

# **D68** 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 by instantaneous surge voltage.

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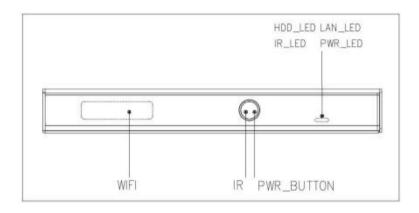
## 1. Product Introduction

Based on Intel® Whiskey Lake platform, Giada D68 adopts DDR4 dual-channel memory as well as M.2 and mSATA storage interface design. With one DP and two HDMI display outputs, it supports 4K resolution. The player is suitable to be applied in high-end digital signage applications.

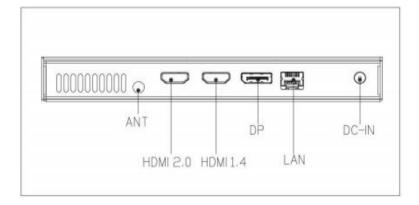
## 2. Interface Description and Hardware Specifications

## 2.1 Interface Description

#### Front I/O Port

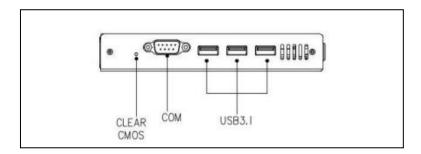


#### Rear I/O Port

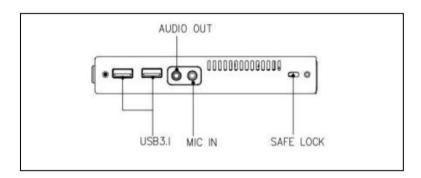


- 3 -

## Left I/O Port



## Right I/O port



## 2.2 Hardware Specifications

D	68	D68-N1-8145U40M0G	D68-N1-8265U40M0G
	CPU	Intel® Core i3-8145U	Intel® Core i5-8265U
Processor	Frequency	1.60 GHz (Up to 3.90 GHz)	2.10 GHz (Up to 3.90 GHz)
	BIOS	AMI Source Code	
	Chipset	soc	
	Туре	DDR4-2400MHz	
Memory	Socket	2 x SO-DIMM	
	Max Capacity	32 GB	
	GPU	Intel® UHD Graphics 620	
	Graphic Engine	Direct3D 2015, OpenGL 4.5, OpenCL 2.1	
Graphics 1 x DP (Max.4096 x 2304@60Hz)			
	HDMI2.0	1 x HDMI (Max.4096 x 2304@60Hz)	
	HDMI1.4	1 x HDMI (Max.4096 x 2304@24Hz)	
Network	Controller	Realtek RTL8111H Gigabit Ethernet	
Interface 1 x RJ45		1 x RJ45	

	USB	5 x USB 3.1	
I/O Interface	Serial Port	1 x RS232	
	Audio	1 x MIC-IN, 1 x AUDIO-OUT	
	M.2 (2230)	1 x M.2 (2230) for WiFi	
	SIM	1 x SIM Slot	
	Mini PCle	1 x Full-size Mini-PCle for mSATA/WiFi/3G/4G	
Storago	mSATA	1 x Full-size mSATA (Optional)	
Storage	M.2	1 x M.2 (2242/2280) for SSD	
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	
Power	Input Voltage	19V/3.42A	
	Construction	Metal	
	Mounting	Desk/VESA Mounting (JZ183)	
Mechanical	Dimension (W x D x H)	189.6mm x 148.3mm x 26mm	
	Color	Black	
	Operating	0-40°C at 0.7m/s Air Flow	
Environment	Temperature	O TO C at 6.7 m/6 /m 1 low	
	Relative Humidity	95%@40℃ (non-condensing)	
Certification	EMC	CE/FCC	

## 3. Accessories Installation Steps

A 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 #1, mini PCIE slot for MSATA/WIFI/3G/4G, M.2 for SSD and SIM card slot are on top side)
Unscrew the four screws, push the bottom cover and remove it. (SO-DIMM#2 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 MSATA/WIFI/3G/4G Installation

#### • MSATA Installation

- 1. Plug the MSATA module into the mini PCIE slot.
- 2. Secure the module to the carrier by tightening up the screw.

#### WIFI Installation

- 1. Tighten the WIFI module and WIFI module bracket with screws.
- 2. Plug the WIFI module into the mini PCIE slot.
- 3. Secure the module to the carrier by tightening up the screw.
- 4. Connect the black cable to **Main** and grey cable to **AUX**. Install the antenna.

#### • 3G/4G Installation

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

- 1. Plug the 3G/4G module into the mini PCIE 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 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
<b>↑</b>	(Up key) Move to the previous item
$\downarrow$	(Down key) Move to the next item
<b>←</b>	(Left key) Move to the left item
$\rightarrow$	(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 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.



