G468 User Manual

Statement

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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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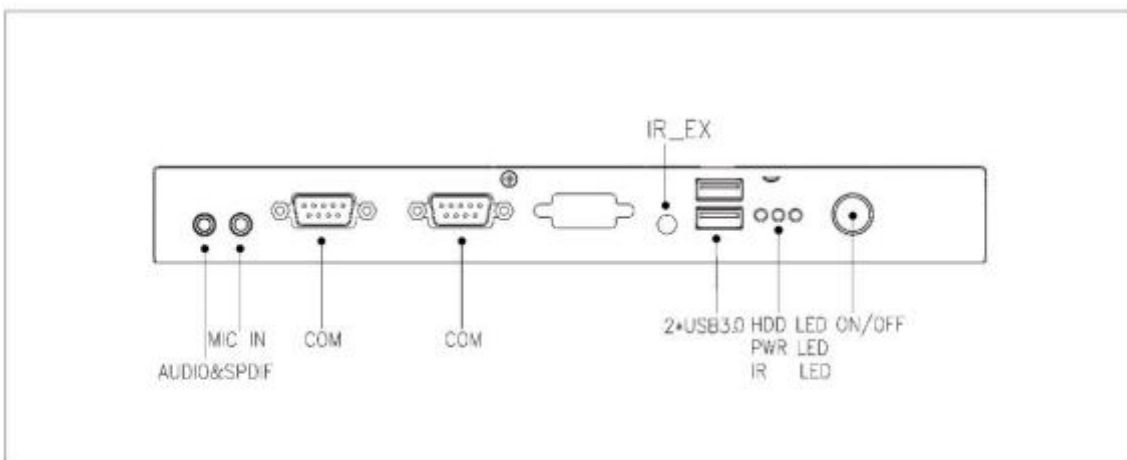
1. Product Introduction

Based on AMD Ryzen platform, Giada G468 adopts DDR4 dual-channel memory. With four HDMI 2.0 display outputs, it supports 4K resolution. The player is suitable to be applied in high-end digital signage applications such as video wall.
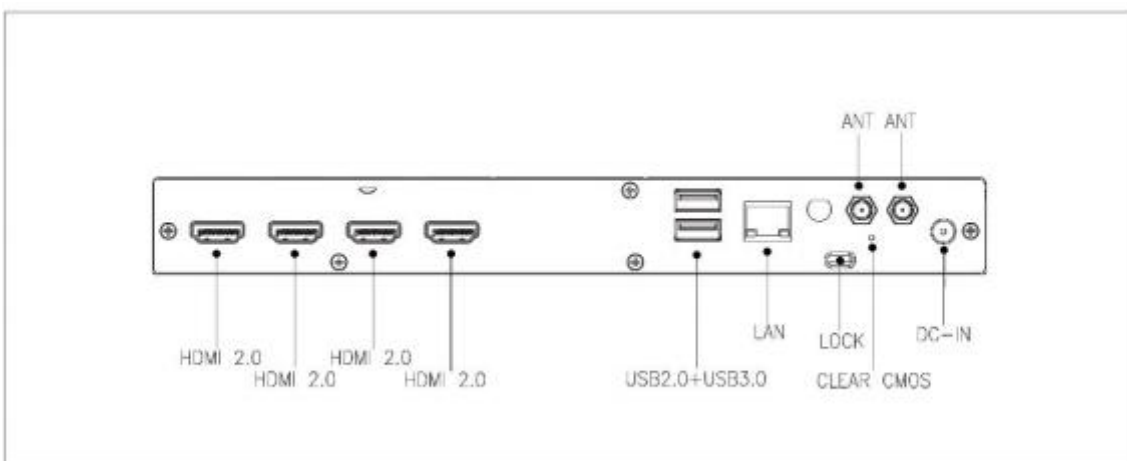
2. Interface Description and Hardware Specifications

2.1 Interface Description

Front I/O Port

Rear I/O Port

2.2 Hardware Specifications

G468		V1605B	V1807B
Processor	**CPU**	AMD Ryzen™ V1605B	AMD Ryzen™ V1807B
	Frequency	2.0GHz, 4 Cores / 8 Threads	3.35GHz, 4 Cores / 8 Threads
	BIOS	AMI Source Code	
	Chipset	SOC	
Memory	**Type**	DDR4	
	Socket	2 x SO-DIMM	
	Max Capacity	32 GB	
Graphics	**GPU**	Radeon™ GPU 1.1GHz	Radeon™ GPU 1.3GHz
	Graphic Engine	DirectX12, OpenGL4.4 and OpenCL 1.2	
	HDMI2.0	4 x HDMI 2.0 (Max. 4096 x 2304 @60Hz)	
Network	**Controller**	Realtek RTL8111H Gigabit Ethernet	
	Interface	1 x RJ45	
I/O Interface	**USB**	3 x USB 3.0, 1 x USB 2.0	
	Serial Port	2 x RS232	
	Audio	1 x MIC-IN, 1 x AUDIO-OUT&SPDIF	
	M.2 (2230)	1 x M.2 for WIFI/BT	
	M.2 (2242/2280)	1 x M.2 for SSD	
Storage	**M.2 (2242/2280)**	1 x M.2 for SSD	
	SATA	1 x 2.5" SATA	
JAHC	**JAHC**	Watchdog / Auto power on/IR Remote Control / RTC/Wake On Lan	
Operation System	**OS**	Windows 10（64-bit) / Linux	
Power	**Power Type**	DC-IN	
	Input Voltage	19V/4.74A	
Mechanical	**Construction**	Metal	
	Mounting	Desk/VESA Mounting（JZ300）	
	Dimension (W x D x H)	240mm x 175mm x 28mm	
	Color	Black	
Environment	**Operating Temperature**	0-40℃ at 0.7m/s Air Flow	
	Relative Humidity	95%@40℃ (non-condensing)	
Certification		CE, FCC Class B	

3. Accessories Installation Steps

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

How to open the top cover and bottom cover

Unscrew the two screws and remove the top cover. (M.2 for WIFI/BT and 2.5'' SATA slot are on top side)

Unscrew the only one screw, push the bottom cover, and remove it. (SO-DIMM#1, SO-DIMM#2 and M.2 for SSD slot are on bottom side)

3.1 Memory Installation

⚠ This product only supports DDR4 SO-DIMM memory modules.

1. Locate the SO-DIMM slots on the board.
2. Gently insert the module into the slot in a 45-degree angle.
3. Carefully push down the memory module until it snaps into the locking mechanism.

3.2 SSD (M.2) Installation

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

3.3 WiFi Installation

1. Plug the WIFI module into the mini PCIE slot.
2. Secure the module to the carrier by tightening up the screw.
3. Connect the black cables to **Main** and **AUX**. Install the antennas.

3.4 2.5" SATA Installation

1. Unscrew the two screws from the carrier.
2. Tighten up the two screws on the back side of 2.5" SATA disk.
3. Plug 2.5" SATA disk into the slot and tighten up the two screws on front side to fix it.

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 occurs. If the indicative information disappears before operating, you can shut down the computer and turn it on again, or you can press the RESET key on the product housing. To restart your computer, you can also press < Ctrl > + < Alt > + < Delete > simultaneously.

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
Page Up	Change the setup state, or add the values
Page Down	Change the setup state, or deduct the values
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.

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              Aptio Setup Utility - Copyright (C) 2020 American Megatrends, Inc.
      Main  Advanced  Security  Boot  Save & Exit

      BIOS Information                                        Choose the system default
      BIOS Vendor                  American Megatrends        language
      BIOS Version                 S62V0A0A
      Core Version                 5.13
      Compliancy                   UEFI 2.7; PI 1.6
      Project Version              0ACKF 0.09 x64
      Build Date and Time          03/16/2020 18:20:18
      Access Level                 Administrator

      CPU Information
      AMD Ryzen Embedded V1807B with Radeon Vega Gfx  @ 3.40 GHz

      Memory Information
      Total Memory                 Total Memory: 4096 MB
                                   (DDR4)                    ++: Select Screen
                                                             ↑↓: Select Item
      System Language              [English]                 Enter: Select
                                                             +/-: Change Opt.
      System Date                  [Sat 03/14/2020]          F1: General Help
      System Time                  [14:31:06]                F2: Previous Values
                                                             F9: Optimized Defaults
                                                             F10: Save & Exit
                                                             ESC: Exit

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(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.
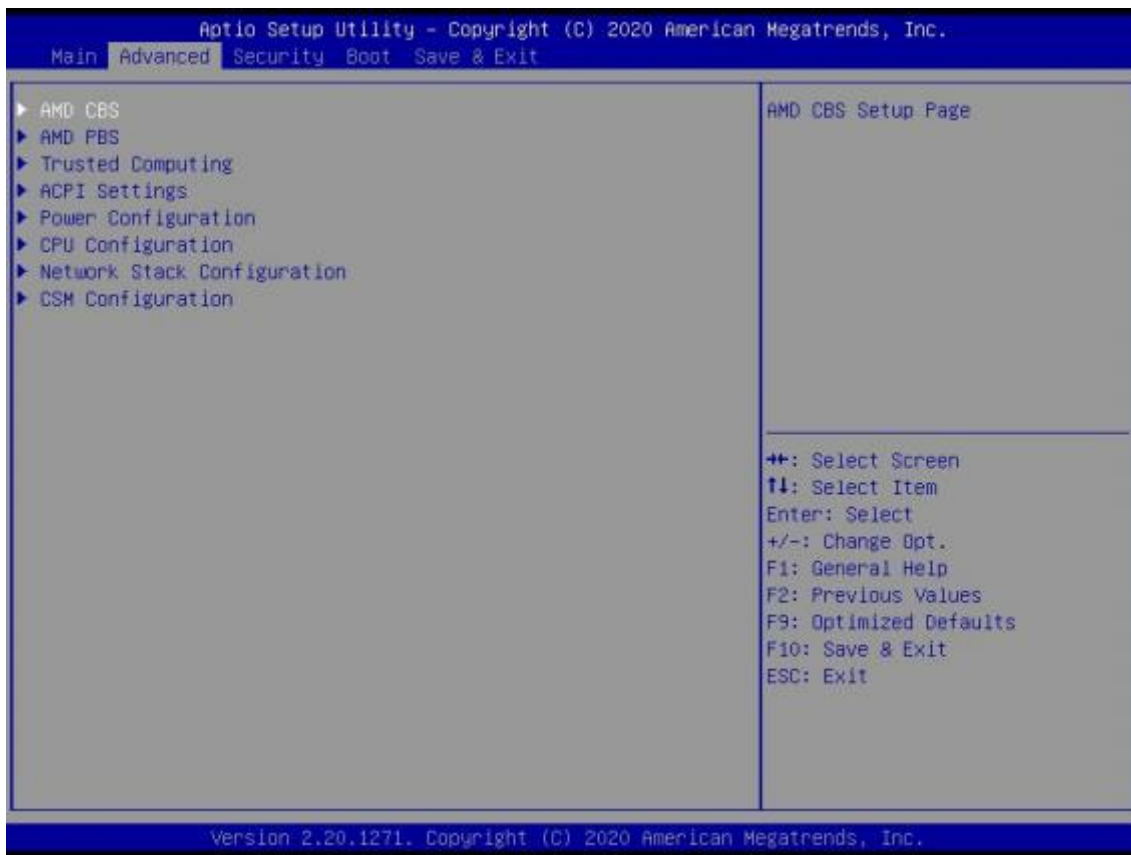
3) Security (set the administrator/user password)

