D611 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.
• Don't disconnect the power cord when the system is running to avoid damage to the sensitive components caused by instantaneous surge voltage.

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Table of Contents

1. Product Introduction

Based on Intel® Tiger Lake UP3 platform, Giada D611 adopts DDR4 dual-channel memory as well as M.2 interface for Nvme SSD storage expansion. With one DP and two HDMI display outputs, it supports 8K resolution. WIFI 6, 5G and TPM2.0 are supported. The player is suitable to be applied in high-end digital signage applications.

2. Interface Description and Hardware Specifications

2.1 Interface Description

Front I/O Port

Left I/O Port

Rear I/O Port

Right I/O port

2.2 Hardware Specifications

D611		D611-1115G440N0G-GIA	D611-1135G740N0G-GIA	D611-1165G740N0G-GIA
Processor	**CPU**	Intel® Core i3-1115G4	Intel® Core i5-1135G7	Intel® Core i7-1165G7
	Frequency	3.00 GHz (Up to 4.10 GHz)	2.40 GHz (Up to 4.20 GHz)	2.80 GHz (Up to 4.70 GHz)
	BIOS	AMI Source Code		
	Chipset	SOC		
Memory	**Type**	DDR4-3200MHz		
	Socket	2 x SO-DIMM		
	Max Capacity	32 GB		

Graphics	**GPU**	Intel® 11th Gen. UHD Graphics Intel® Iris® X Graphics
	Graphic Engine	DirectX 12, OpenGL 4.5, OpenCL 2.2, 8K60 12b 4:2:0 HEVC/VP9/SCC
	DP	1 x DP (Max.7680 x 4320@60Hz)
	HDMI2.0	2 x HDMI (Max.4096 x 2160@60Hz)
Network	**Controller**	Realtek RTL8111G Gigabit Ethernet
	Interface	1 x RJ45
I/O Interface	**USB**	1 x USB 3.2 Gen2, 2 x USB2.0, 1 x USB Type-C3.2 Gen2
	Serial Port	1 x RS232
	Audio	1 x MIC-IN, 1 x AUDIO-OUT
	M.2 (2230)	1 x E-key M.2 (2230) for WiFi/BT
	SIM	1 x SIM Slot
	M.2 (3052)	1 x B-key M.2 (3052) for 3G/4G/5G
Storage	**M.2**	1 x M-key M.2 (2242/2280) for SSD
JAHC	**JAHC**	Watchdog / Auto power on/ RTC/Wake On Lan
Operation System	**OS**	Windows 10(64-bit) / Linux
Power	**Power Type**	DC-IN
	Input Voltage	19V/3.42A
Mechanical	**Construction**	Metal
	Mounting	Desk/VESA Mounting(JZ183)
	Dimension (W x D x H)	189.6mm x 148.3mm x 26mm
	Color	Black
Environment	**Operating Temperature**	0-40℃ at 0.7m/s Air Flow
	Relative Humidity	95%@40℃ (non-condensing)
Certification	**EMC**	CE/FCC

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 four screws and remove the top cover. (SO-DIMM, M.2 slot for 3G/4G/5G and SIM card slot are on top side)
Unscrew the four screws, push the bottom cover and remove it. (M.2 for SSD and M.2 for WIFI are on bottom side)

3.1 Memory Installation

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

1. Locate the SO-DIMM slot 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.
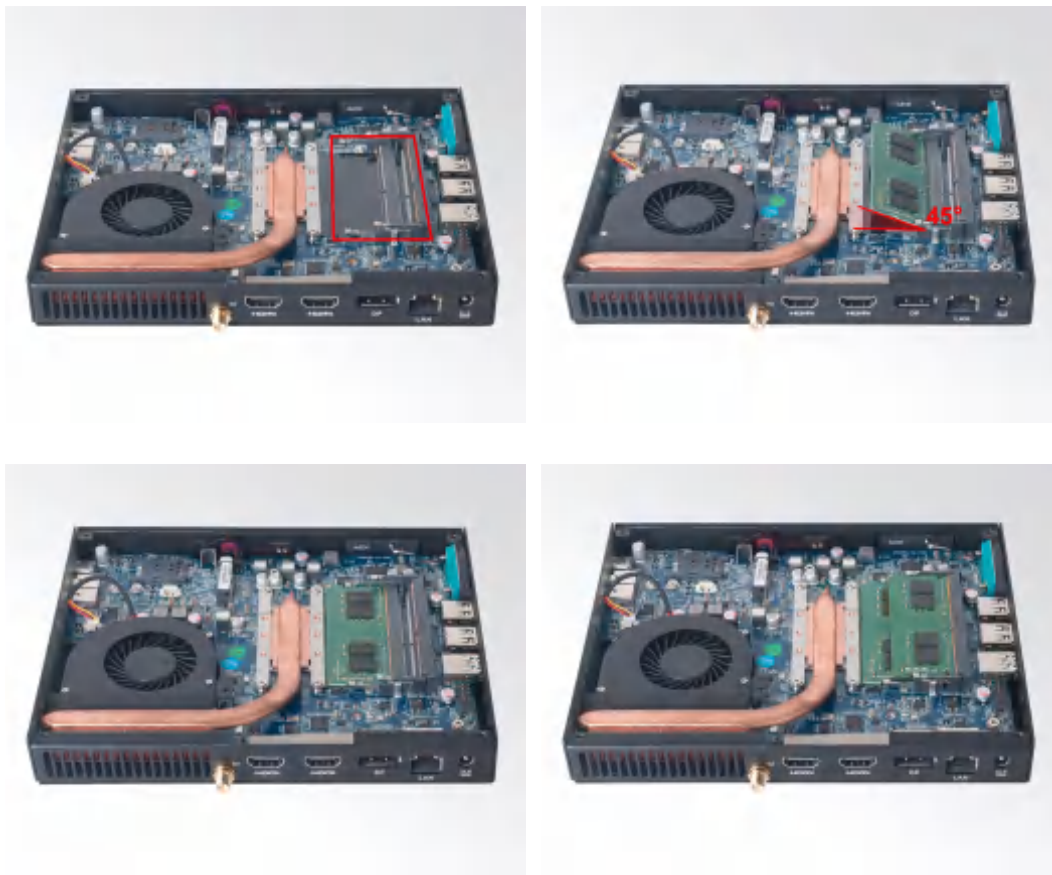
3.2 3G/4G/5G Installation

● **3G/4G/5G Installation**

⚠ Default SMA connector and cable is for WIFI. Please change to 3G/4G/5G SMA connector and cable.

1. Plug the 3G/4G/5G module into the M.2 slot.
2. Secure the module to the carrier by tightening up the screw.
3. Connect the cable to **Main** and install the antenna.

3.3 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.

3.4 WIFI (M.2) Installation

1. Plug the WIFI module into the appropriate slot.
2. Secure the module to the carrier by tightening up the screw.
3. Connect the black cable to **Main** and grey cable to **AUX**. Install the antenna.

3.5 SIM Card Installation

⚠ This product supports standard SIM card with the size of 25mm × 15mm.

1. [Open] the SIM card holder and pull it up.
2. Insert the SIM card.
3. [Lock] the card holder.