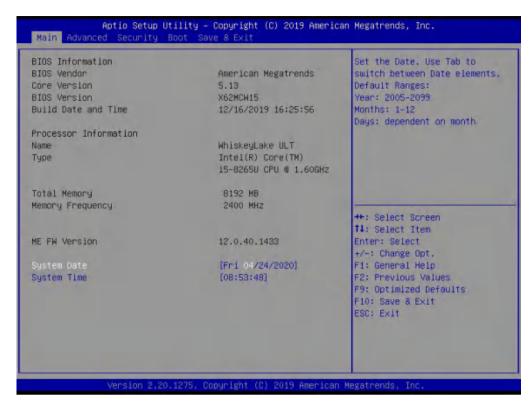


Fig 1

#### 1) Main (standard CMOS setup)

This item is used for setting the date and time.

#### 2) Advanced (advanced BIOS setup)

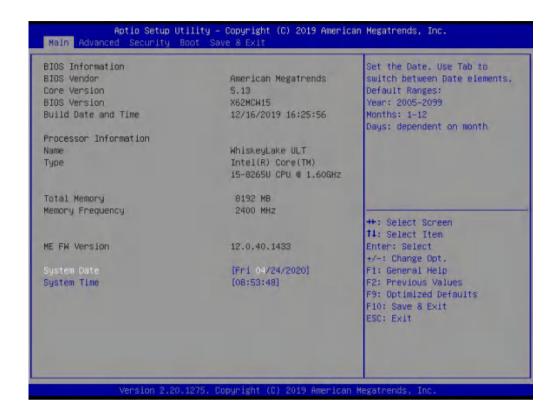
This item is used for setting the advanced functions provided by BIOS, such as specifications of PCIe facilities, CPU, HDD, etc.

- 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)



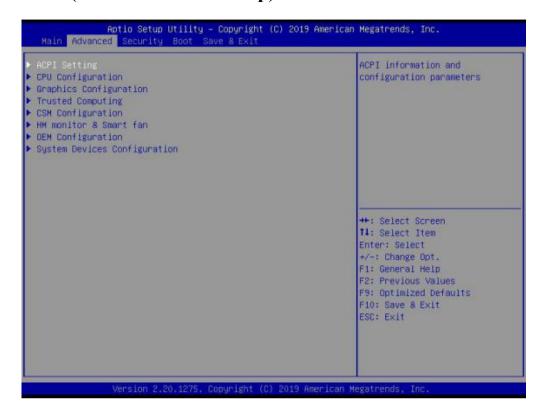
#### 1) System time (hh:mm:ss)

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

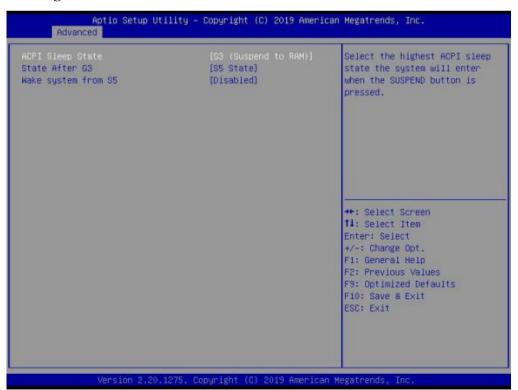
#### 2) System date (mm:dd:yy)