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 Setup)

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".
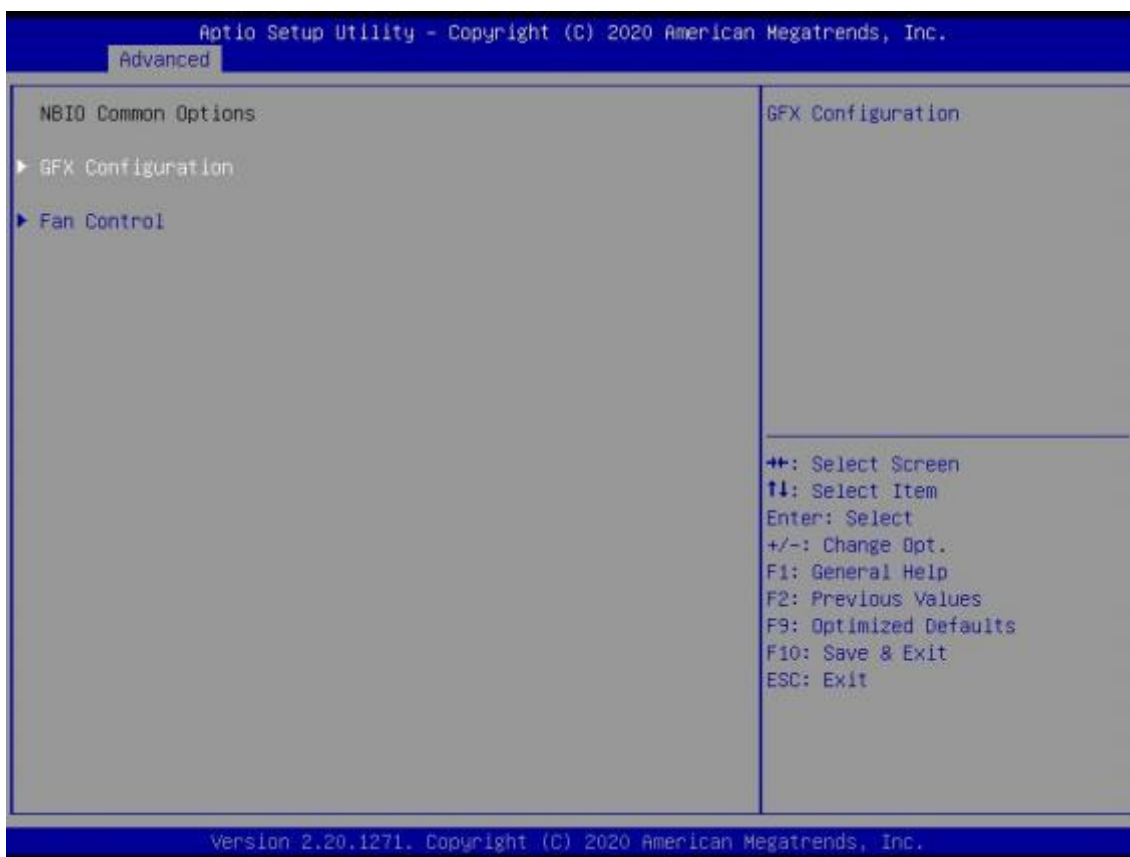
4.2 Advanced (Advanced BIOS Setup)

4.2.1 AMD CBS Settings

Options	Description
AMD CBS	
NBIO Common Options	NBIO Common Options
FCH Common Options	FCH Common Options

4.2.2 NBIO Common Options

Options	Description
NBIO Common Options	
GFX Configuration	The user can set this item as enable, forces and Auto.
Fan Control	● AUTO: Use default fan controller settings ● Manual. The user can set customized fan controller settings.