4. BIOS Setup

Notice:

The descriptions relating to BIOS setup in this Manual is for reference only when 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 for 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
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 on 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 Figure 1.
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.

```
                          Aptio Setup - AMI
   Main  Advanced  Security  Boot  Save & Exit

   BIOS Information                                    Set the Date. Use Tab to
   BIOS Vendor              American Megatrends        switch between Date elements.
   Core Version             5.19                       Default Ranges:
   Project Version          63N002B0                   Year: 1998-9999
   Build Date and Time      06/18/2021 16:43:42        Months: 1-12
   Access Level             Administrator              Days: Dependent on month
                                                       Range of Years may vary.
   Processor Information
   Name                     TigerLake ULT
   Type                     11th Gen Intel(R)
                            Core(TM) i5-1135G7 @
                            2.40GHz

   Total Memory             4096 MB                    ↔: Select Screen
   Memory Speed             2400 MT/s                  ↑↓: Select Item
                                                       Enter: Select
   ME FW Version            15.0.0.1320                +/-: Change Opt.
                                                       F1: General Help
   System Date              [Tue 08/31/2021]           F2: Previous Values
   System Time              [16:36:52]                 F9: Optimized Defaults
                                                       F10: Save & Exit
                                                       ESC: Exit


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```
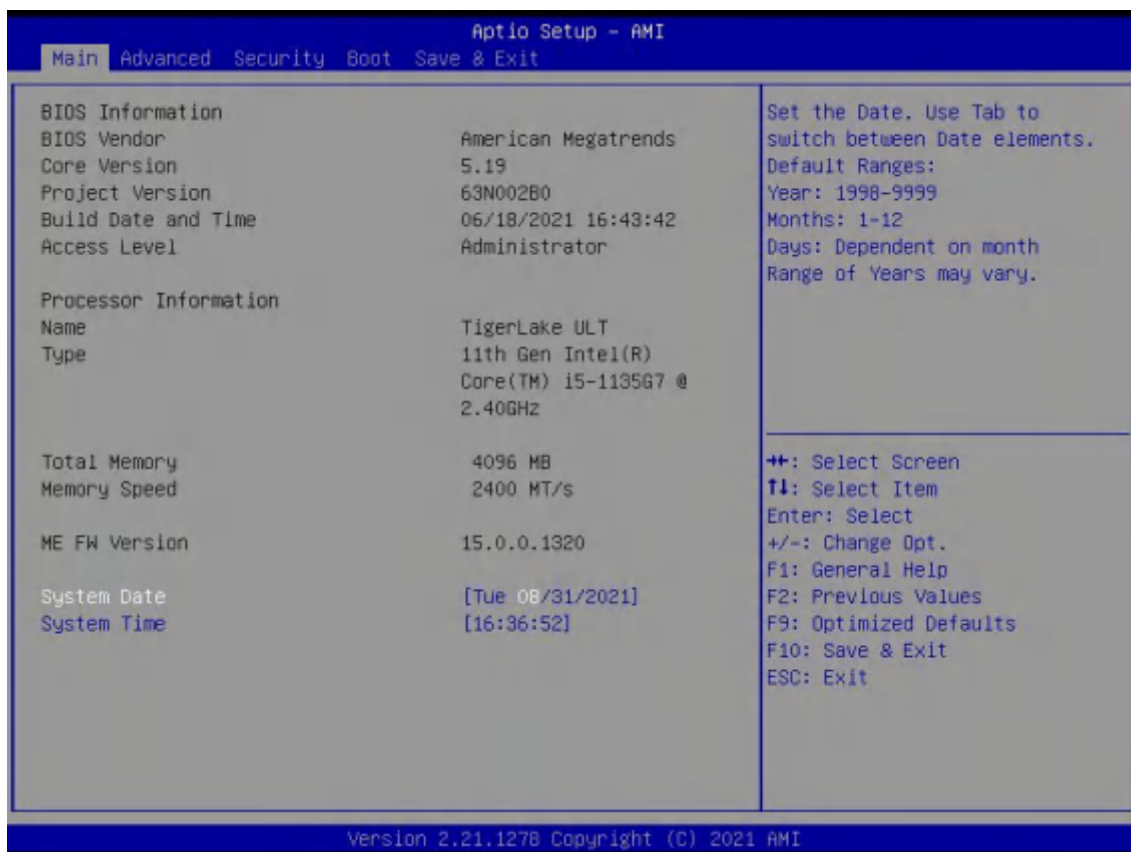
Fig 1

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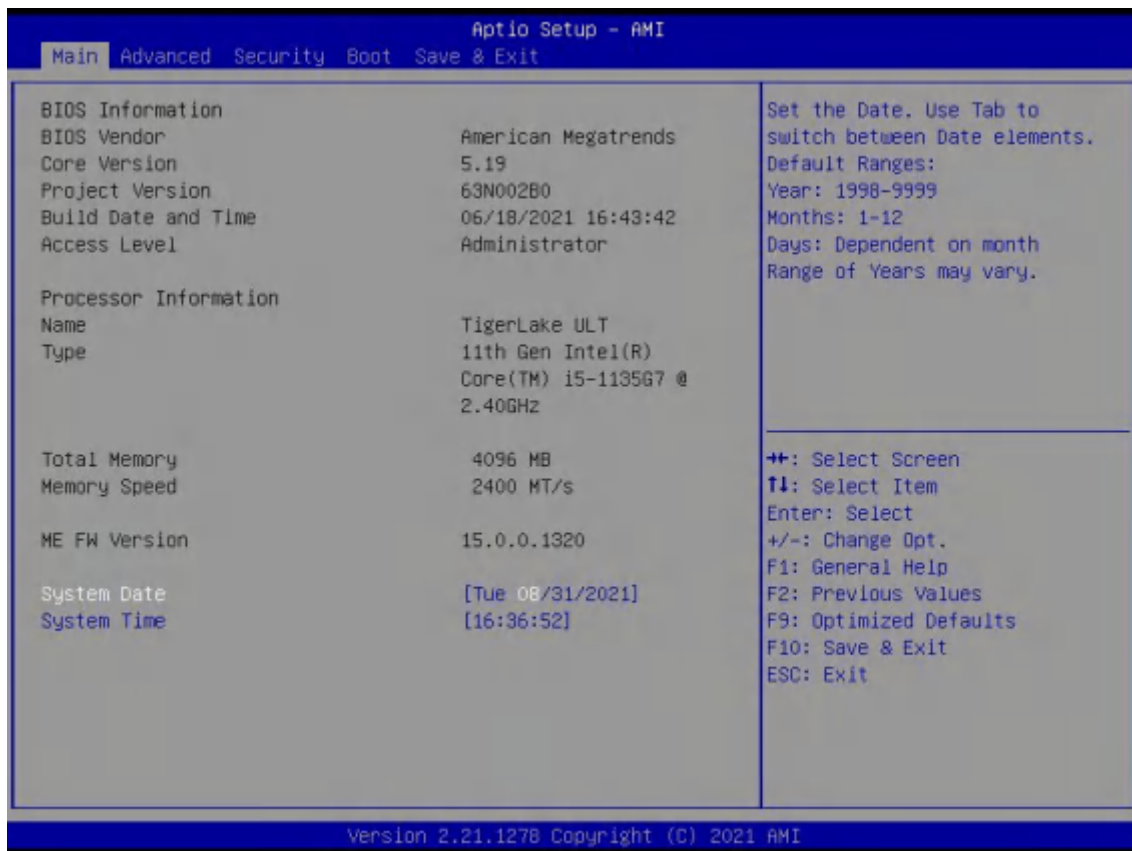
3) Security (set the administrator/user password)

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 setting)

```
                            Aptio Setup - AMI
  Main  Advanced  Security  Boot  Save & Exit

  BIOS Information                                  Set the Date. Use Tab to
  BIOS Vendor              American Megatrends      switch between Date elements.
  Core Version             5.19                     Default Ranges:
  Project Version          63N002B0                 Year: 1998-9999
  Build Date and Time      06/18/2021 16:43:42      Months: 1-12
  Access Level             Administrator            Days: Dependent on month
                                                    Range of Years may vary.
  Processor Information
  Name                     TigerLake ULT
  Type                     11th Gen Intel(R)
                           Core(TM) i5-1135G7 @
                           2.40GHz

  Total Memory             4096 MB                  ++: Select Screen
  Memory Speed             2400 MT/s                ↑↓: Select Item
                                                    Enter: Select
  ME FW Version            15.0.0.1320              +/-: Change Opt.
                                                    F1: General Help
  System Date              [Tue 08/31/2021]         F2: Previous Values
  System Time              [16:36:52]               F9: Optimized Defaults
                                                    F10: Save & Exit
                                                    ESC: Exit



