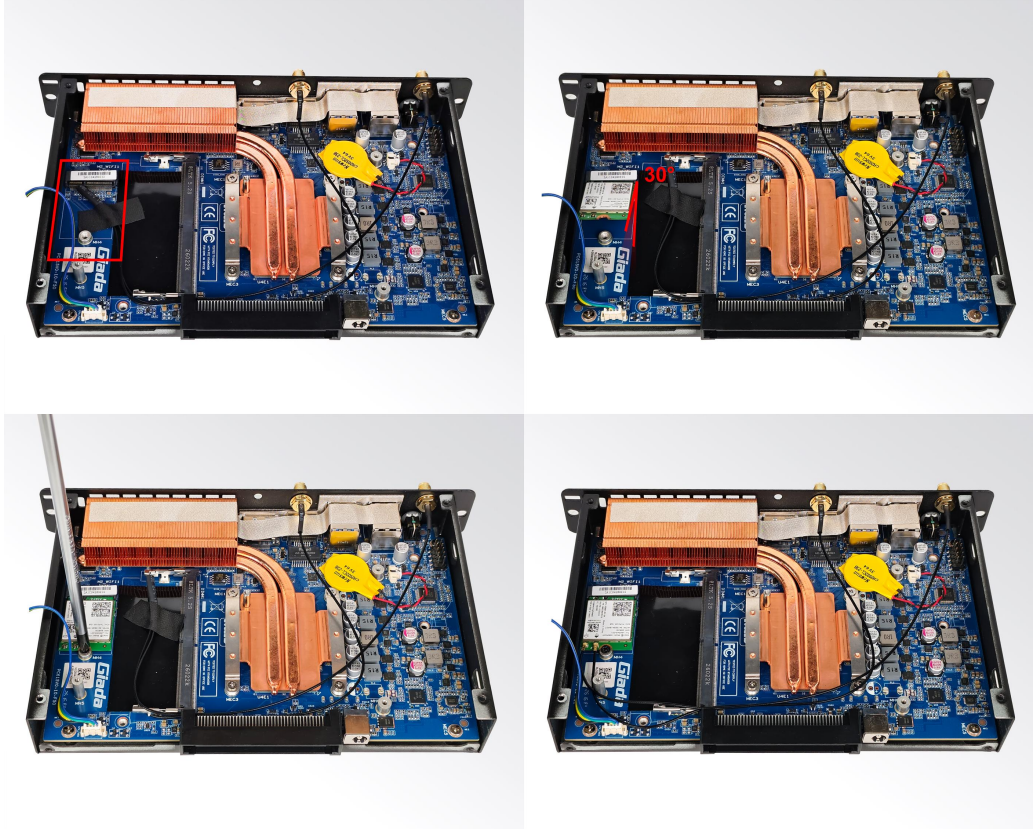
▲ This product only supports DDR5 SO-DIMM memory modules.

1. On the top side, unscrew the two screws and remove the fan. Locate the SO-DIMM #1 slot on the board. On the bottom side, locate the SO-DIMM #2 slot on the board.
2. Gently insert the memory module into the slot at a 45-degree angle.
3. Carefully push down the memory module until it snaps into place.



3.2 WIFI (M.2) Installation

1. Insert the Wi-Fi module into the appropriate slot.
2. Secure the module to the carrier board by tightening the screw.
3. Connect the two black cables to the MAIN and AUX connectors, then install the antennas.



3.3 SSD (M.2) Installation

1. Insert the SSD (M.2) into the appropriate slot.
2. Secure the SSD module to the carrier board by tightening the screw.





3.4 SSD (M.2) Installation

1. Align the M.2 2240 SSD with the extension bracket.
2. Insert the fastening post through the mounting holes of the SSD and the extension bracket to secure them together.
3. Insert the assembled M.2 SSD into the M.2 slot and secure it with the provided screw.





4. BIOS Setup

Notice:

The descriptions relating to BIOS setup in this Manual is for reference only since the BIOS version of the product might be upgraded. Giada provides no guarantee that all the contents in this Manual are consistent with the information you acquired.

BIOS is a basic I/O control program saved in the Flash Memory. Bridging the motherboard and the operation system, BIOS is used for managing the setup of the related parameters between them.

When the computer is activated, the system is first controlled by the BIOS program. Firstly, a self-detection called POST is performed to check all hard devices and confirm the parameters of the synchronous hardware.

Once all detections are completed, BIOS will hand over the controlling to the operation system (OS). As BIOS serves as the only channel that connects the hardware and software, whether your computer can run stably and work in optimized state will hinge on how to properly set the parameters in BIOS. Therefore, the correct setup of BIOS plays a key role in stably running the system and optimizing its performance.

The CMOS Setup will save the set parameters in the built-in CMOS SRAM on the motherboard. When the power is shut off, the lithium battery on the motherboard will provide continuously power to CMOS SRAM.

The BIOS setup program will allow you to configure the following items:

1. HD drive and peripheral devices
2. Video display type and display items
3. Password protection
4. Power management characteristics

A. State of BIOS Setup

When the computer is started up, BIOS will run the self-detection (Post) program. This program includes series of diagnosis fixed in BIOS. When this program is executed, the following information will appear if any error is found:

Press [F1] to Run General help

Press [F2] to Load previous values and continue

To enter BIOS, you can press F2 to load the default values and enter the system, you can press DEL to enter the BIOS interface if no error is found. If the indicative information disappears before you operate, you can shut off the computer and turn it on again, or you can press the RESET key on the product case. To restart your computer, you can also simultaneously press < Ctrl > + < Alt > + < Delete >.

B. Function Keys definitions

Hot Key	Description
↑	(Up key) Move to the previous item
↓	(Down key) Move to the next item
←	(Left key) Move to the left item
→	(Right key) Move to the right item
ESC	Exit the current interface
F1	Display the information of the current function Keys definitions.
F9	Load the optimized values
F10	Save the settings and exit the CMOS SETUP

C. Auxiliary information Main interface

When the system enters the main interface of Setup, the major selected contents will be displayed at the lower part of the interface with the change of the options.

When you set the value for each column, you can view the preset value of the column and the values that can be set if you press F2, for example, the BIOS default values or CMOS Setup values.

To exit the interface for auxiliary information, press [ESC].

1) Main menu

When the system enters the CMOS Setup menu, you can see the main menu on the upper part of the screen, as shown in Figure1.

In this main menu, you can use the left and right direction keys to select the setup items.

Once the item is selected, the lower part of the computer screen will show the details of setting.