4.2.2.1 GFX Configuration

```
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     Advanced

 GFX Configuration                                      Enable Integrated Graphics
                                                        controller
 Integrated Graphics Controller      [Auto]
 NB Azalia                            [Auto]






                                                        ++: Select Screen
                                                        ↑↓: Select Item
                                                        Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F2: Previous Values
                                                        F9: Optimized Defaults
                                                        F10: Save & Exit
                                                        ESC: Exit



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Options	Description
GFX Configuration	
Integrated Graphics Controller	Enabled Integrate Graphics controller. ● Disabled. ● Forces. ● Auto.
NB Azalia	Enabled Integrate HD Audio controller. ● Disabled. ● Forces. ● Auto. This option is set by default.

4.2.2.2 Fan Control

Fan Control	Description
Fan Control	● Manual. ● Auto. Fan Control is auto by default.
Low Temperature	● Low Temperature
Medium Temperature	● Medium Temperature
High Temperature	● High Temperature
Critical Temperature	● Critical Temperature
Low PWM	● Low PWM(0-100)
Medium PWM	● Medium PWM(0-100)
High PWM	● High PWM(0-100)
Temperature Hysteresis	● Temperature Hysteresis
PWM Frequency	● 100HZ ● 25KHZ.This item is 25KHZ by default.

Fan Control	Description
Fan Polarity	• Negative • Positive. The Fan Polarity value is positive by default.

4.2.3 FCH Common Options

| FCH Common Options	Description
SATA Configuration Options	
SATA Controller	SATA Controller. • Disabled. • Enabled: The SATA controller is enabled by default.
Ac Power Loss Options	
Ac Loss Control	Specify what state to go to when power is re-applied after a power failure. • Always Off: If set it as Always Off, it means the system will remain shutdown state • Power On: If set it as Power On State, it means the system will be power on automatically. • Previous: If set it as previous, it means the system will keep State

| FCH Common Options	Description
	of last setup.
Uart Configuration Options	
Uart 0 Enable	● Disabled. ● Enabled. This item is enabled by default.
Uart 0 Legacy Options	● Disabled. ● COM1 0x3F8.This item is COM1 0X3F8 by default. ● COM2 0x2F8. ● COM3 0x3E8. ● COM4 0x2E8.
Uart 1 Enable	● Disabled. ● Enabled. This item is enabled by default.
Uart 1 Legacy Options	● Disabled. ● COM1 0x3F8. ● COM2 0x2F8. ● COM3 0x3E8 ● COM4 0x2E8

4.2.4 AMD PBS Settings

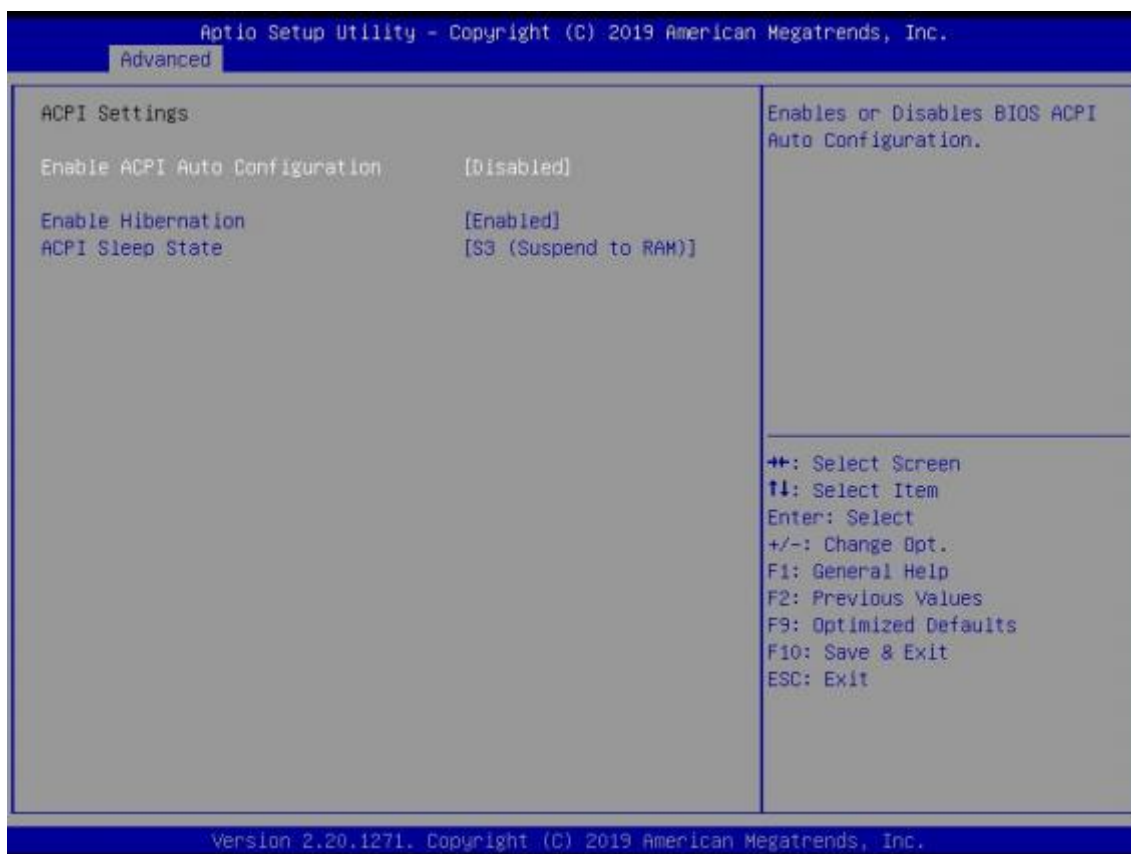| AMD PBS Options	Description
AMD Firmware Version	
Primary Video Adapter	• Int Graphics (IGD).This item is enabled by default. Select IGD used by the internal graphics device. • Ext Graphics (PEG). Select PEG used by the extend graphics device.
SATA/ M.2 selection	• SATA. • SATA M.2 x1. This item is enabled by default. • Pcie M.2 x2

4.2.4.1 AMD Firmware Version
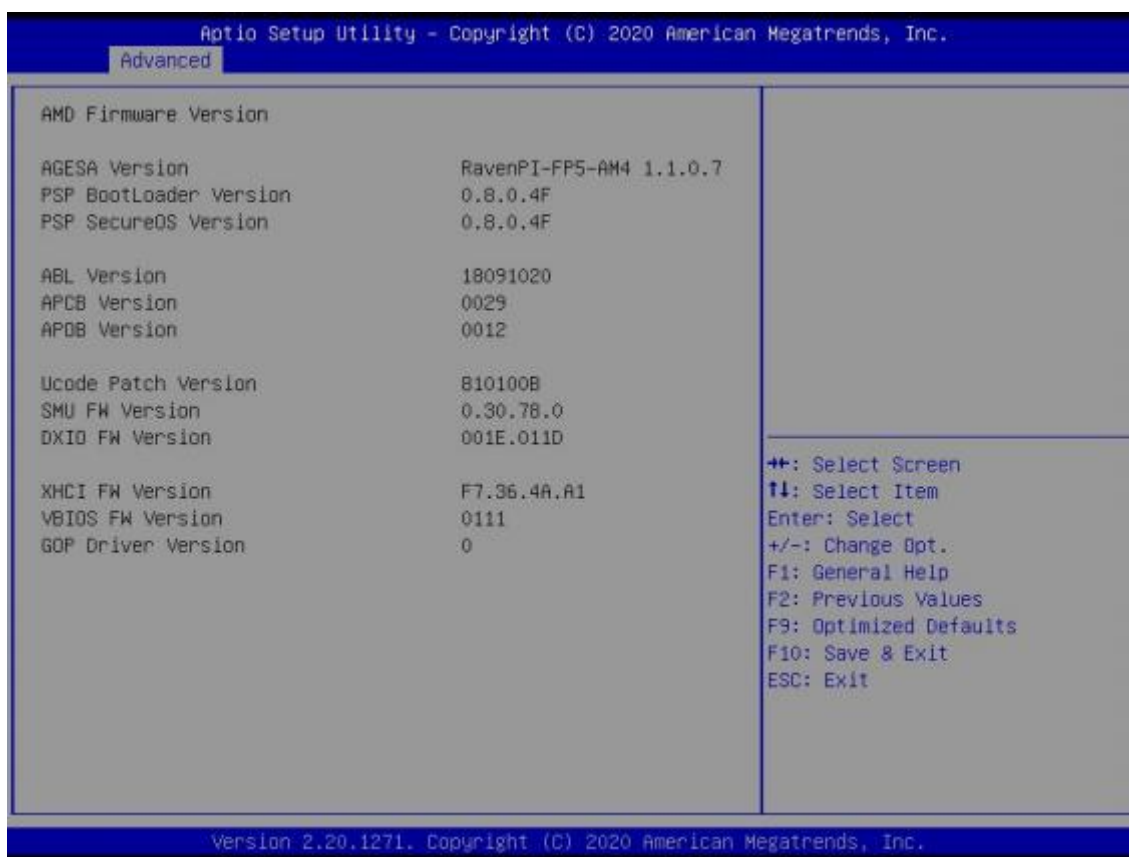
4.2.4.2 Trusted Computing
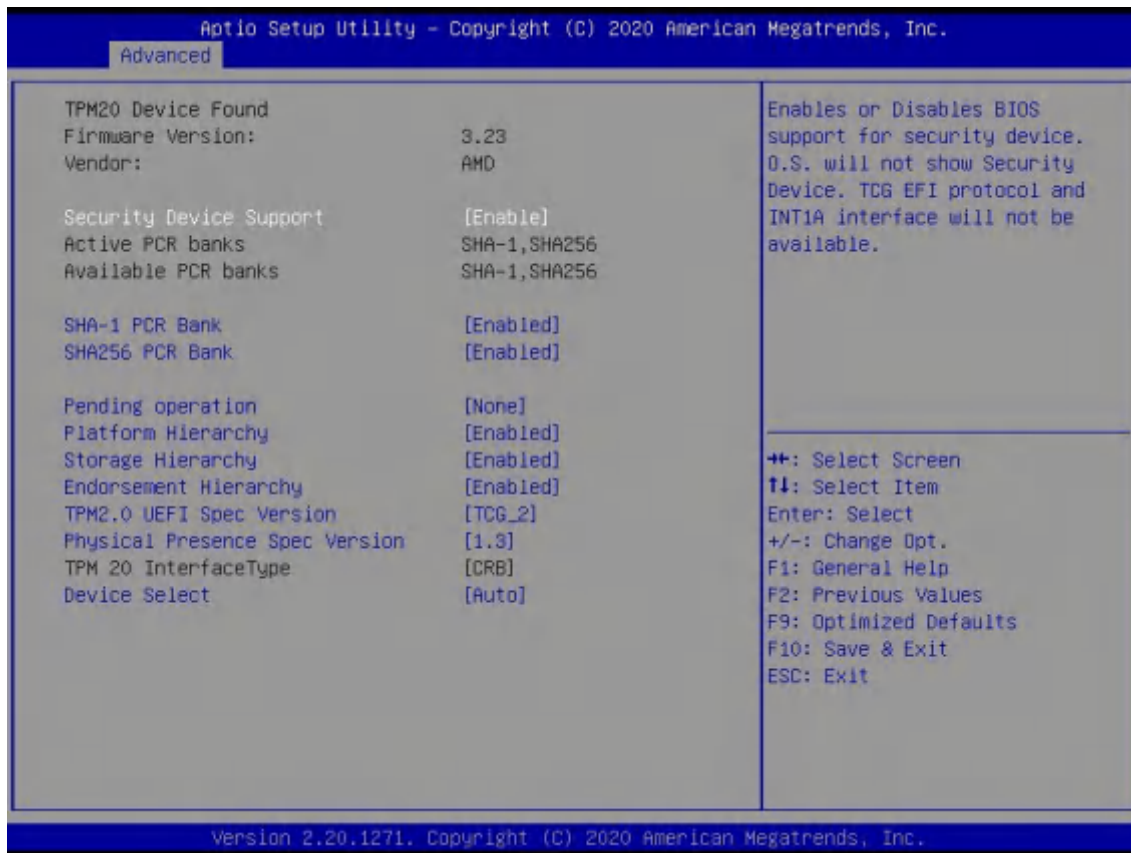
TPM20 Device Found	Description
Firmware Version	● TPM FW version is 3.23
Vendor	● The vendor is AMD
Security Device Support	● Disabled ● Enabled. This item is enabled by default.
Active PCR banks	● Active PCR banks ● SHA-1,SHA256
SHA-1 PCR Bank	● Disabled ● Enabled. This item is enabled by default.
Pending 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.

TPM20 Device Found	Description
TPM2.0 UEFI spec version	● TPM2.0 UEFI Options, TCG_1_2 or TCG_2. The version is TCG_2 by default.
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 TIS by default.
Device Select	● You can select TPM1.2 or TPM2.0 or Auto. Auto is set up by default.

4.2.4.3 ACPI Settings

ACPI Options	Description
Enable ACPI Auto Configuration	Enable or Disable BIOS ACPI AUTO Configuration
Enable Hibernation	Enable or Disabled Hibernation
ACPI Sleep state	You can use the ACPI Sleep state option to control system hibernation ● Suspend Disabled: Disable system Suspend. ● S3 (Suspend to RAM): Enable S3(Suspend to RAM)

4.2.5 Power Configuration

```
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  Advanced

 Power Configuration                                    Enabled/Disabled Resume On Lan

 Resume On Lan                   [Disabled]
 Wake system by RTC              [Disabled]
 JAHC Enable                     [Disabled]




                                                        ++: Select Screen
                                                        ↑↓: Select Item
                                                        Enter: Select
                                                        +/-: Change Opt.
                                                        F1: General Help
                                                        F2: Previous Values
                                                        F9: Optimized Defaults
                                                        F10: Save & Exit
                                                        ESC: Exit