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```

1) System time (hh:mm:ss)
Use this item to set the time for the computer, with the format as "HH / MM / SS".
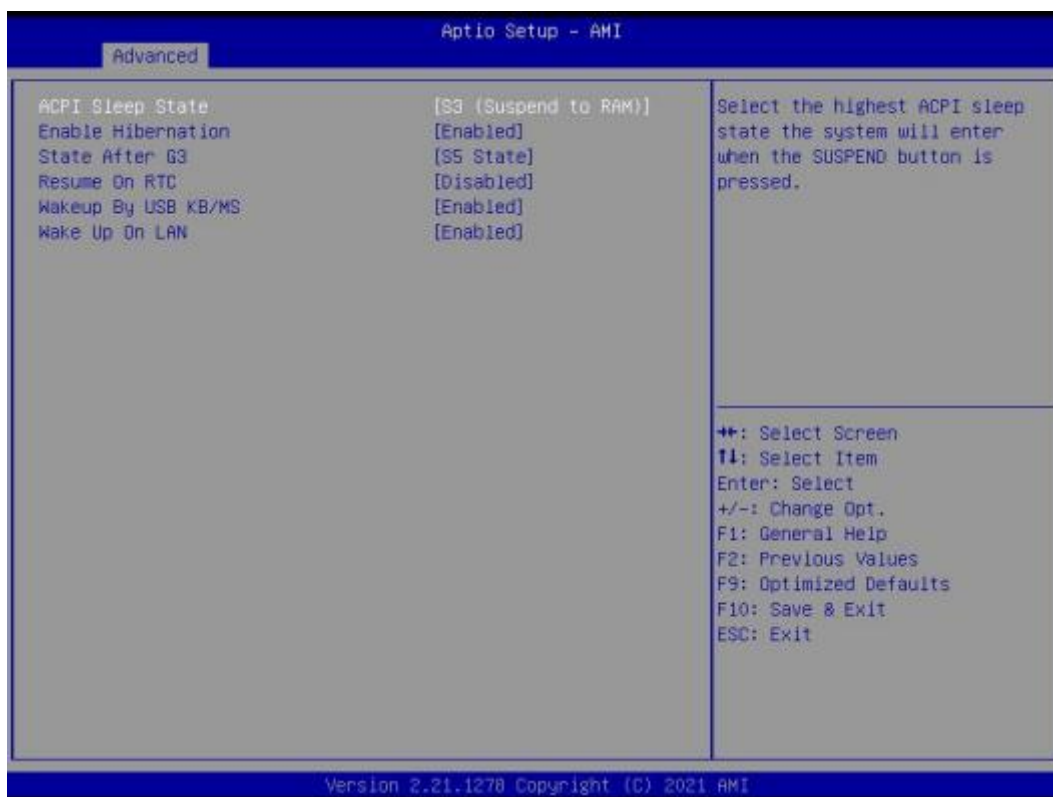

2) System date (mm:dd:yy)
Use this item to set the date for the computer, with the format as "week, MM / DD / YY".

4.2 Advanced (Advanced BIOS setup)

4.2.1 ACPI Setting

ACPI Options	Description
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)
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. ● Last State: If set it as Last State, it means the system will keep State of last setup.
Wake system from S5	● Disabled: By default, the functions is disabled. ● Fixed Time: You can use the fixed Time menu to modify the wake time. ● Dynamic Time: You can set multithreaded to wake system from S5 after enabling Dynamic Time.
Resume On RTC	● Enables or disables 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)
Wakeup By USB KB/MS	● Enabled/Disabled Wake Up by USB KB/Mouse from S3 Status.
Wake Up On Lan	Wake On LAN Function. ● Disabled: The WOL is disabled by default. ● Enabled.

4.2.2 CPU Configuration

The menu	Description
CPU Configuration	
Boot performance mode	● Max Non-Turbo Performance: the best performance. ● Max Battery. ● Turbo performance.
Intel (VMX) 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.

The menu	Description
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 Trusted Computing

Options	Description
Trusted Computing	
TPM20 Device Found **Firmware Version:** **Vendor:**	It shows the information of TPM device.
SHA-1 PCR Bank	Disable or Enable the SHA-1 PCR Bank. The option is enabled by default.
SHA256 PCR Bank	Disable or Enable the SHA256 PCR Bank. The option 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.
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 Hardware Monitor

Pc Health Menu	Description
Pc Health Status	
Smart Fan Mode	It includes "Automatic mode", "Full on mode" and "manual mode". ● Automatic mode. Automatic mode is enabled by default. ● Full on mode: ● Manual Mode.
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.

Pc Health Menu	Description
PWM slope setting	● 0.125 PWM ● 0.25 PWM ● 0.5 PWM ● 1 PWM ● 2 PWM ● 4 PWM ● 8 PWM
CPU temperature	● Current CPU Temperature.
System temperature	● Current System Temperature.
Fan1 Speed	● Current FAN Speed.

4.2.5 Serial Port 1 Configuration

Serial Port	Description
Serial Port	The user can set it as enabled or disabled
Device Settings	Set parameters of serial port
Change Settings	Select an optimal settings for super IO device.