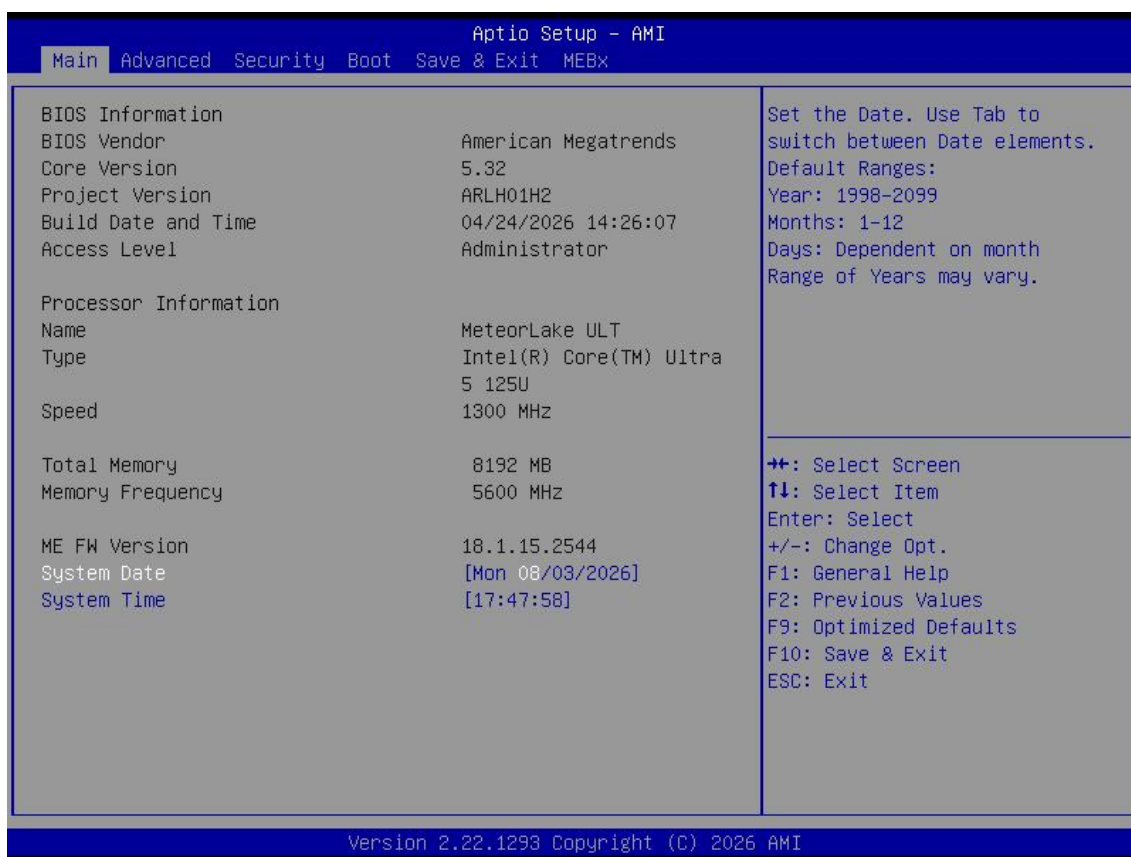


Fig 1

1) Main (standard CMOS setup)

This item is used for setting the date and time.

2) Advanced (advanced BIOS setup)

This item is used for setting the advanced functions provided by BIOS, such as specifications of PCIe facilities, CPU, HDD, etc.

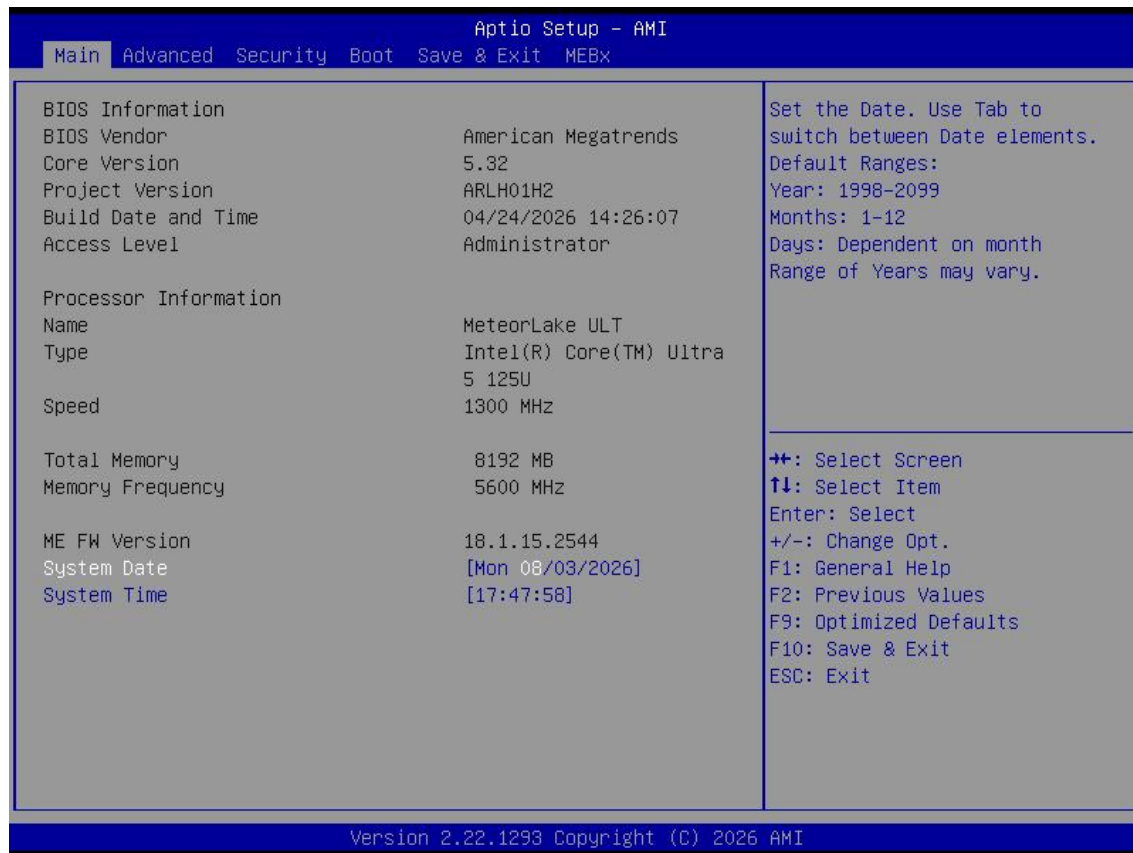
3) Security (set the administrator/user password)

4) Boot (startup configuration characteristics)

5) Save & Exit (option of exit)

This item includes load optimal defaults / load failsafe defaults value / discard changes / discard changes and exit.

4.1 Main (Standard CMOS setting)



1) System time (hh:mm:ss)

Use this item to set the time for the computer, with the format as "HH / MM / SS".