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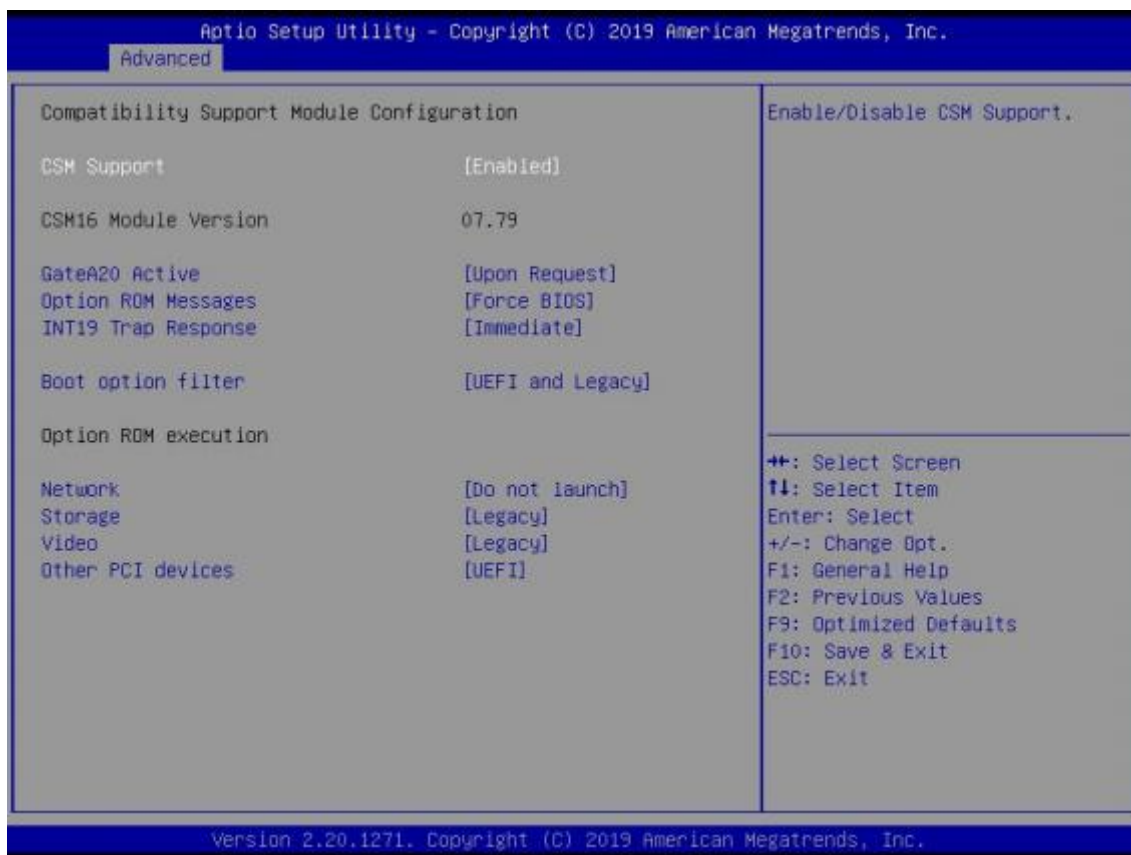| Power Configuration	Functions Description
Resume On Lan	Wake On LAN Function. ● Disabled: The WOL is disabled by default. ● Enabled.
Wake system by RTC	Enable or disable System wake on alarm event. Select FixedTime, system will wake on the hr::min::sec specified. Select DynamicTime, System will wake on the current time + Increase minute(s).
JAHC Enabled	JEHE Active Hardware Control (JAHC) management system includes both hardware Micro Control Unit (MCU) and software (JAHC Technology Manager). ● Disabled: The JAHC is disable by default. ● Enabled.

4.2.6 CPU Configuration

The menu	Description
CPU Configuration	
Module Version	● Module version.
AGESA Version	● AGESA Version
PSS Support	● Enable/Disable the generation of APCI _PPC,_PSS and _PCT Objects
PPC Adjustment	The PPC Adjustment is PState by default. ● PState 0.The ppc adjustment is PState 0 by default. ● PState 1. ● PState 2..
NX Mode	Enable/disable No-execute page protection Function
SVM Mode	Enabled/disable CPU virtualization
Node 0 information	View Memory Information related to node 0.

4.2.7 Network State Configuration

| OEM Menu	Functions Description
UEFI Configuration	
PXE Function	Enabled/Disabled UEFI Stack.. ● Disabled: The PXE function is disable by default. ● Enabled.
Ipv4 PXE Support	Enabled/Disabled IPV4 PXE boot support. ● Enabled. ● Disabled. This item is disabled by default.
Ipv4 HTTP Support	Enabled/Disabled IPV4 PXE boot support. ● Enabled. ● Disabled. This item is disabled by default.
Ipv6 PXE Support	Enabled/Disabled IPV6 PXE boot support. ● Enabled. ● Disabled. This item is disabled by default.
Ipv6 HTTP Support	Enabled/Disabled IPV6 HTTP boot support. ● Enabled. ● Disabled. This item is disabled by default.
IPSEC Certificate	Support to enabled/disabled IPSEC certificate for Ikev ● Disabled. ● Enabled. This item is enabled by default.
PXE boot wait time	● Wait time in seconds to press ESC key to abort the PXE boot. Use either +/- or numeric keys to set the value.
Media detect count	● Number of times the presence of media will be checked. Use either +/- or numeric keys to set the value.

4.2.8 CSM Configuration

CSM Options	Description
Compatibility Support Module Configuration	
CSM Support	● Enabled: The CSM support function is enable by default. ● Disabled.
CSM16 Module Version	The Current CMS Version.
GateA20 Active	● Upon Request. (This option is set by default) ● Always.
Option ROM Messages	● Force BIOS. (This option is set by default) ● Keep Current.
INT19 Trap Response	● Immediate (This option is set by default) ● Postponed.

Boot option filter	● UFEI and Legacy: It will support both UEFI and legacy mode. ● Legacy only: It only supports legacy mode. ● UEFI only: It only supports UEFI mode.
Option ROM Execution	
Network	Network ROM Boot. ● Do not launch: Do not Boot. ● UEFI: It will support UEFI mode network ROM. ● Legacy: It will support legacy mode network ROM.
Storage	Storage ROM Boot. ● Do not launch: Do not Boot. ● UEFI: It will support UEFI mode storage ROM. ● Legacy: It will support legacy mode storage ROM.
Video	Video ROM Boot. ● UEFI: It will support UEFI mode Video ROM. ● Legacy: It will support Legacy mode Video ROM.
Other PCI devices	● Do not launch: Do not Boot. ● UEFI: It will support UEFI mode PCI ROM. ● Legacy: It will support Legacy mode PCI ROM.

4.3 Security Setup (set the administrator/user password)
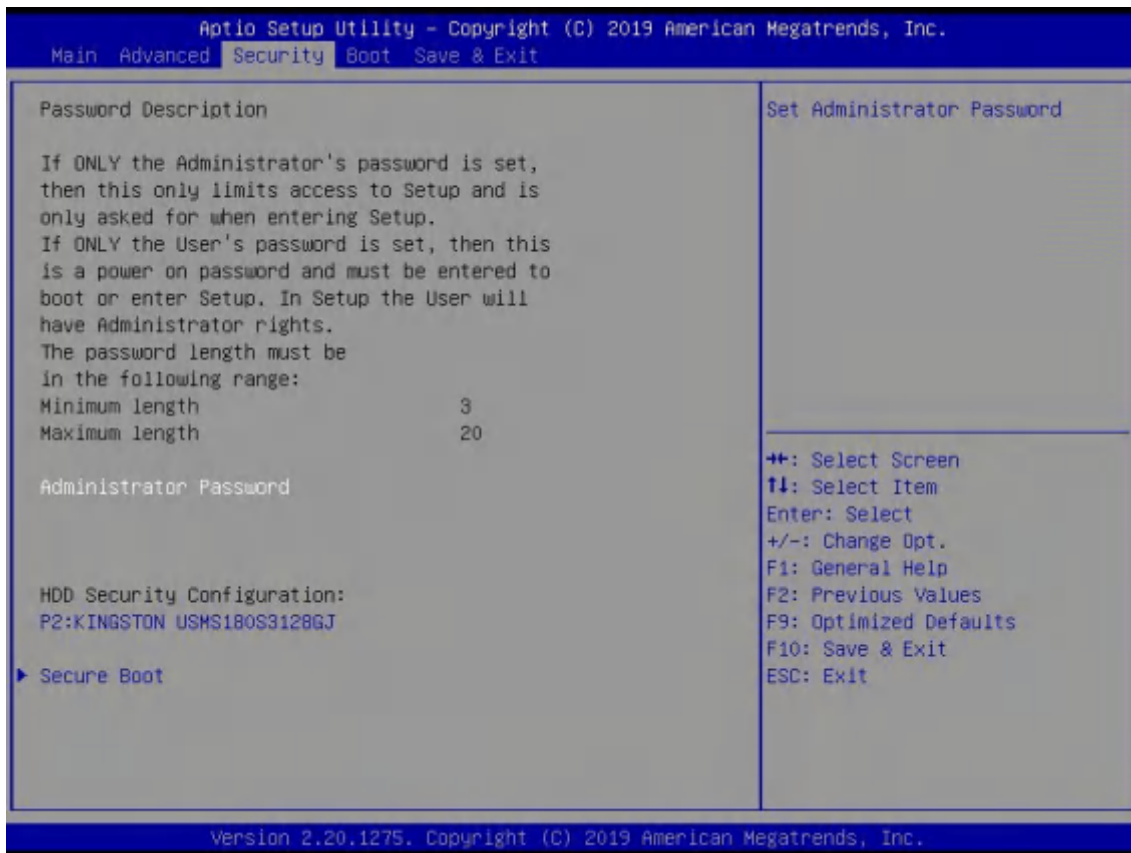
If this function is selected, the following information will appear:
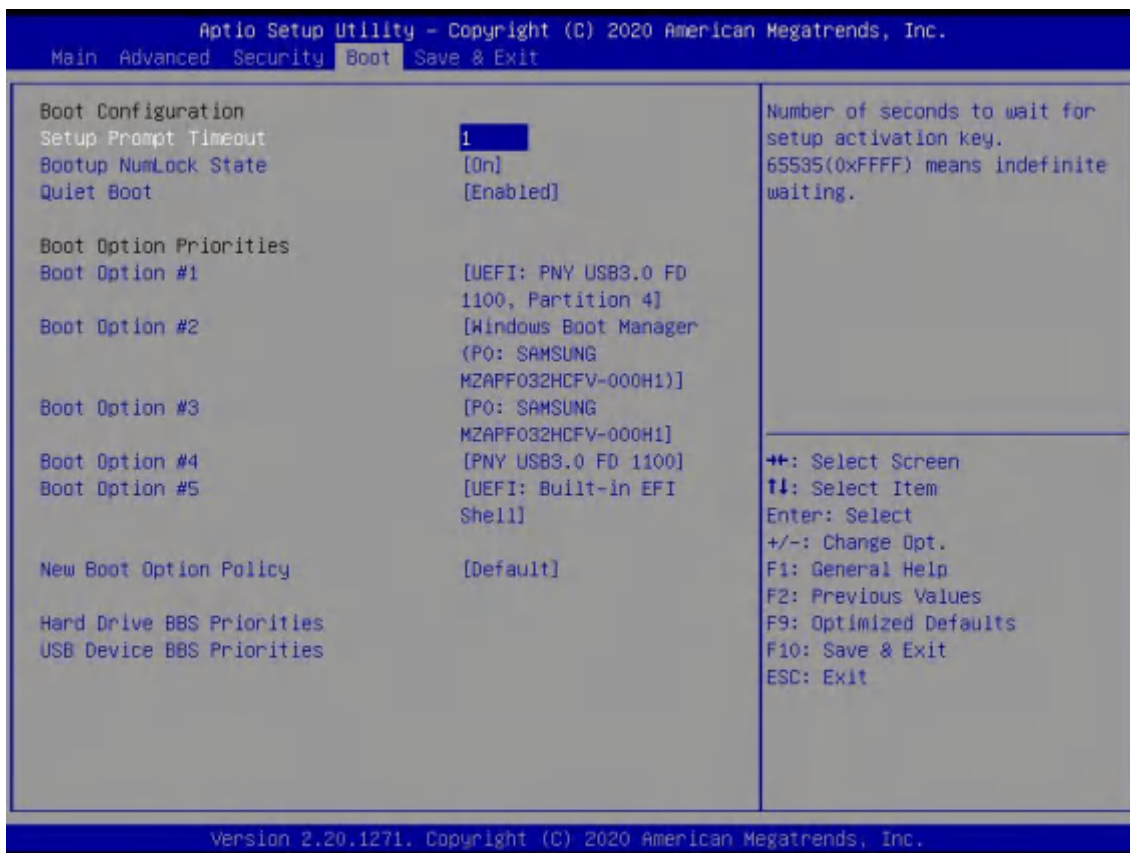
Enter New Password hhhhhh

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.