4.2.6 OEM Configuration

```
                          Aptio Setup - AMI
      Advanced

  OEM Configuration                                  Select Open Or Close JAHC.

  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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```

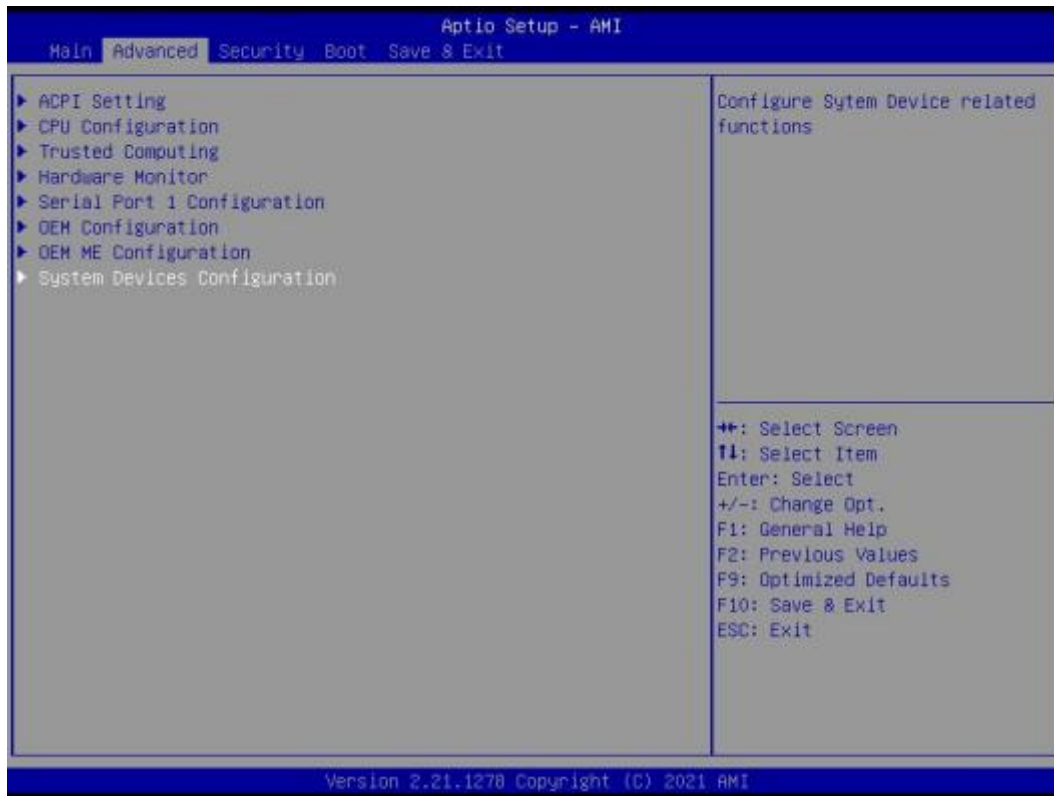| OEM Menu	Functions Description
OEM Configuration	
JAHC Enabled	JEHE Active Hardware Control (JAHC) management system includes both hardware Micro Control Unit (MCU) and software (JAHC Technology Manager). ● Disabled: The JAHC is disable by default. ● Enabled.

4.2.7 OEM ME Configuration

OEM ME Option	Description
OEM ME Configuration	
ME Control	• Enabled: ME will be enabled. • Disabled: ME will be disabled.

4.2.8 System Devices Configuration
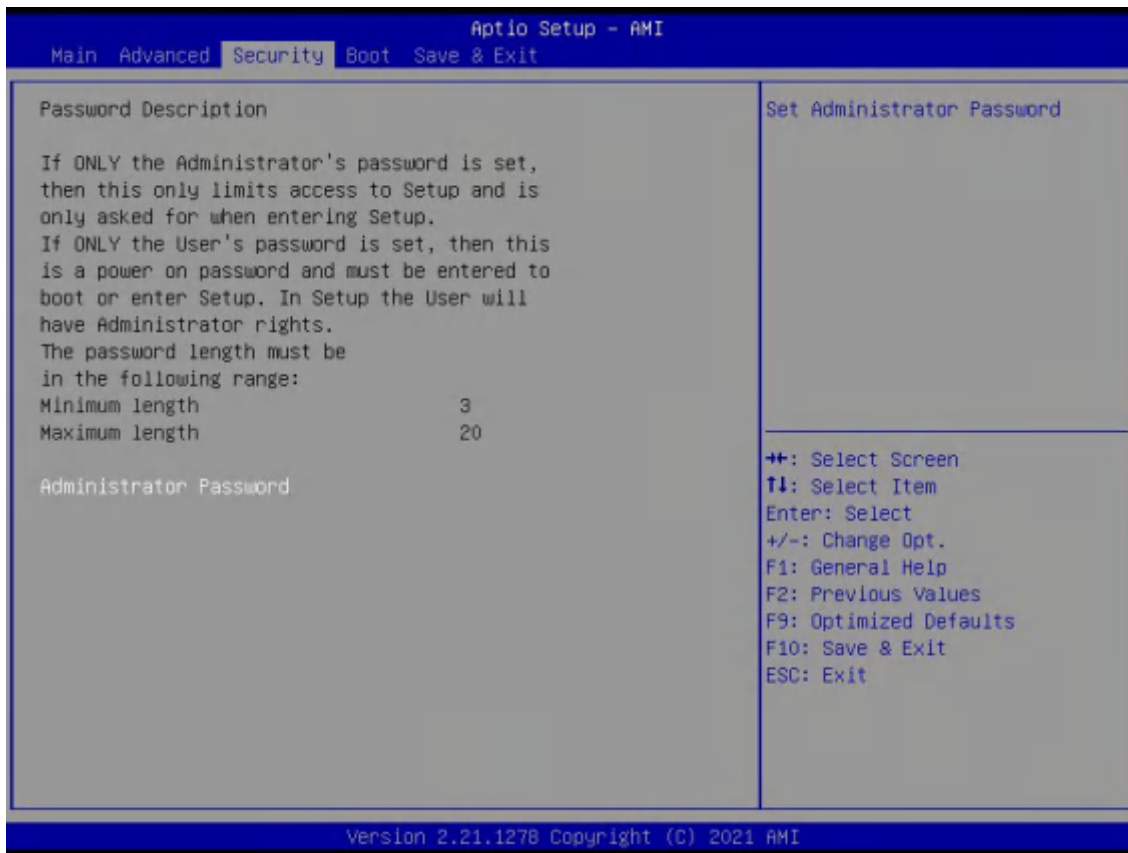
```
                          Aptio Setup - AMI
   Main  Advanced  Security  Boot  Save & Exit

 ▶ ACPI Setting                              Configure Sytem Device related
 ▶ CPU Configuration                         functions
 ▶ Trusted Computing
 ▶ Hardware Monitor
 ▶ Serial Port 1 Configuration
 ▶ OEM Configuration
 ▶ OEM ME Configuration
 ▶ System Devices 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 - AMI
        Advanced

 Network Stack           [Enabled]           Number of times the presence
 IPv4 PXE Support        [Disabled]          of media will be checked. Use
 IPv4 HTTP Support       [Disabled]          either +/- or numeric keys to
 IPv6 PXE Support        [Disabled]          set the value.
 IPv6 HTTP Support       [Disabled]
 PXE boot wait time      0
 Media detect count      1

                                             ➔←: 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 - AMI BIOS screen showing Advanced tab with NVMe Configuration, "No NVME Device Found", and navigation help text. Version 2.21.1278 Copyright (C) 2021 AMI]

System Devices Option	Description
System Devices Configuration	
Network stack	UEFI PXE Stack is disabled by default. You can enable UEFI LAN PXE if it's needed. ● Disabled: The network stack is disabled by default. ● Enabled: Enabled Network Stack.
NVMe Configuration	● AHCI: AHCI mode. ● Intel RST Premiun With Intel Optane System Acceleration: IRST mode.