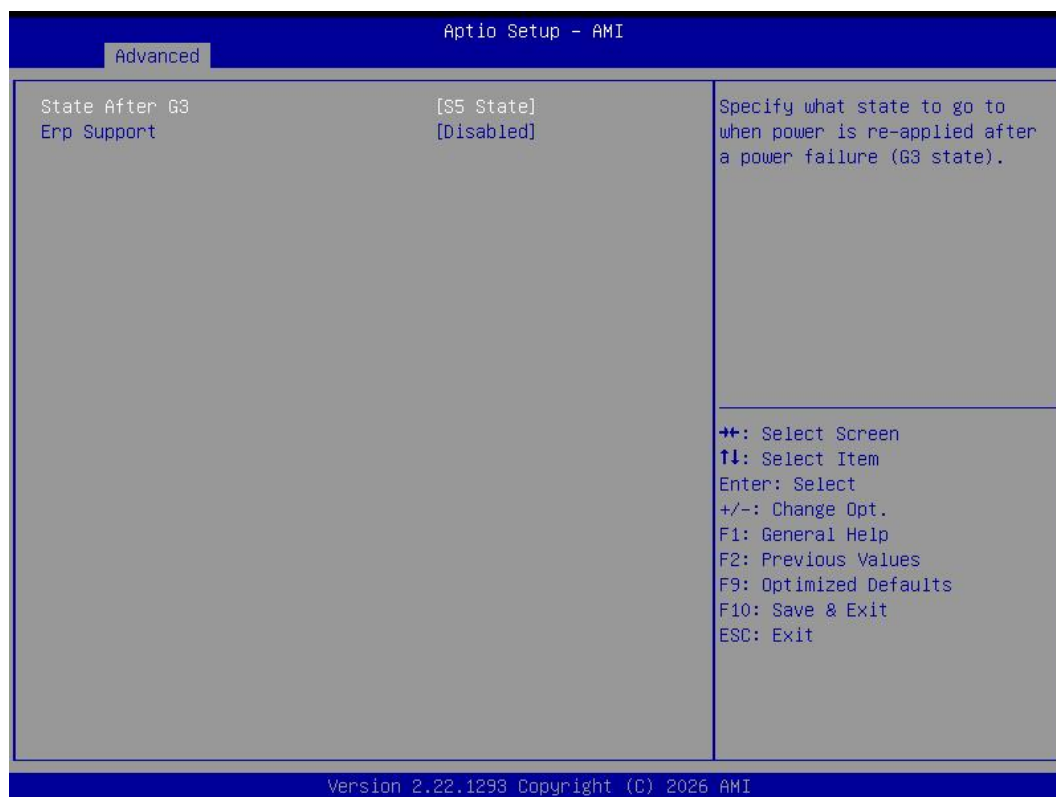
2) System date (mm:dd:yy)

Use this item to set the date for the computer, with the format as "week, MM / DD / YY".