Boot Sector Virus Protection. This item is used for setting the alarm function in case of virus attack in IDE disk sector. 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.
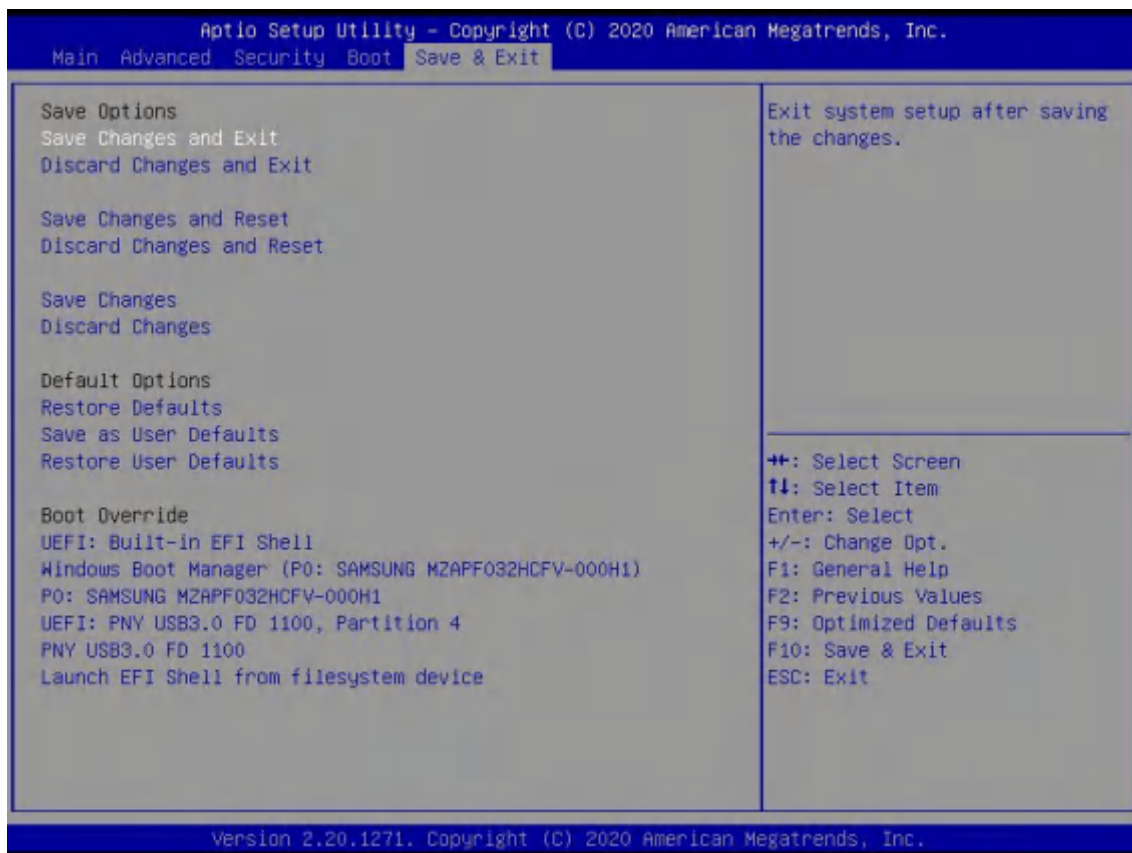
4.4. Boot Menu

Boot Item	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].
BOOT Option Priorities	
Boot Option #1	The first boot device. If BIOS doesn't detect the first boot device, it will check the second boot device.

Boot Item	Description
New Boot Option Policy	Control the placement of newly detected UEFI boot options
USB Drive BBS Priorities	You can set and manage legacy USB device after enabling this option.