4.3 Security Setup (set the administrator/user password)

```
                              Aptio Setup - AMI
    Main  Advanced  Security  Boot  Save & Exit

    Password Description                          Set Administrator Password

    If ONLY the Administrator's password is set,
    then this only limits access to Setup and is
    only asked for when entering Setup.
    If ONLY the User's password is set, then this
    is a power on password and must be entered to
    boot or enter Setup. In Setup the User will
    have Administrator rights.
    The password length must be
    in the following range:
    Minimum length                    3
    Maximum length                    20

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

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```

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
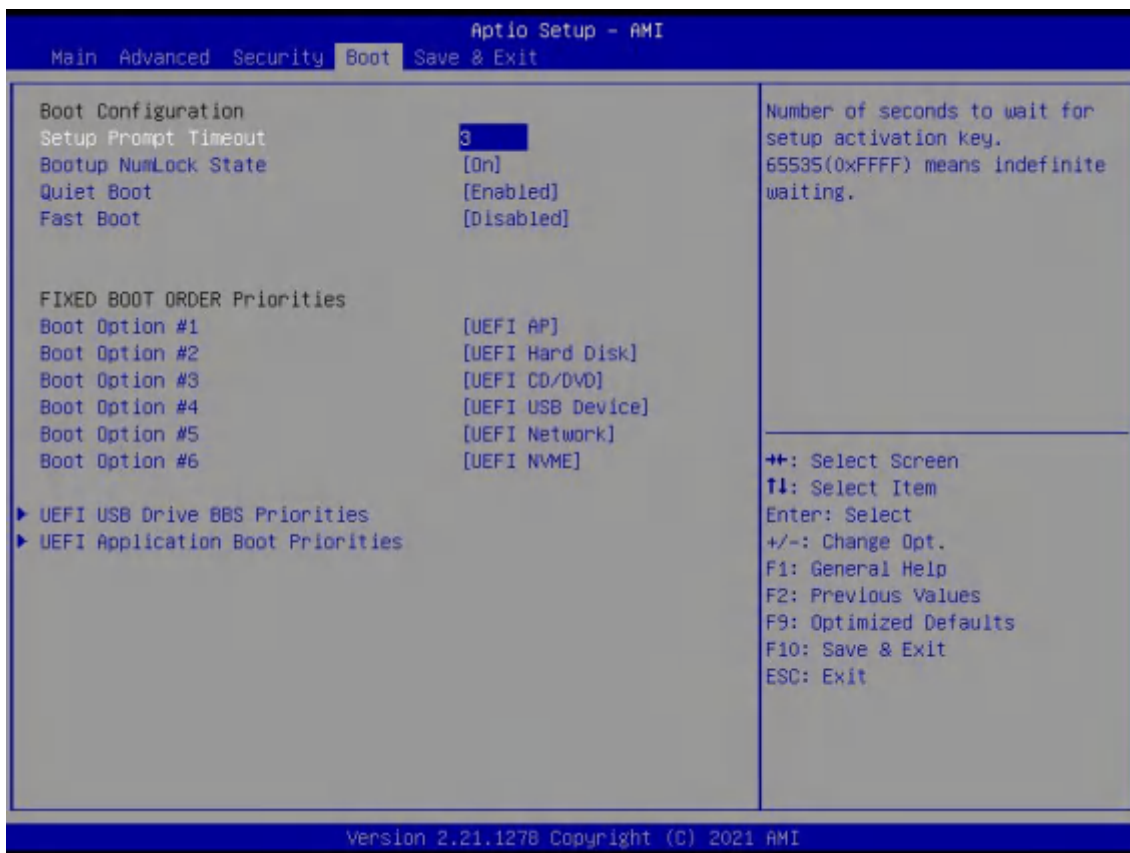
Boot Item	Description
Boot Configuration	