4.2 Advanced (Advanced BIOS setup)

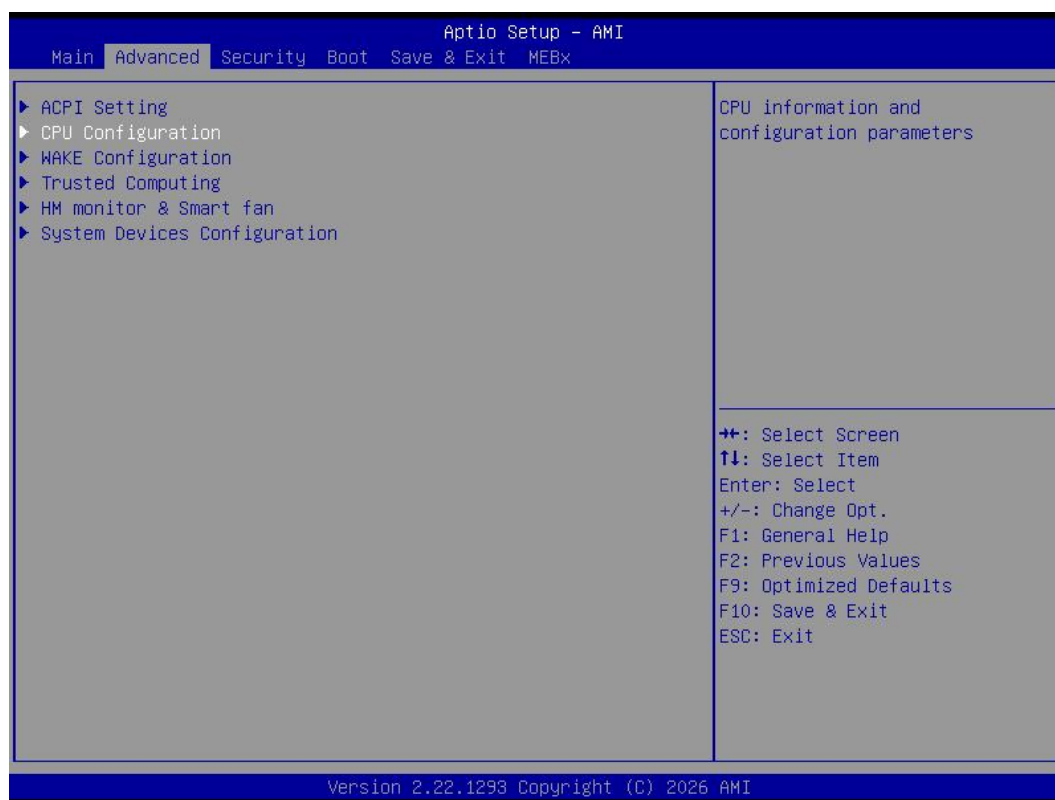


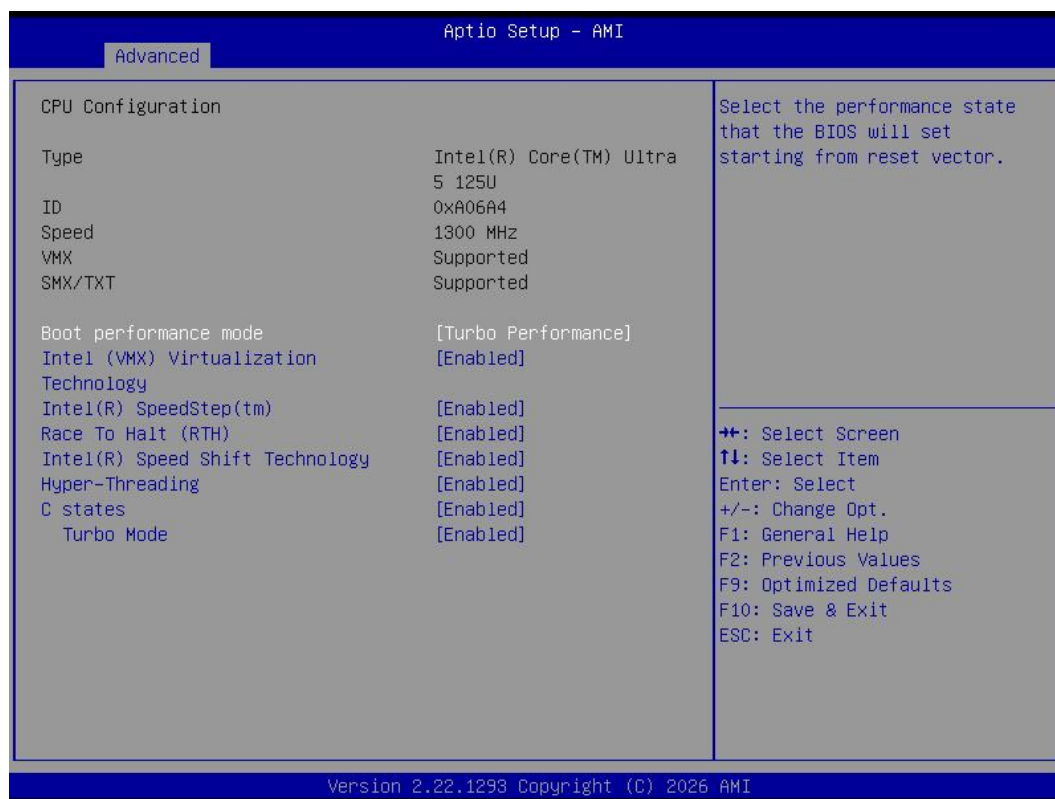
4.2.1 ACPI Setting



ACPI Setting Menu	Description
State After G3	- State After G3 means after restore power supply. - S5 State (Default): If set it as S5 State, it means the system will remain shutdown state - S0 State: If set it as S0 State, it means the system will be power on automatically.
Erp Support	ErP Support is a power management energy-saving feature. Its core function is to ensure that when the computer is shut down or in sleep mode, the system's standby power consumption complies with the European Union's environmental regulations.

4.2.2 CPU Configuration

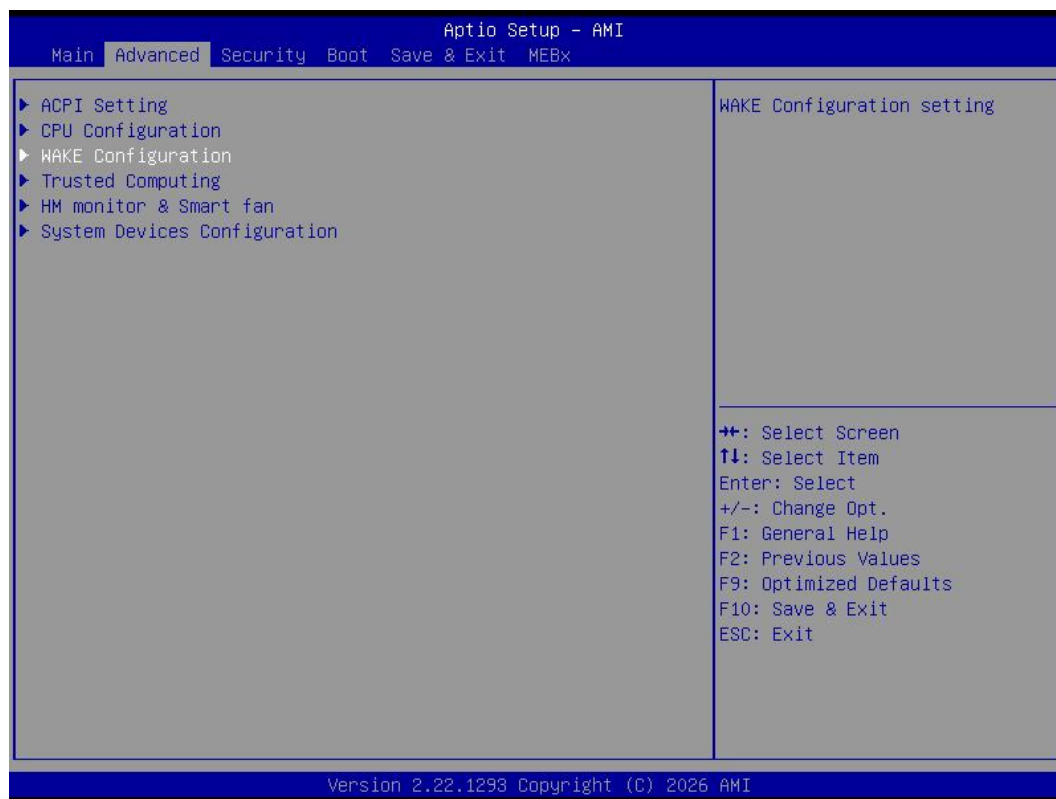




CPU Configuration Menu	Description
CPU Configuration	
Boot performance mode	● Max Battery ● Max Non-Turbo Performance. ● Turbo Performance.
Intel(R) Virtualization Technology	Intel Virtualization Technology is enabled by default. User can enable and disable the Intel Virtualization Technology function.
Intel(R) SpeedStep(TM)	Intel(R) SpeedStep Technology dynamically increases the processor's frequency as needed by taking advantage of thermal and power headroom to give you a burst of speed when you need it, or increased energy efficiency. The option is enabled by default. You can disable the function if it's necessary.
Race To Halt (RTH)	The Race To Halt(RTH) function is enable by default. It can adjust the CPU base frequency work in C-state. Optional: C-state.
Intel(R) Speed Shift Technology	Intel speed shift function is enabled by default. Intel® Speed Shift Technology uses hardware-controlled P-states to deliver dramatically quicker responsiveness with single-threaded, transient (short duration) workloads, such as web browsing, by allowing the processor to more quickly select its best operating frequency and voltage for optimal performance and power efficiency.

Hyper-Threading	Intel Hyper-Threading technology is enabled by default. Intel® Hyper-Threading Technology (Intel® HT Technology) delivers two processing threads per physical core. Highly threaded applications can get more work done in parallel, completing tasks sooner.
C states	The C-State function is disabled by default.
Turbo Mode	● Disabled. ● Enabled.