4.5 Save & Exit

```
Aptio Setup Utility - Copyright (C) 2020 American Megatrends, Inc.
  Main  Advanced  Security  Boot  Save & Exit

Save Options                                    Exit system setup after saving
Save Changes and Exit                           the changes.
Discard Changes and Exit

Save Changes and Reset
Discard Changes and Reset

Save Changes
Discard Changes

Default Options
Restore Defaults
Save as User Defaults
Restore User Defaults
                                               →←: Select Screen
Boot Override                                  ↑↓: Select Item
UEFI: Built-in EFI Shell                       Enter: Select
Windows Boot Manager (P0: SAMSUNG MZAPF032HCFV-000H1)  +/-: Change Opt.
P0: SAMSUNG MZAPF032HCFV-000H1                  F1: General Help
UEFI: PNY USB3.0 FD 1100, Partition 4          F2: Previous Values
PNY USB3.0 FD 1100                             F9: Optimized Defaults
Launch EFI Shell from filesystem device        F10: Save & Exit
                                               ESC: Exit

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Save Exit Item	Description
Save Options	
Save Changes and Reset	Save all changes and exit
Discard Changes and Reset	Give up the settings and exit.
Restore Defaults	Recover it to default.
Boot Override	Whole Boot devices

5. JAHC Introduction

JEHE Active Hardware Control (JAHC) management system includes both hardware Micro Control Unit (MCU) and software (JAHC Technology Manager). It can support following functions:

1. Automatically boot up when power on. It is controlled by the Micro Control Unit (MCU) chip.
2. Real Timer Controller (RTC) wake up: user can install the JAHC software to set up automatic startup and shutdown, one week as a circle.
3. Watchdog timer. It is a built-in API interface.
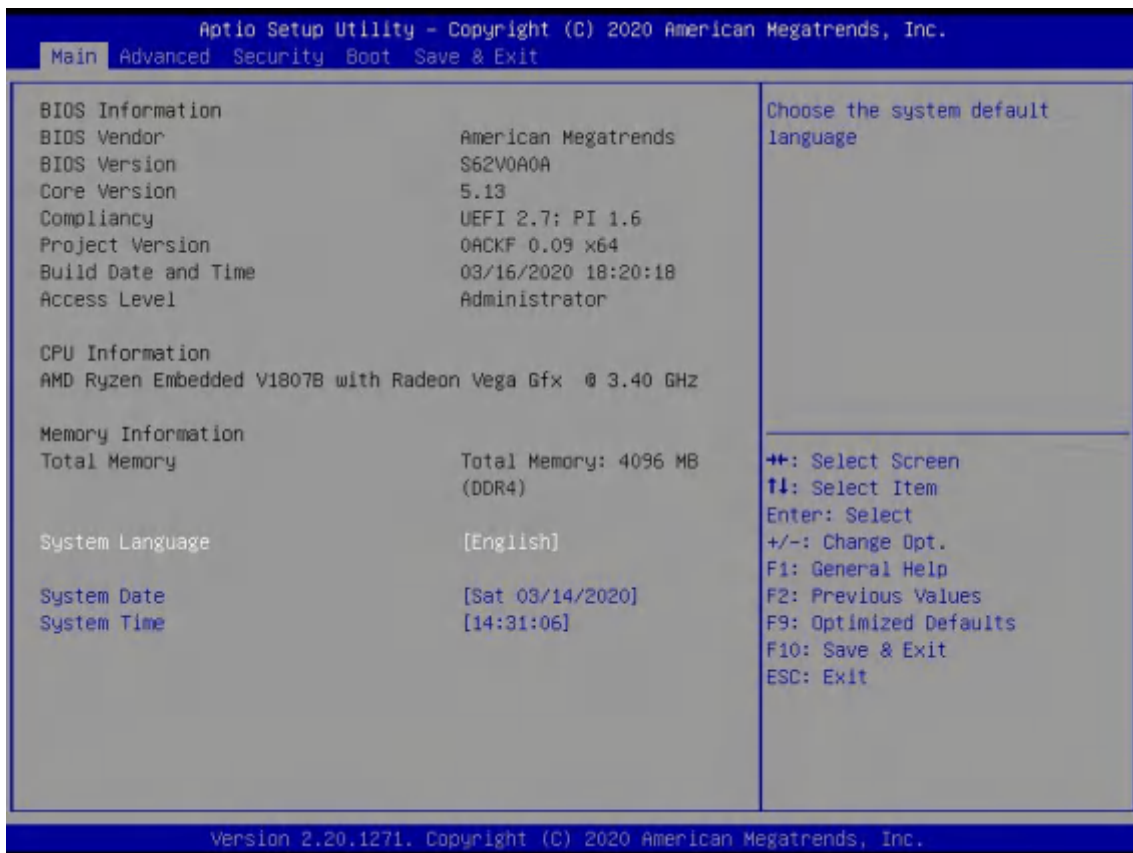4. Infrared remote control (Optional IR controller).

5.1 How to set up Auto power on function

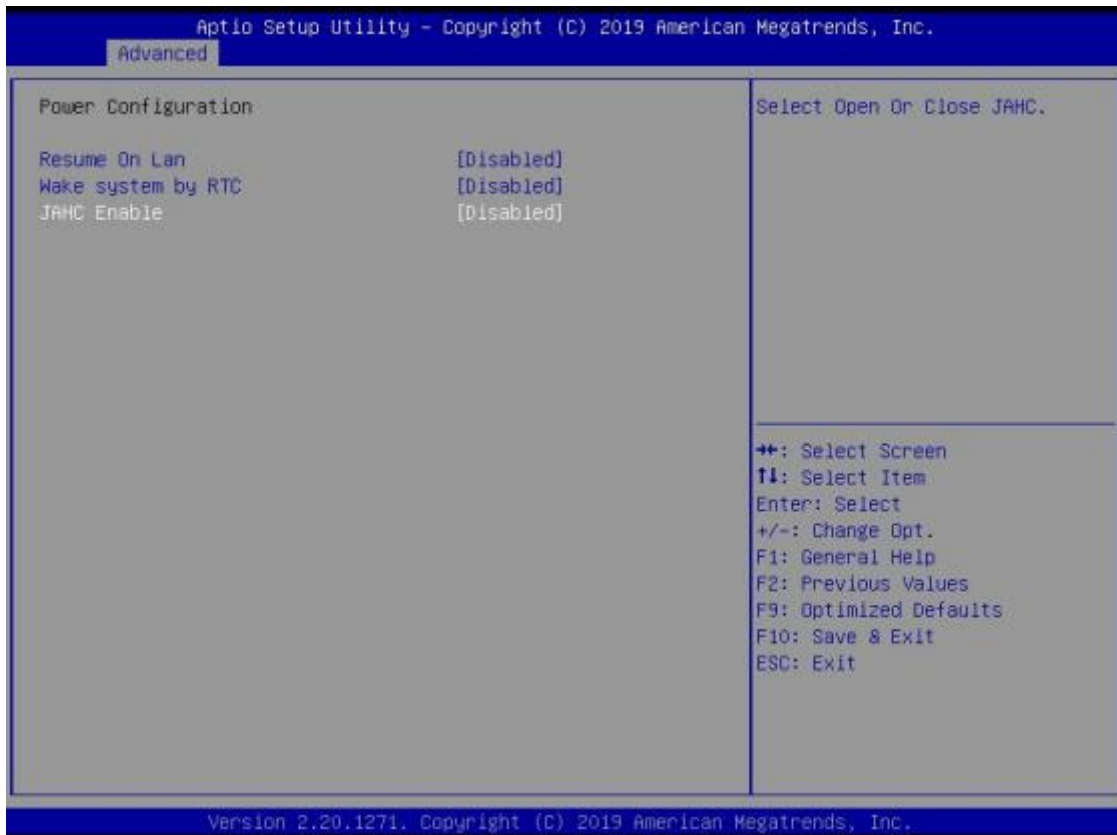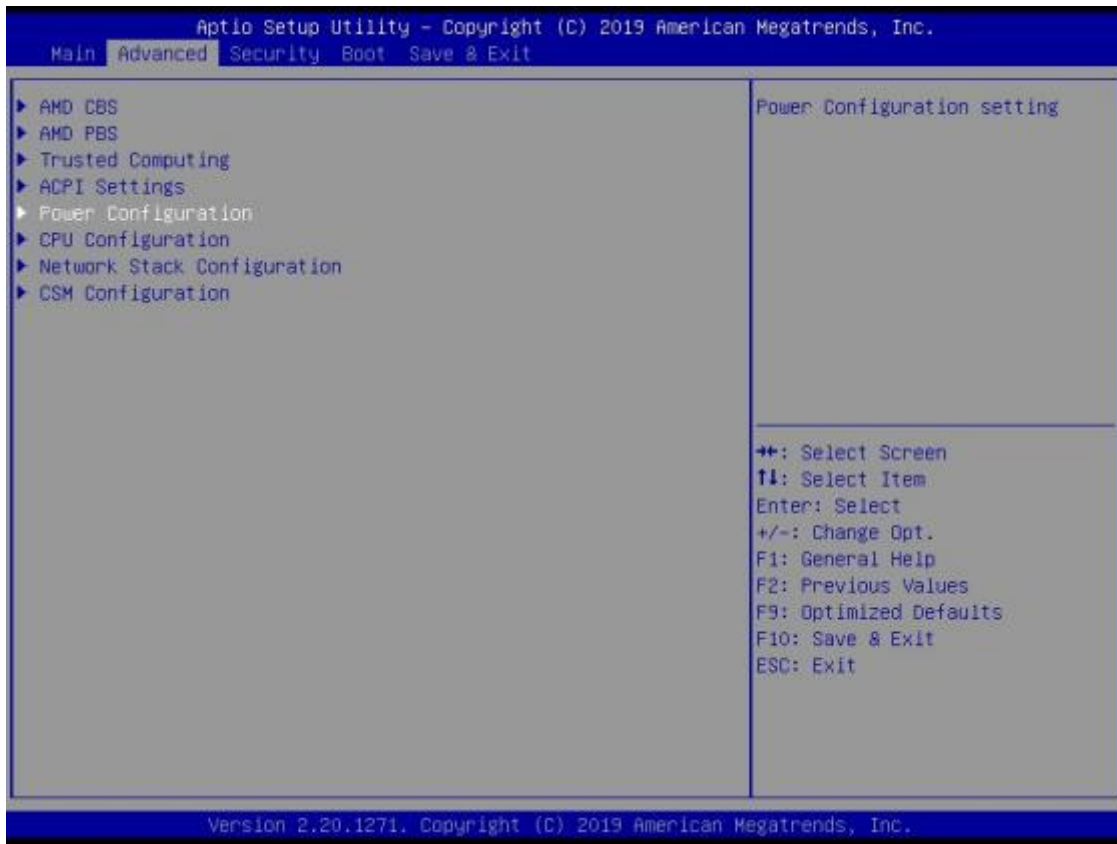## Automatically reboot when power on

The function of automatically reboot when power on is controlled by hardware. You can enable it by switching the JAHC button to "on".
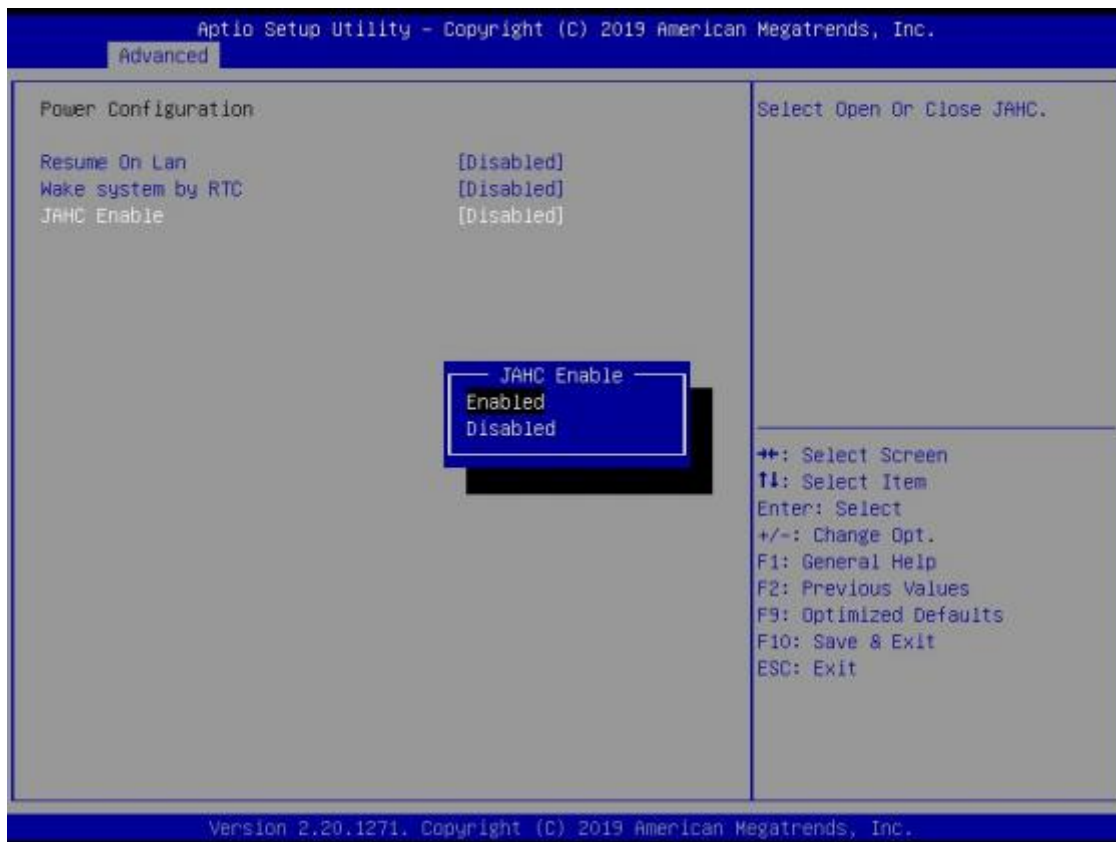If you cannot find the physical switch on the player, then you can go into the BIOS to enable it by following steps:

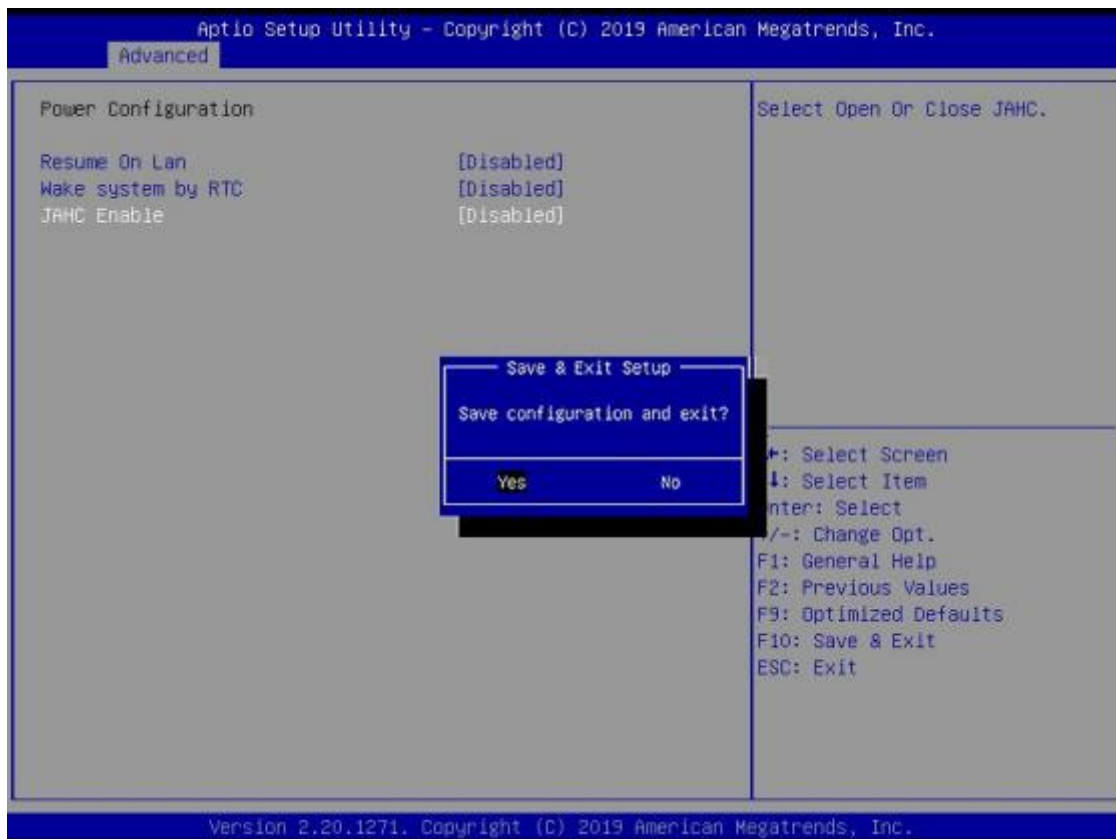a. Turn on the player and continually press 'Del', then it can enter BIOS setup menu.

b. Select Advanced->Power Configuration->JAHC Enable- > Enabled.