Setup Prompt Timeout	This item is used to set the waiting time of entering the operation system. During the BIOS post, if user doesn't press the keyboard, it won't respond unless you reboot the BIOS. The Setup Prompt Timeout is 3s by default. You can set the 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].
Fast Boot	Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot option.

Boot Item	Description
FIXED BOOT ORDER 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 Option #2	The second boot device.
Boot Option #3	The third boot device.
Boot Option #4	The fourth boot device.
Boot Option #5	The fifth boot device.
Boot Option #6	The sixth boot device.
UEFI USB Drive BBS Priorities	You can set and management UEFI USB device after enabling this option.
UEFI Application Boot Priorities	You can set and management UEFI hard disk after enabling this option.

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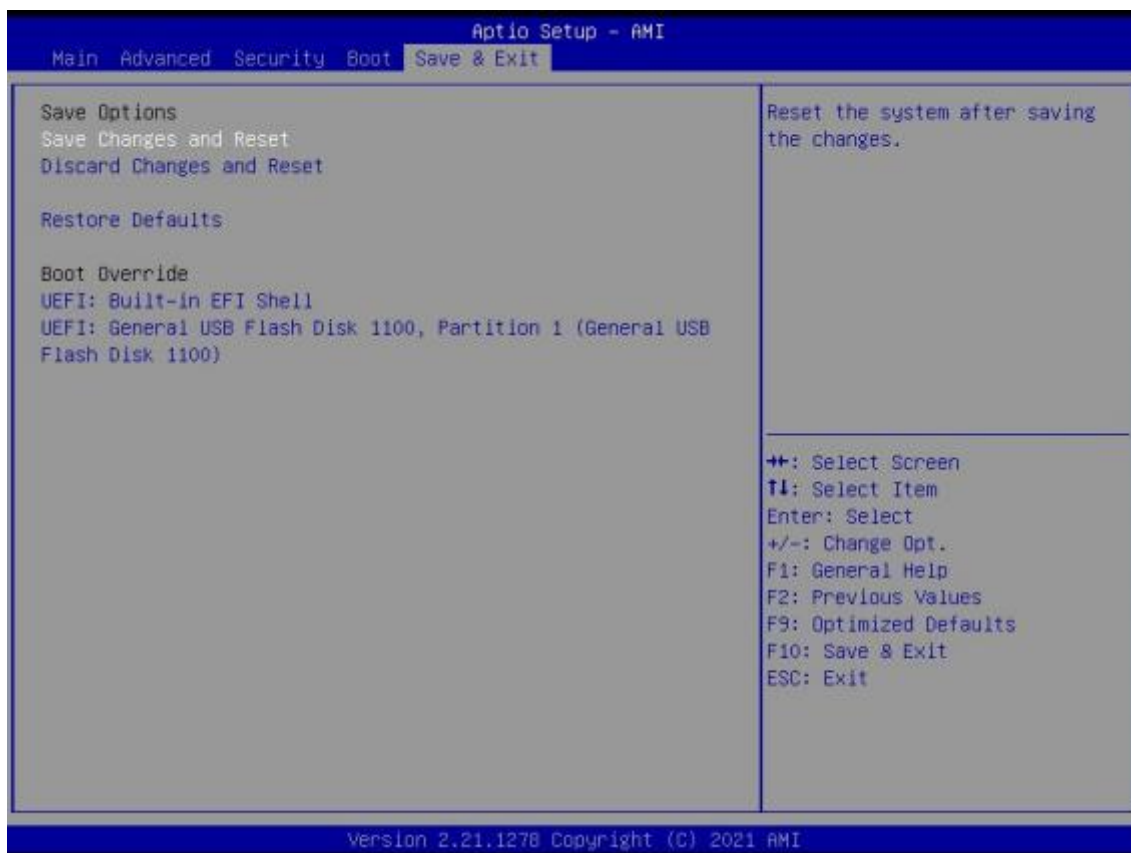
Save Exit Item	Description
Save Options	
Save Changes and Reset	Save all changes and exit
Discard Changes and Reset	Give up the settings and exit.