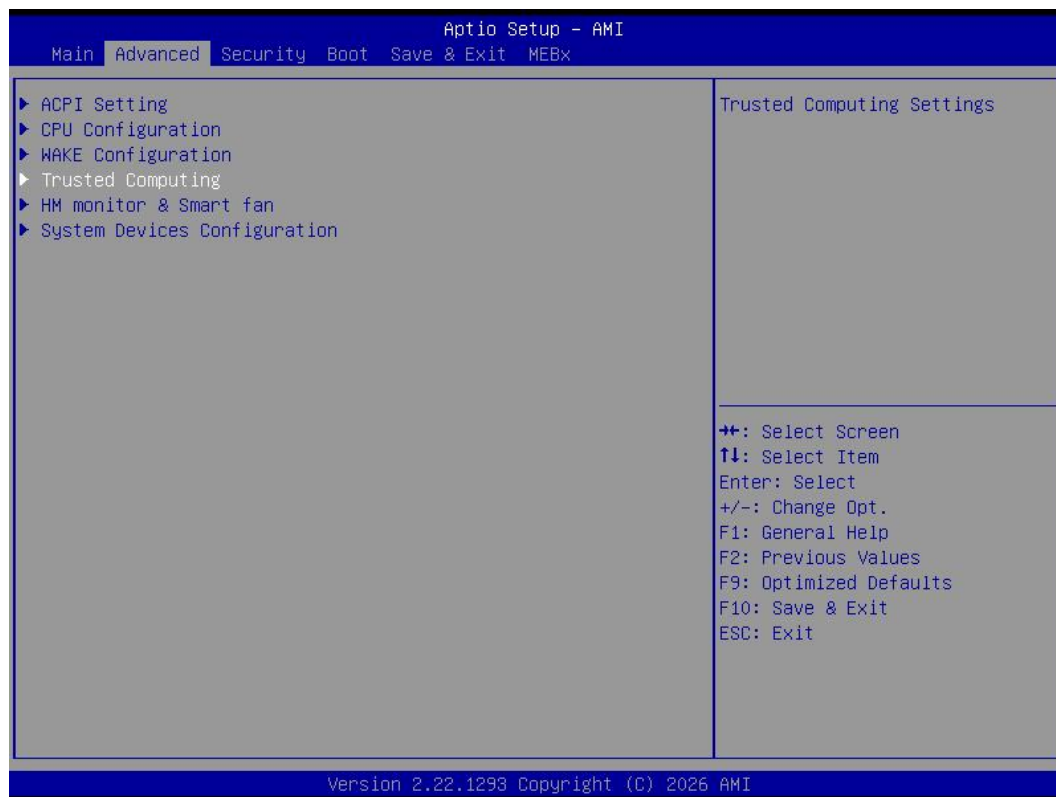
4.2.3 WAKE Configuration





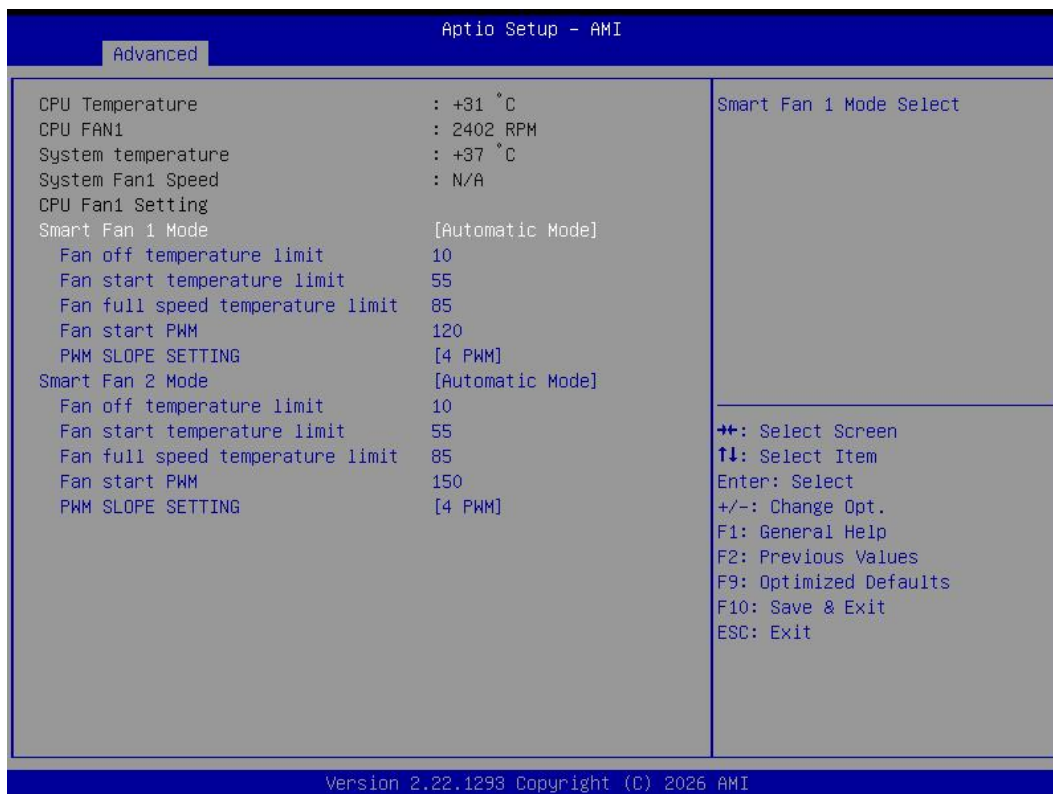
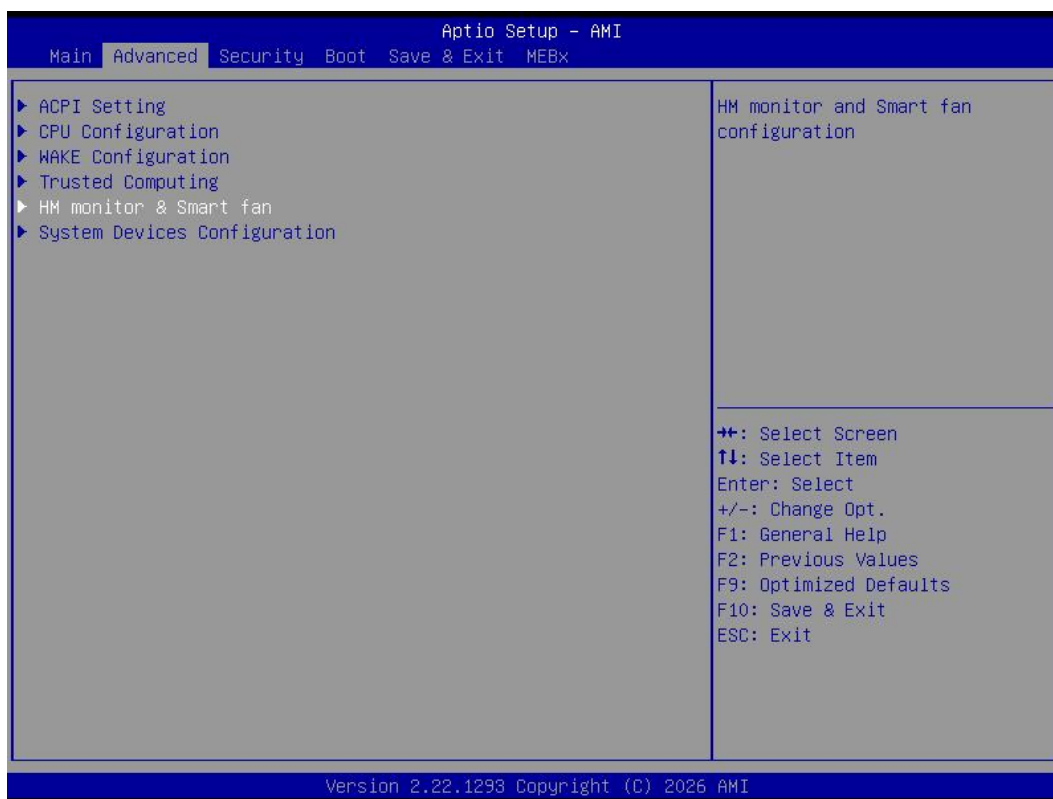
Menu	Description
Wake Configuration	
Wake Up On RLT LAN	● Disabled: ● Enabled: The Wake Up On LAN is enabled by default.
USBC and USBA Wake Capability	● USBC and USBA Wake Capability.
Wake system from S5	● Enable or disable system wake on alarm event. The system will wake on the hr::min::sec specified when Select FixedTime. The system will wake on the current time+Increase minute(s) when Select DynamicTime.