```
             Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
      Main  Advanced  Security  Boot  Save & Exit

    ▶ AMD CBS                                              Power Configuration setting
    ▶ AMD PBS
    ▶ Trusted Computing
    ▶ ACPI Settings
    ▶ Power Configuration
    ▶ CPU Configuration
    ▶ Network Stack Configuration
    ▶ CSM Configuration

                                                           ↔: Select Screen
                                                           ↑↓: Select Item
                                                           Enter: Select
                                                           +/-: Change Opt.
                                                           F1: General Help
                                                           F2: Previous Values
                                                           F9: Optimized Defaults
                                                           F10: Save & Exit
                                                           ESC: Exit

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             Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
      Advanced

    Power Configuration                                    Select Open Or Close JAHC.

    Resume On Lan                    [Disabled]
    Wake system by RTC               [Disabled]
    JAHC Enable                      [Disabled]

                                                           ↔: Select Screen
                                                           ↑↓: Select Item
                                                           Enter: Select
                                                           +/-: Change Opt.
                                                           F1: General Help
                                                           F2: Previous Values
                                                           F9: Optimized Defaults
                                                           F10: Save & Exit
                                                           ESC: Exit

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c. Press 'F10' to save change & exit after select "JAHC enabled" option.

5.2 JAHC Software

5.2.1 JAHC software functions
a. RTC wake up. The user can set up automatic startup and shutdown, one week as a circle
b. Caution message prior to shutdown to remind user to save the data. User can also choose to postpone the shutdown process.
c. When JAHC is running, it can support reboot automatically when system is crashed. No additional settings needed.

5.2.2 JAHC software installation guide
System Requirements:
a. Giada player with JAHC function.
b. Switch the JAHC button to "on" or enable it in BIOS if there is no physical button on the chassis.
c. Supported operation system: Windows 10 64bit, Linux 64bit.

How to install JAHC software:
Please download the JAHC.EXE from Giada website: www.giadatech.com, then follow up below steps:

a. Double-click the JAHC.EXE file, the setup wizard will pop up, select destination location and click [Next] button to continue the installation.
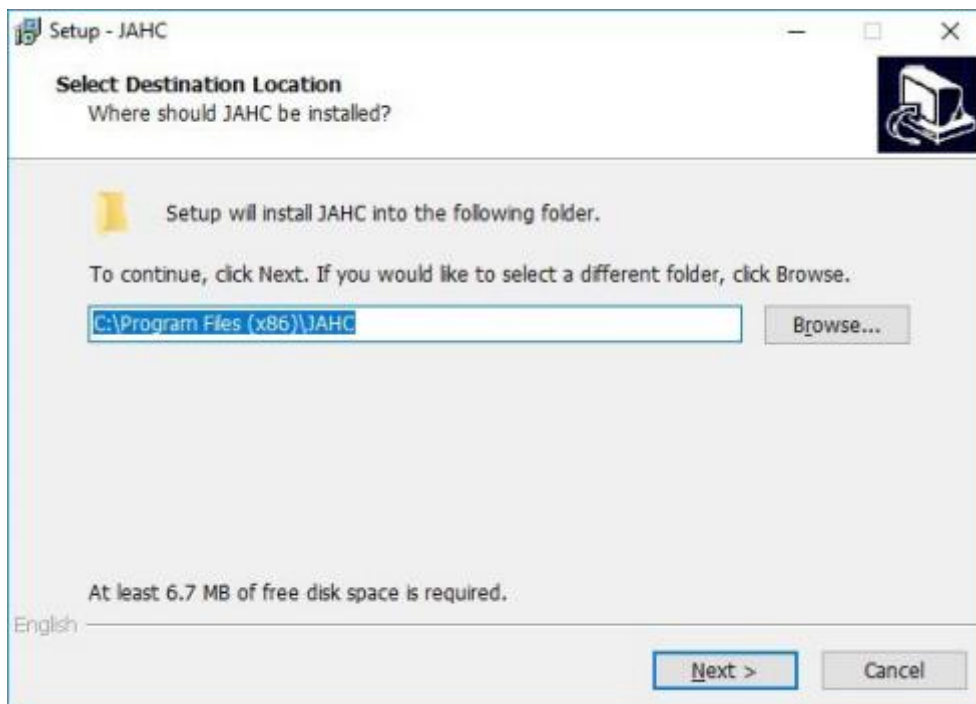
b. Click [Next] button to continue the installation.
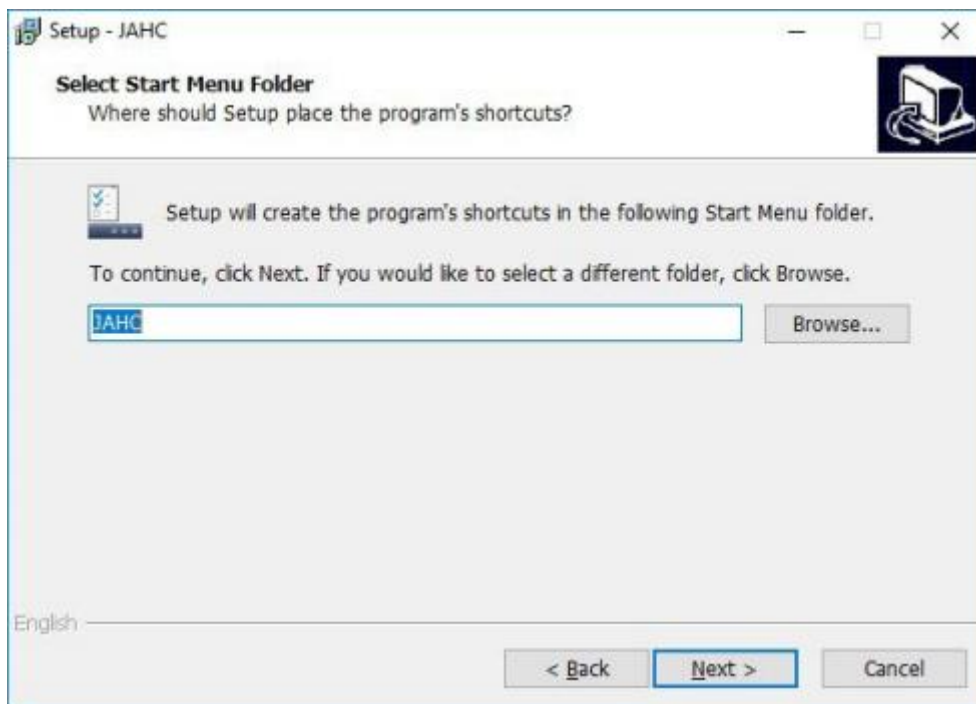
c. Select [Create a desktop shortcut] and click [Next] button.
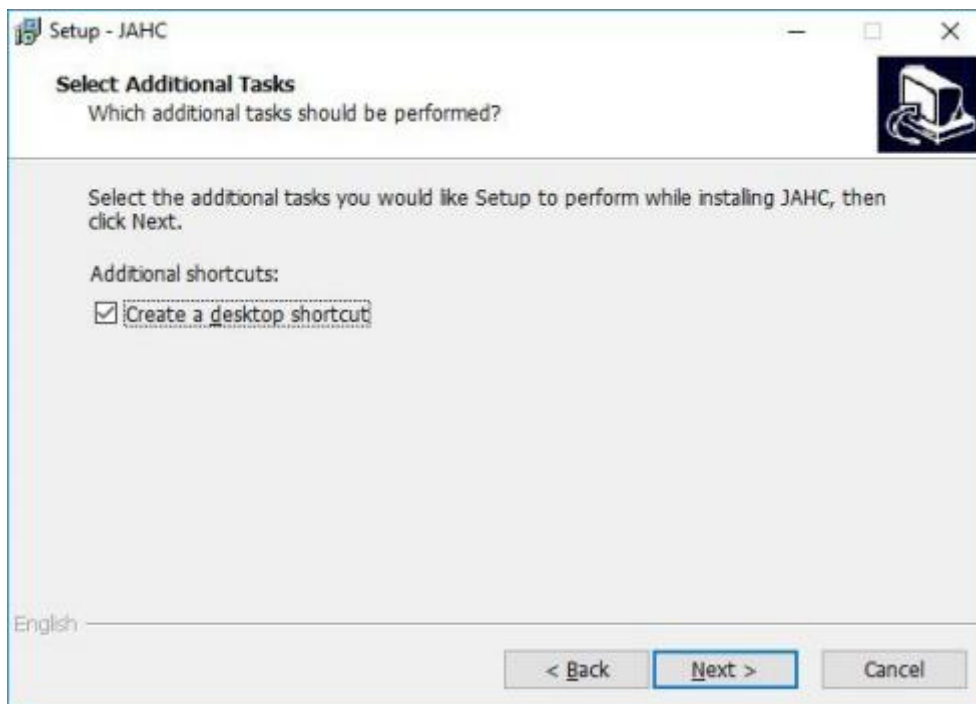
d. Click [Install] button to continue the installation.
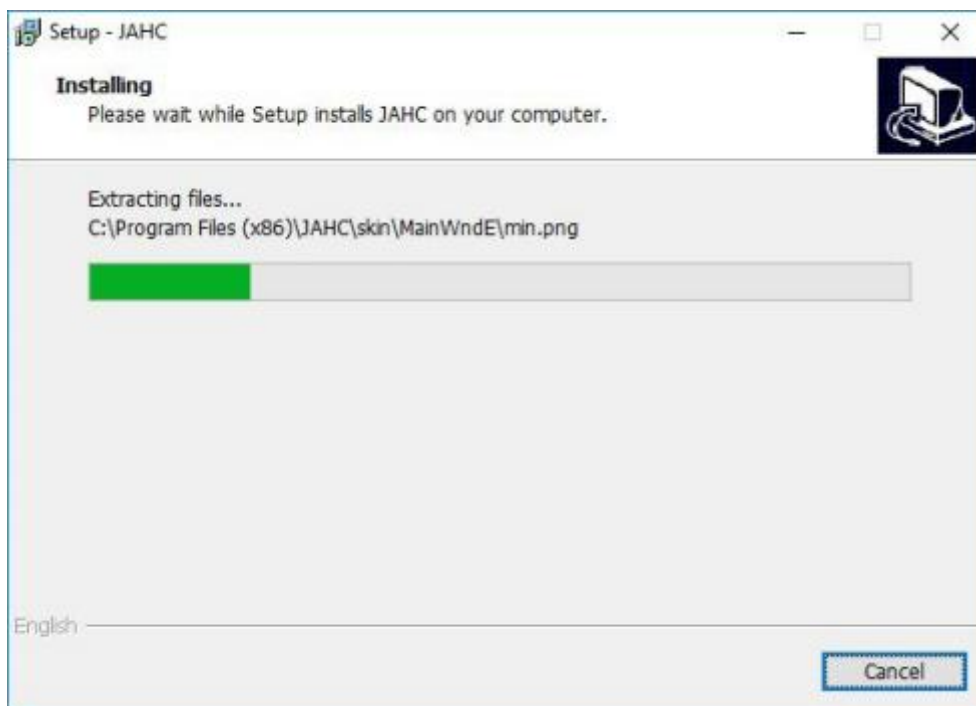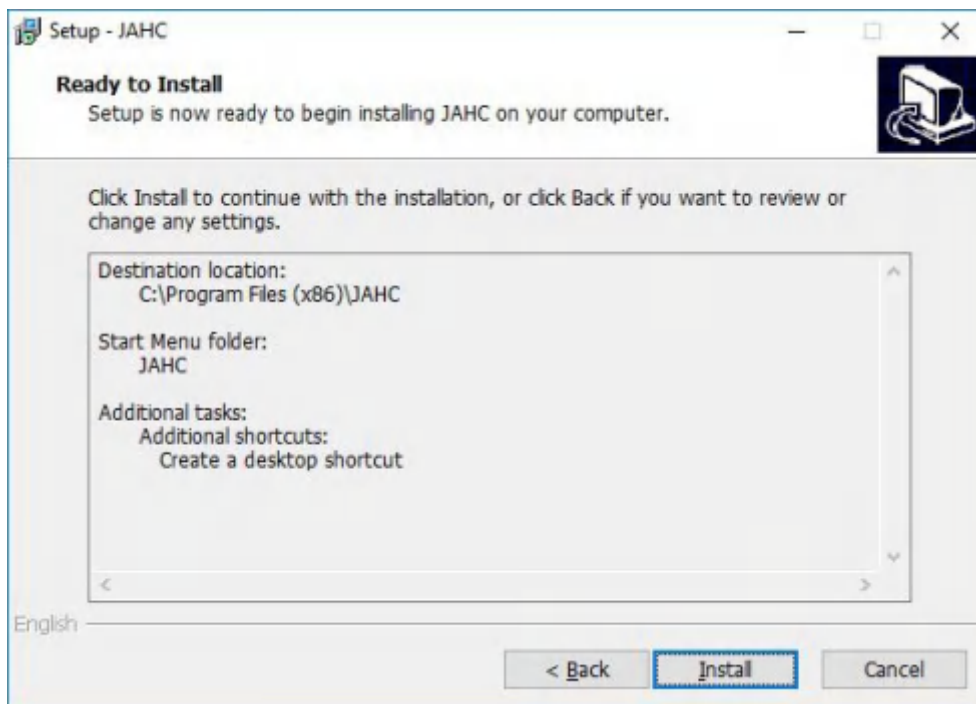
e. Click [Finish] button to finish the installation. You can select [Launch JAHC] to run the software automatically after finishing the installation.