Restore Defaults	Recover it to default.
Boot Override	Whole Boot devices

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.
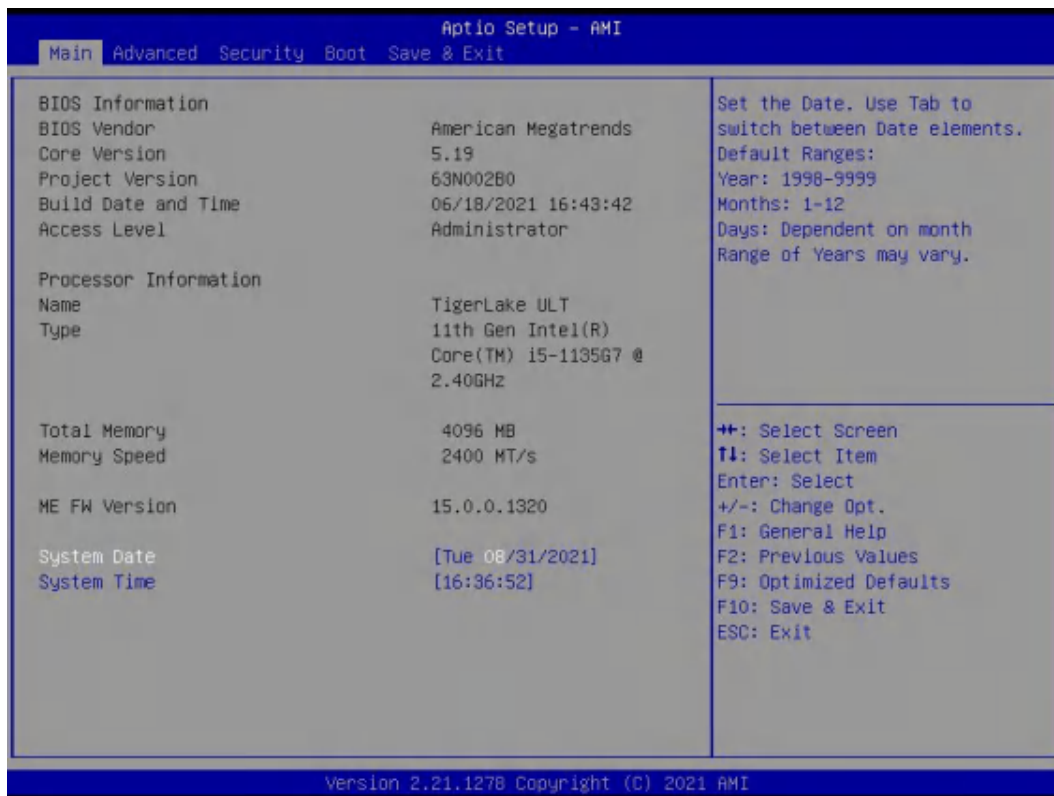
b. Select Advanced- > OEM configuration- > JAHC Enable- > Enabled.

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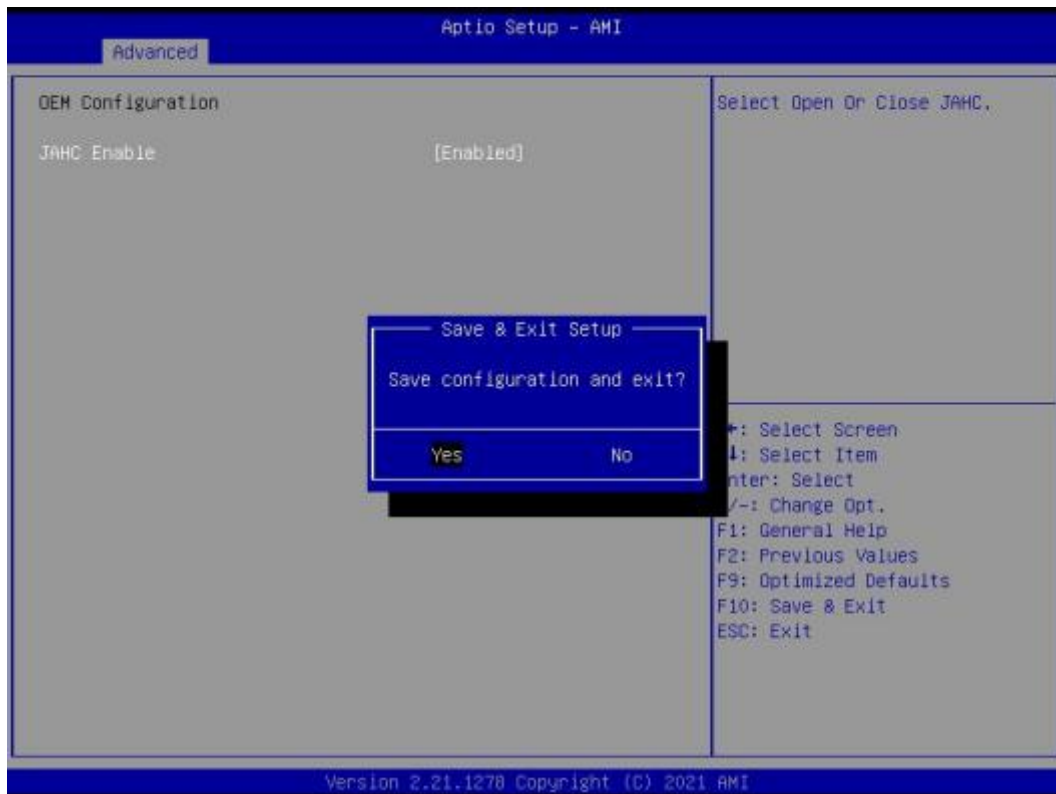
5.2 JAHC software

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 DVD, 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.
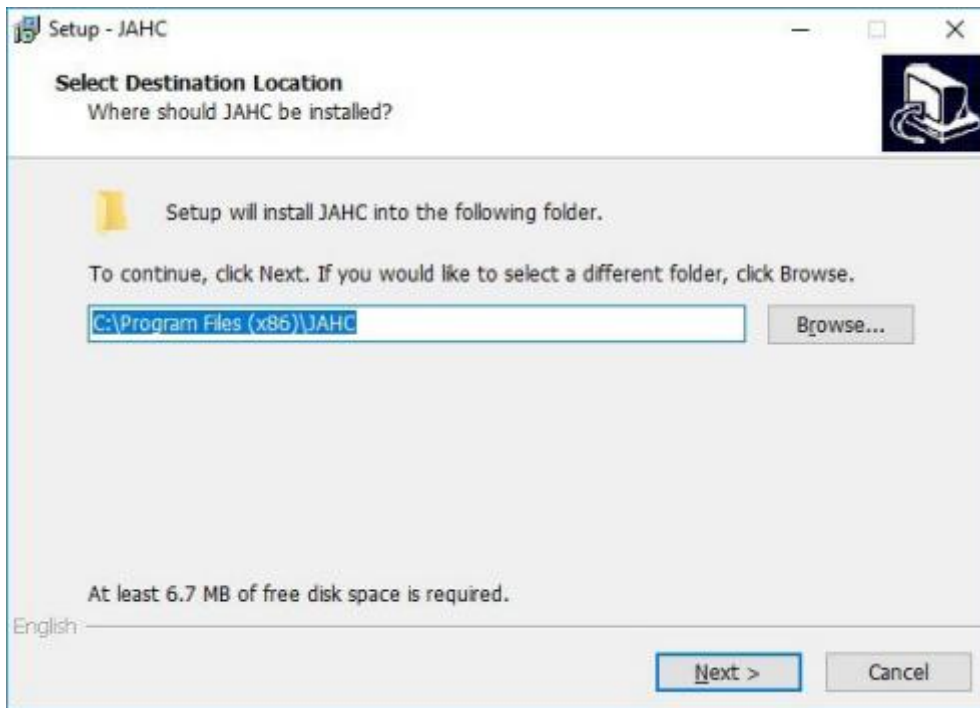
b. Click [Next] button to continue the installation.
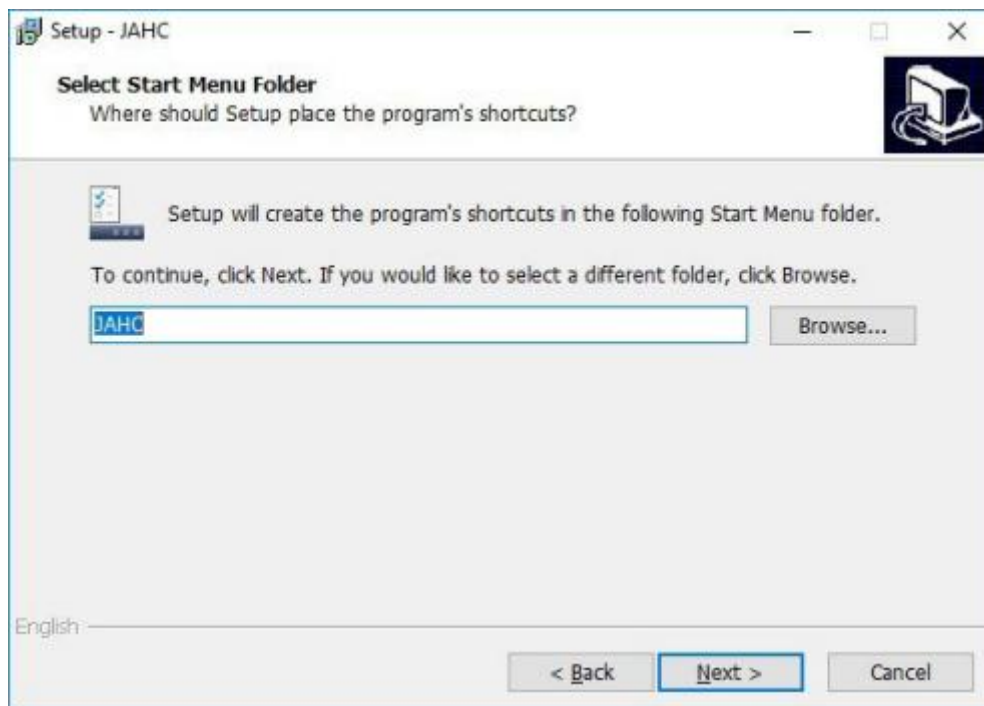
c. Select [Create a desktop shortcut] and click [Next] button.
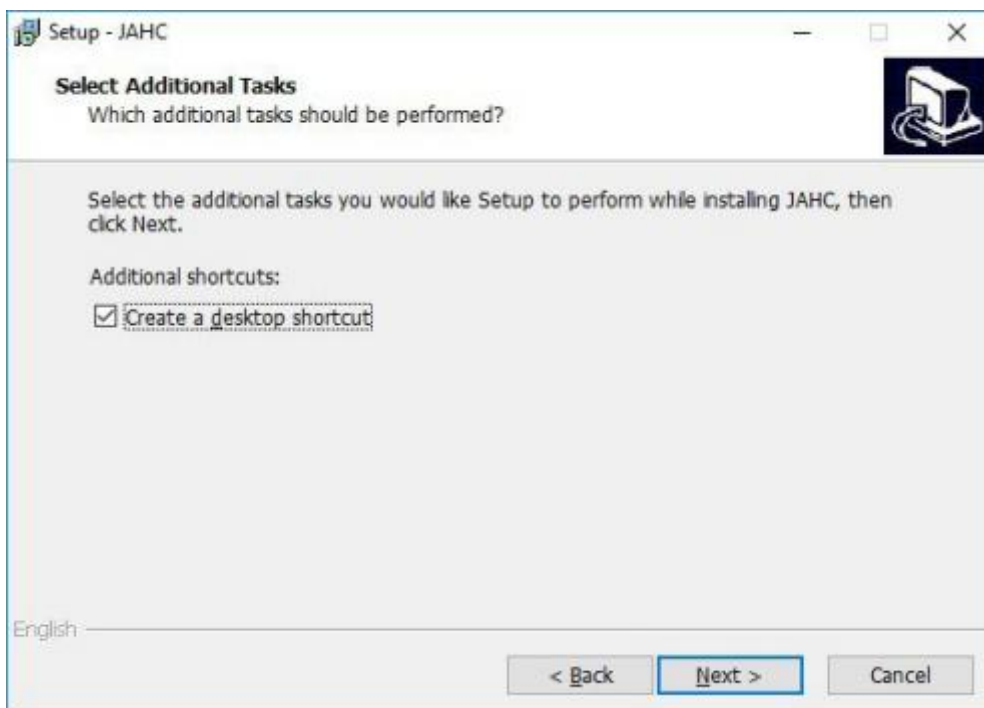
d. Click [Install] button to continue the installation.
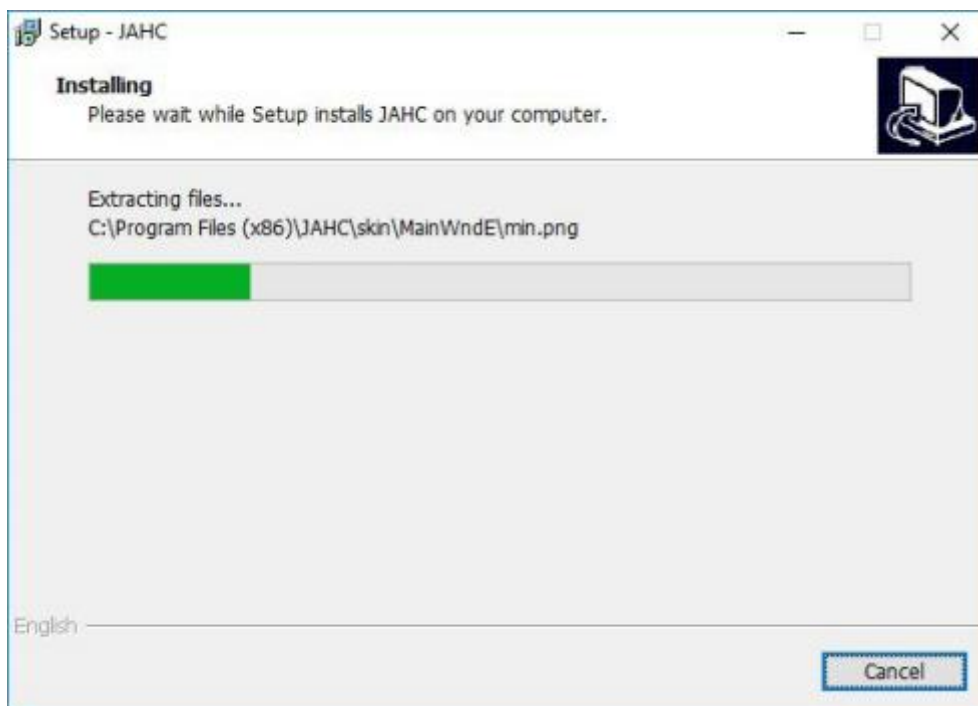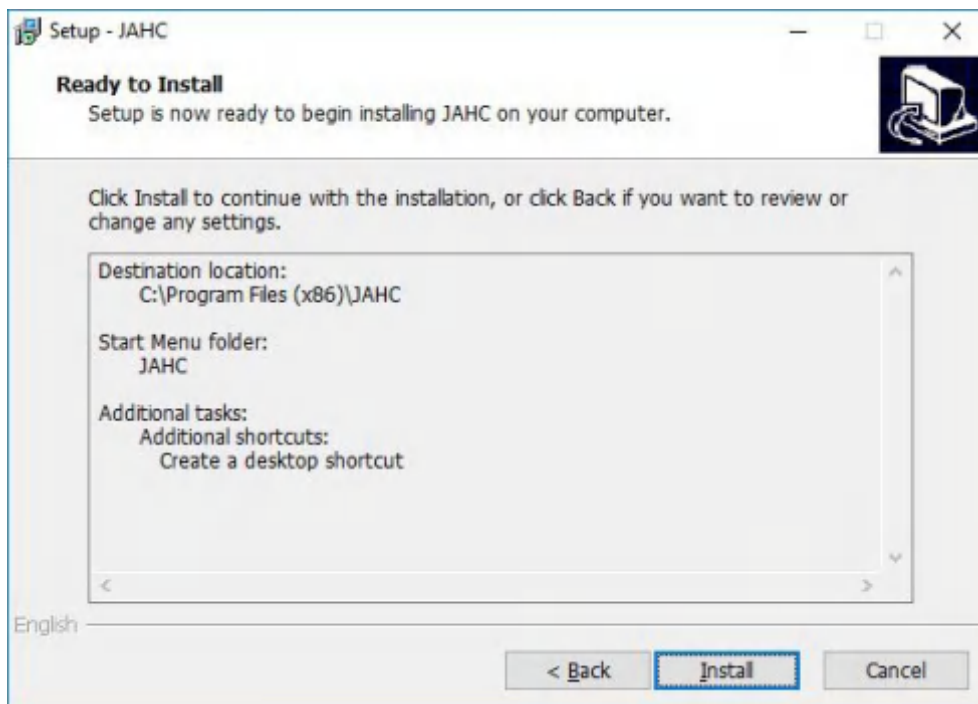
e. Click [Finish] button to finish the installation. You can select [Launch JAHC] to run the software automatically after finishing the installation.
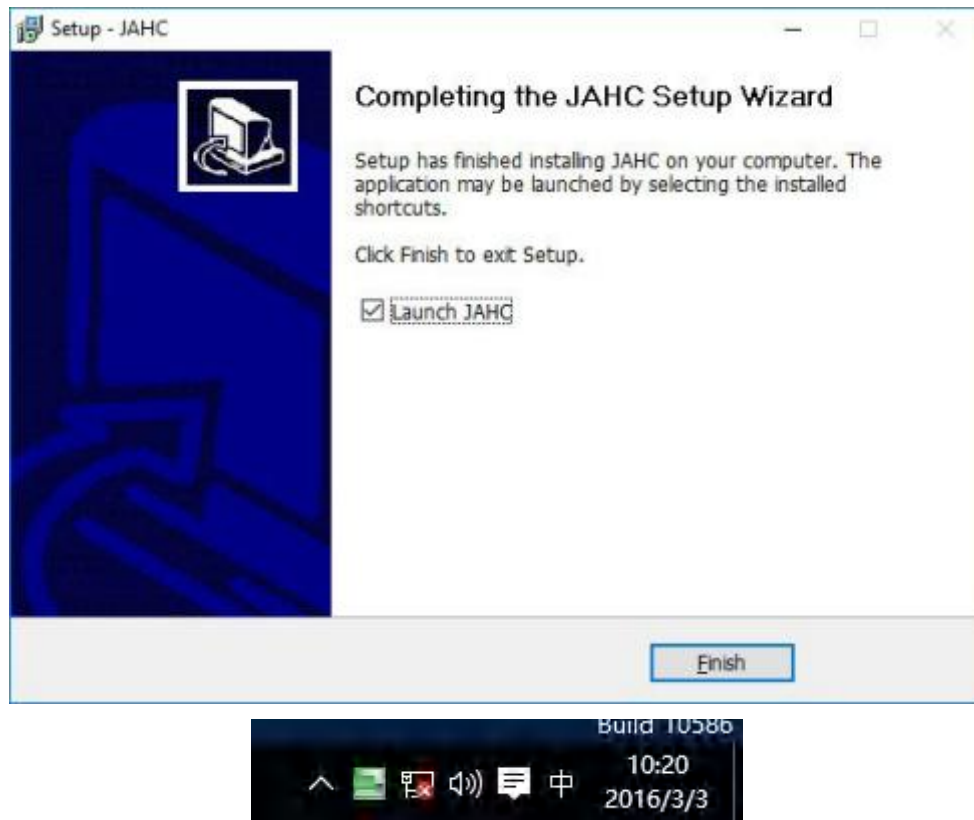