4.2.4 Trusted Computing



TPM20 Device Found	Description
Firmware Version	TPM FW version is 600.18
Vendor	The vendor is INTC
Security Device Support	- Disabled - Enabled. This item is enabled by default.
SHA256 PCR Bank	- Disabled. This item is Enabled by default - Enabled.
SHA384 PCR Bank	- Disabled This item is Disabled by default. - Enabled.
SM3_256 PCR Bank	- Disabled This item is Disabled by default. - Enabled.
Pending operation	It includes None and TPM Clear function.
Platform Hierarchy	Disable or Enable the Platform Hierarchy.
Storage Hierarchy	Disable or Enable the Storage Hierarchy.
Endorsement Hierarchy	Disable or Enable the Endorsement Hierarchy.
Physical Presence Spec Version	You can choose 1.2 or 1.3. The version is 1.3 by default.
TPM 20 Interface Type	TPM2.0 Interface Type is CRB(FTPM) by default.
Device Select	You can select TPM1.2 or TPM2.0 or Auto. Auto is set up by default.

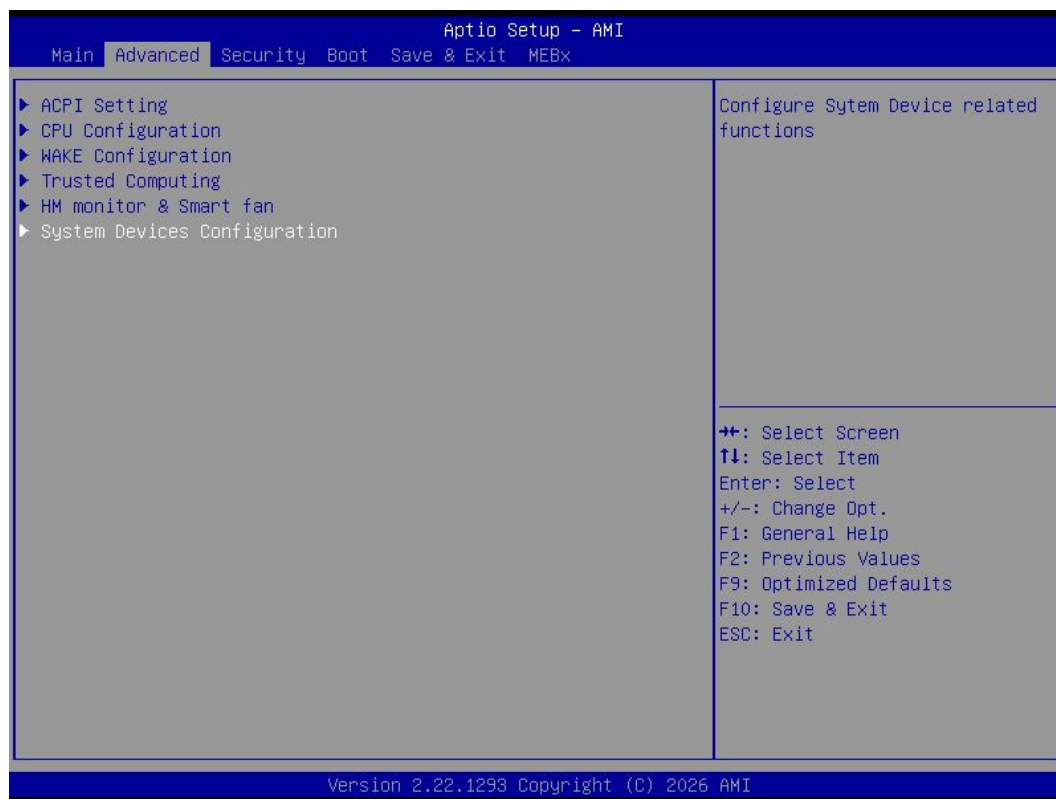
4.2.5 HM Monitor & Smart FAN

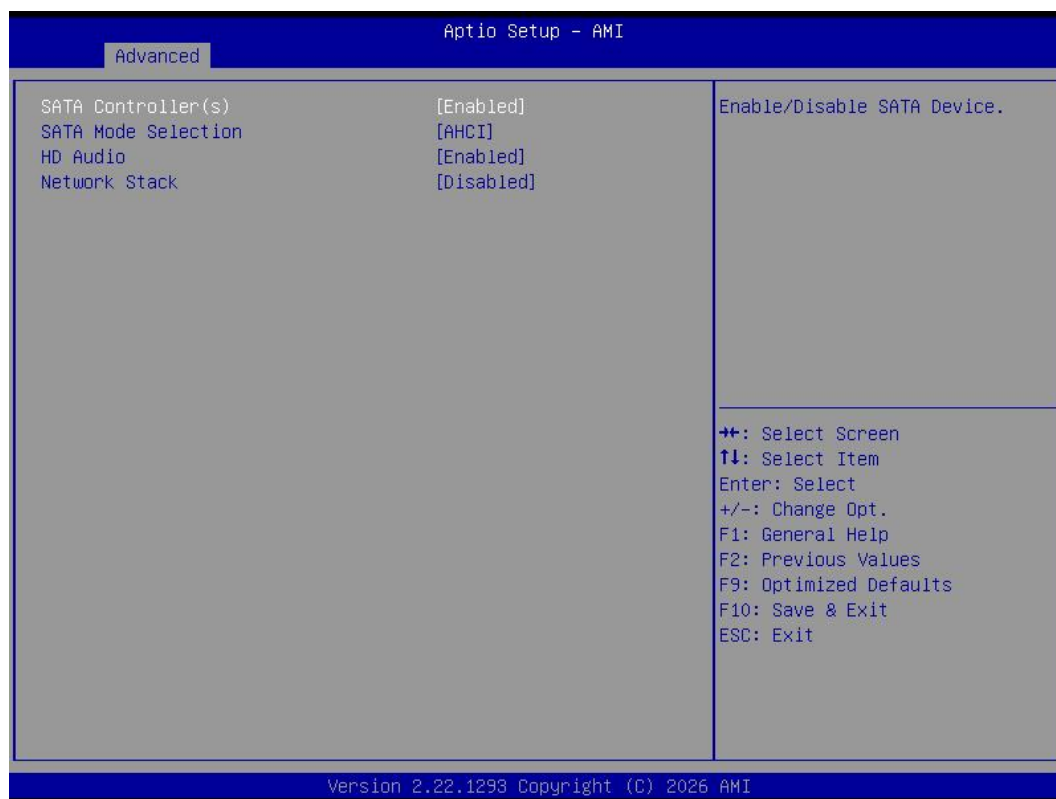


Menu	Description
Pc Hardware Monitor Status	
Smart Fan1 Mode	It includes "Software Mode" and "Automatic Mode". ● Software Mode. ● Automatic Mode: Automatic Mode is enabled by default.
Fan off temperature limit	FAN will stop work If temperature is lower than the Fan off temperature limit value.
Fan start temperature limit	If the temperature is higher than fan off temperature limit, FAN will start work.
Fan Full Speed Temp limit	If the temperature is higher than the FAN Full Speed temp limit value, the FAN will work at full speed.
Fan start PWM	If the temperature is higher than the FAN start PWM value, the FAN will start work.
PWM slope setting	● 0.125 PWM ● 0.25 PWM ● 0.5 PWM ● 1 PWM ● 2 PWM ● 4 PWM ● 8 PWM ● 15.875 PWM
Smart Fan2 Mode	It includes "Software Mode" and "Automatic Mode". ● Software Mode. ● Automatic Mode: Automatic Mode is enabled by default.