Notice: The JAHC will be added into boot item when it is installed. It will start up when system boot up.

5.2.3 Startup & shutdown time setup

After installing the JAHC software, double click the JAHC icon on taskbar and the setup menu will pop up.
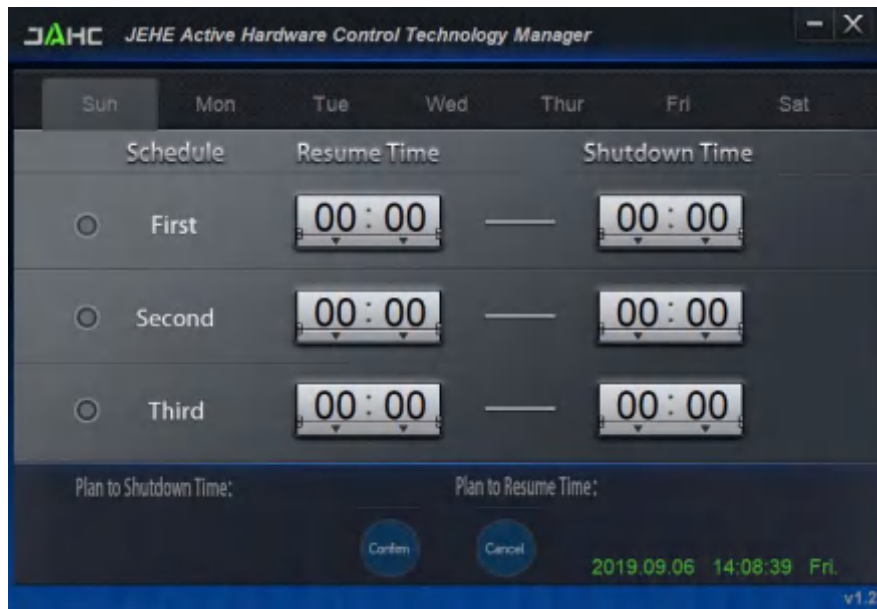
One week as a circle, maximum 3 schedules per day. Select each schedule to set up the resume time and shutdown time. Click [Confirm] button to launch the schedule.

After finishing the setup, the menu window will notice the resume time and shutdown time.

⚠ Caution: If the interval from shutdown time to next resume time is less than 3 minutes, the system will not shut down.

Click [Cancel] button to restore the time settings and cancel the shutdown status.
Click [X] button to hide the menu. You can find it on taskbar.
Right click the JAHC icon on taskbar and select [exit] to exit the software.
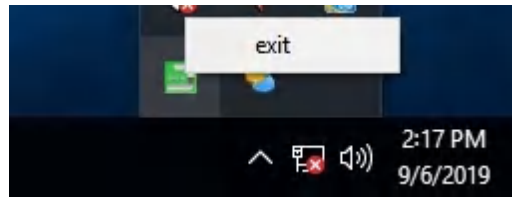
Shutdown caution: the shutdown caution will pop up before the system shutdown.
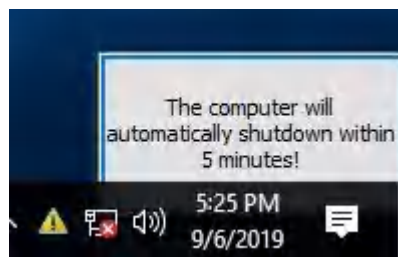
You can double click the message window and a new dialog box will pop up.
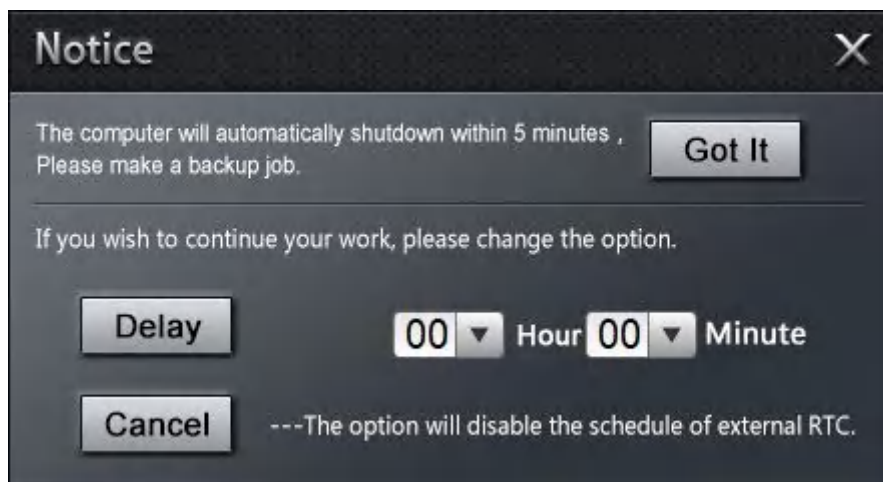
You can click [Delay] button and set up the time to delay the shutdown or click [Cancel] button to cancel the shutdown.

5.3 Watchdog API and Instruction

Please contact Giada FAE (email:support@giadatech.com) for watchdog API software and instruction.