Notice: The JAHC will be added into boot item when it is installed. It will start up when system boot up.

5.2.3 Startup & shutdown time setup

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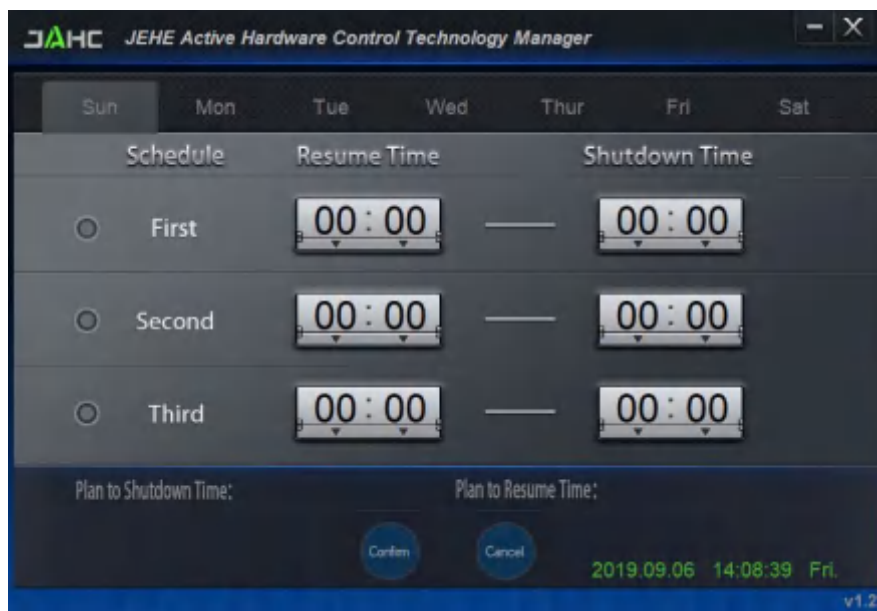
One week as a circle, maximum 3 schedules per day. Select each schedule to set up the resume time and shutdown time. Click [Confirm] button to launch the schedule.
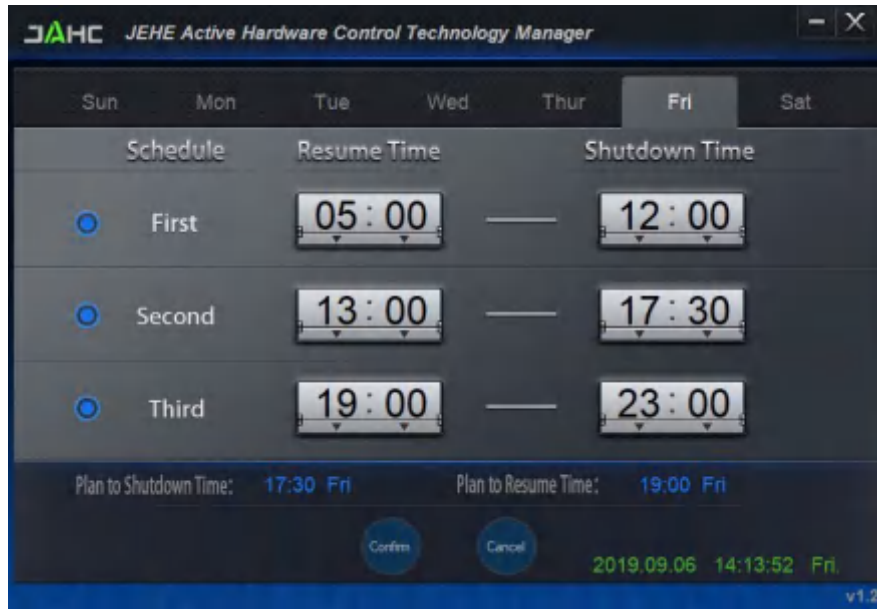
After finishing the setup, the menu window will notice the resume time and shutdown time.

⚠ 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.
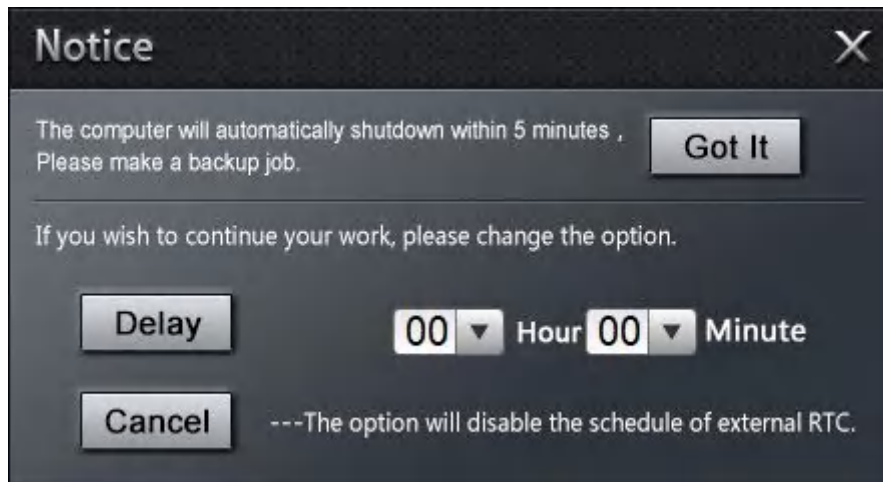Click [X] button to hide the menu. You can find it on taskbar.
Right click the JAHC icon on taskbar and select [exit] to exit the software.
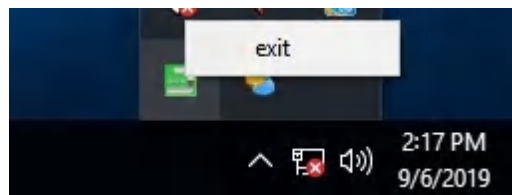
Shutdown caution: the shutdown caution will pop up before the system shutdown.
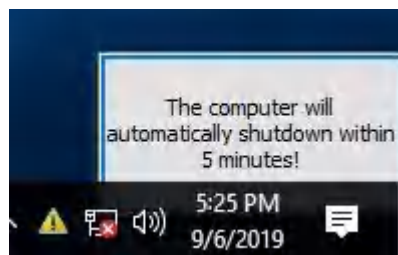
You can double click the message window and a new dialog box will pop up.

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.