Fan off temperature limit	FAN will stop work If temperature is lower than the Fan off temperature limit value.
Fan start temperature limit	If the temperature is higher than fan off temperature limit, FAN will start work.
Fan Full Speed Temp limit	If the temperature is higher than the FAN Full Speed temp limit value, the FAN will work at full speed.
Fan start PWM	If the temperature is higher than the FAN start PWM value, the FAN will start work.
PWM slope setting	● 0.125 PWM

- 0.25 PWM
- 0.5 PWM
- 1 PWM
- 2 PWM
- 4 PWM
- 8 PWM
- 15.875 PWM

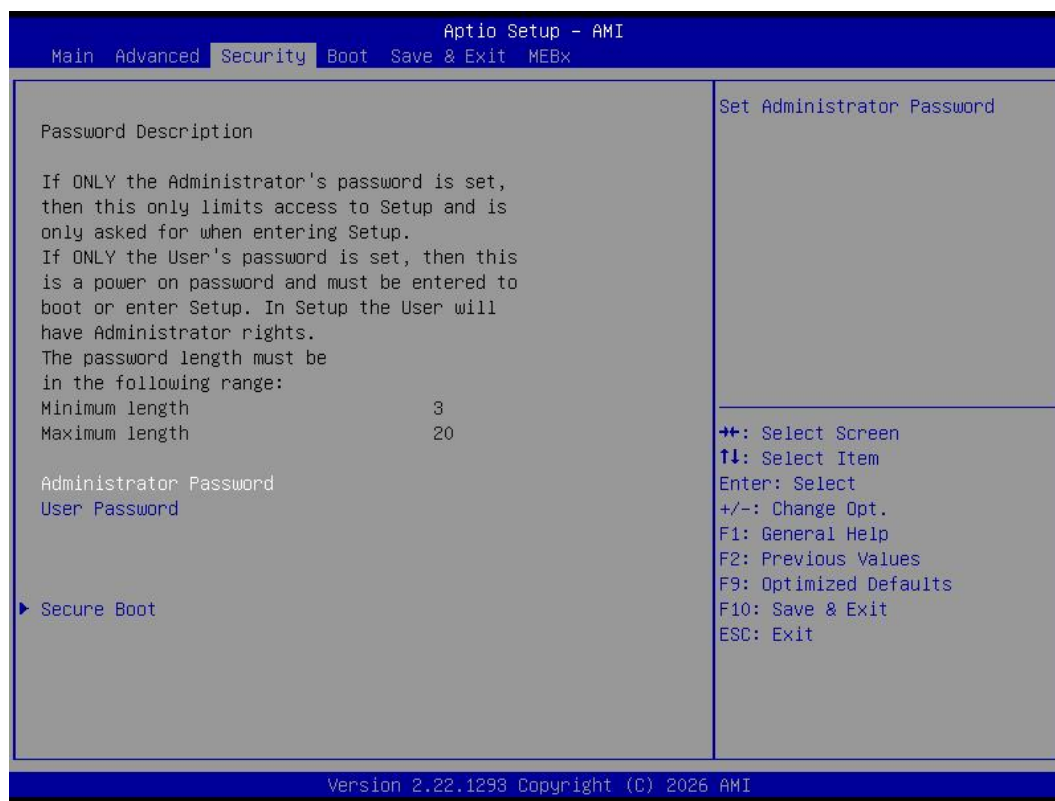
4.2.6 System Devices Configuration





Menu	Description
SATA Controller(s)	The SATA controller is enabled by default. ● Enabled ● Disabled.
SATA Mode Selection	● Determines how SATA controller(s) operate.
HD Audio	● Control Detection of the HD-Audio device. ● HAD will be unconditionally disabled when disabled. ● HAD will be unconditionally Enabled when Enabled.
Network Stack	The Network Stack is disabled by default. ● Enabled ● Disabled.

4.3 Security



If this function is selected, the following information will appear:

Enter New Password hhhhhh

Then enter a password which is no more than eight characters and press <Enter>. BIOS will require to enter the password again.

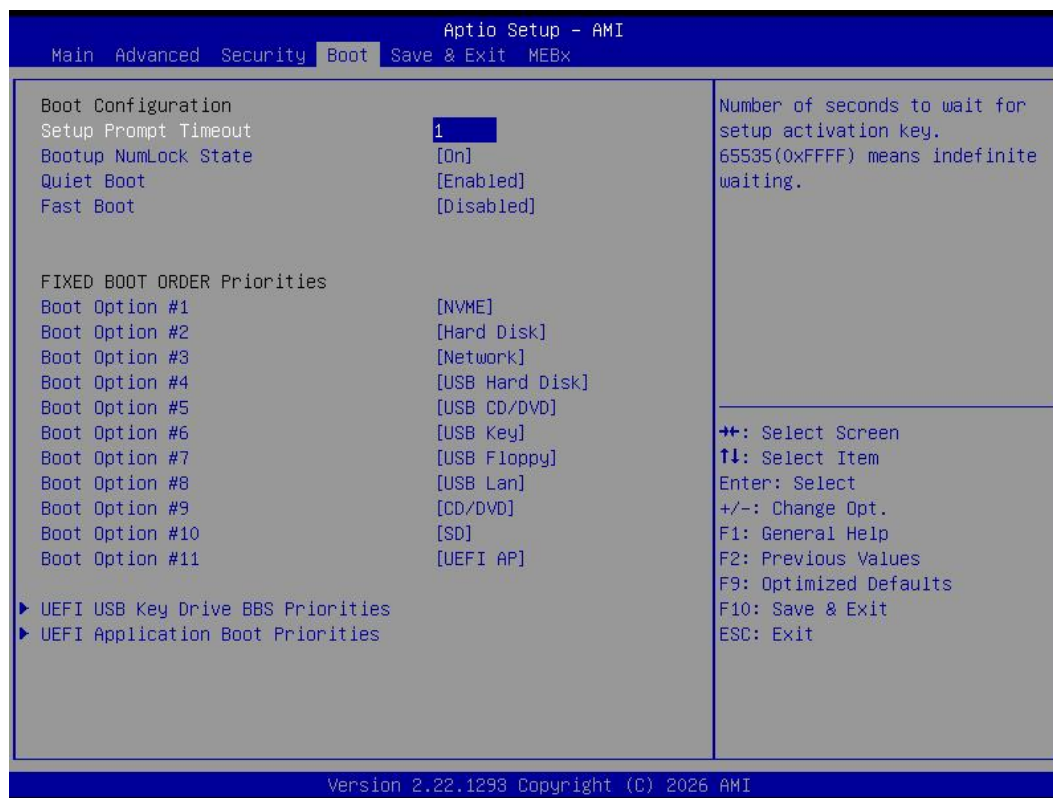
Once you enter it again, BIOS will save the set password. Once the password item is enabled, you will be required to enter the password every time before the system entering to the setup program of BIOS. The user can set this item through the Security Option in advanced BIOS properties. If the Security Option is set as System, the password will be required to be entered before both the system guides and entering to the setup program of BIOS. If it is set as Setup, the password will be required to be entered only before the system entering to the setup program of BIOS.

To delete the password, press <Enter> in the popped-up window that requires to enter the password. Then information for confirmation will appear on the screen to allow you decide whether the password will be disabled. Once the password is disabled, you can enter the setup program directly without password when the system is restarted.

Secure Boot. This item is used for setting the alarm function in case of virus attack in SSD disk sector. Secure boot feature is active if secure boot is enabled, Platform Key(PK) is enrolled and the system is in user mode. The mode change requires. If this item is set as Enable and some program writes information in the sector, BIOS will display alarm

information on the screen and buzz.

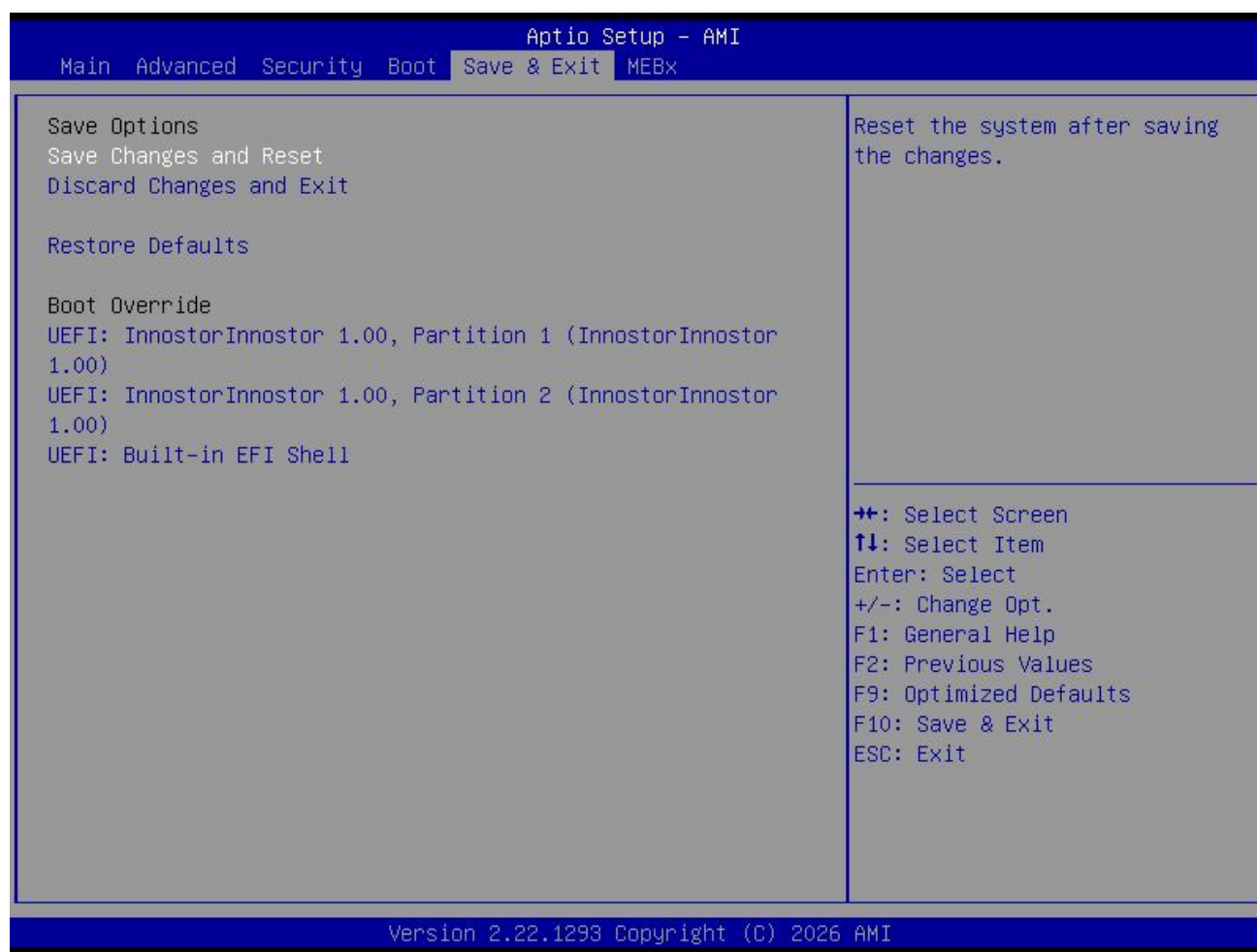
4.4. Boot Menu



Boot Menu	Description
Boot Configuration	
Setup Prompt Timeout	This item is use to set the wait time of entering the operation system. During the BIOS post, if user doesn't press the keyboard, it won't respond unless you reboot the BIOS. The Setup Prompt Timeout is 3s by default. You can set the time as you want.
Bootup NumLock State	Options are OFF and ON. In other words, this item can be used to set the state of Num Lock after entering the system. It can be set according to user's needs and doesn't affect the performance of the computer.
Quiet Boot	If this item is set as Enabled, the system can be started within five seconds and some detection items will be ignored. The options are [Disabled] and [Enabled].
FIXED BOOT ORDER Priorities	

Boot Menu	Description
Boot Option #1	The first boot device. If BIOS doesn't detect the first boot device, it will check the second boot device.
UEFI USB Drive BBS Priorities	Specifies the boot Device Priority sequence from available UEFI USB Application.
UEFI Application Boot Priorities	Specifies the boot Device Priority sequence from available UEFI Application.

4.5 Save&Exit



Save Exit Menu	Description
Save Menu	
Save Changes and Reset	Save all changes and exit
Discard Changes and Reset	Give up the settings and exit.

Save Exit Menu	Description
Restore Defaults	● Recover it to default.
Boot Override	● Whole Boot devices

5. JAHC Support Update

Important Notice: The JAHC function is not supported on the PC615.



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