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

## 4.2 Advanced (Advanced BIOS Setup)



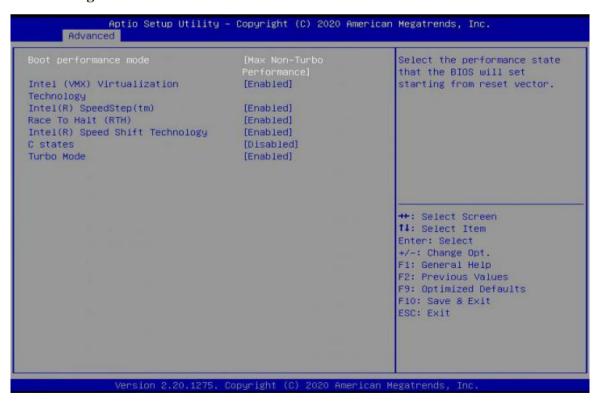
#### 4.2.1 ACPI Setting





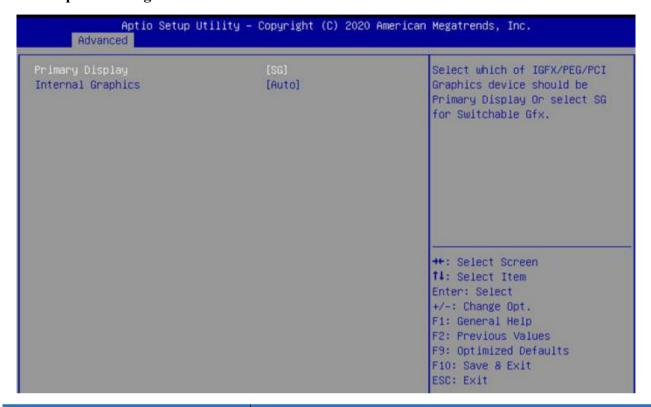
ACPI Options	Description
ACPI Sleep state	You can use the ACPI Sleep state option to control system hibernation  Suspend Disabled: Disable system Suspend.  S3 (Suspend to RAM): Enable S3(Suspend to RAM)
State After G3	<ul> <li>State After G3 means after restore power supply.</li> <li>S5 State (Default): If set it as S5 State, it means the system will remain shutdown state</li> <li>S0 State: If set it as S0 State, it means the system will be power on automatically.</li> <li>Last State: If set it as Last State, it means the system will keep State of last setup.</li> </ul>
Wake system from S5	<ul> <li>Disabled: By default, the functions is disabled.</li> <li>Fixed Time: You can use the fixed Time menu to modify the wake time.</li> <li>Dynamic Time: You can set multithreaded to wake system from S5 after enabling Dynamic Time.</li> </ul>

#### 4.2.2 CPU Configuration



The menu	Description	
CPU Configuration		
Boot performance mode	<ul> <li>Max Non-Turbo Performance: the best performance.</li> <li>Max Battery.</li> <li>Turbo performance.</li> </ul>	
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.	
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	<ul><li>Disabled.</li><li>Enabled.</li></ul>	

## 4.2.3 Graphics Configuration



Options	Description	
<b>Graphics Configuration</b>		
	Primary Display options include Auto, IGFX, PEG, PCI, SG mode and The Primary Display is Auto mode by default.	
	Auto: It means the discrete graphics is primary display.	
	IGFX: It means the Intel's integrated graphics is primary display.	
Primary Display	PEG: If Primary Display as PEG mode, it means the discrete graphics is primary display.	
	<ul> <li>PCI: If Primary Display as PCI mode, it means the signal output from PCI interface.</li> </ul>	
	SG: If Primary Display as SG mode, it means that both Intel's integrated graphics and discrete graphics can output signal.	
	It includes Auto, Disabled and Enabled options.	
Internal Cuantias	Auto: Internal Graphics is enabled by default.	
Internal Graphics	Disabled.	
	Enabled.	

#### 4.2.4 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.

## 4.2.5 CSM Configuration

Compatibility Support Module	Configuration	Enable/Disable CSM Support.
CSM Support	[Enabled]	
CSM16 Module Version	07.82	
GateA20 Active	[Upon Request]	
Option ROM Messages	[Force BIOS]	
INT19 Trap Response	[Immediate]	
HDD Connection Order	[Adjust]	
Boot option filter	[UEFI and Legacy]	
Option ROM execution		++: Select Screen
		f4: Select Item
Network	[Do not launch]	Enter: Select
Storage	[Legacy]	+/-: Change Opt.
Video	[Legacy]	F1: General Help
Other PCI devices	[Legacy]	F2: Previous Values
		F9: Optimized Defaults
		F10: Save & Exit
		ESC: Exit

CSM Options	Description	
Compatibility Support Module Configuration		
CSM Support	<ul><li>Enabled: The CSM support function is enable by default.</li><li>Disabled.</li></ul>	
CSM16 Module Version	The Current CMS Version.	
GateA20 Active	<ul><li>Upon Request. (This option is set by default)</li><li>Always.</li></ul>	

Option ROM Messages	<ul><li>Force BIOS. (This option is set by default)</li><li>Keep Current.</li></ul>		
INT19 Trap Response	<ul><li>Immediate (This option is set by default)</li><li>Postponed.</li></ul>		
HDD Connection Order	<ul><li>Adjust. (This option is set by default)</li><li>Keep.</li></ul>		
Boot option filter	<ul> <li>UFEI and Legacy: It will support both UEFI and legacy mode.</li> <li>Legacy only: It only supports legacy mode.</li> <li>UEFI only: It only supports UEFI mode.</li> </ul>		
Option ROM Execution			
Network	<ul> <li>Network ROM Boot.</li> <li>Do not launch: Do not Boot.</li> <li>UEFI: It will support UEFI mode network ROM.</li> <li>Legacy: It will support legacy mode network ROM.</li> </ul>		
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	<ul> <li>Do not launch: Do not Boot.</li> <li>UEFI: It will support UEFI mode PCI ROM.</li> <li>Legacy: It will support Legacy mode PCI ROM.</li> </ul>		



## 4.2.6 HM monitor & Smart Fan.

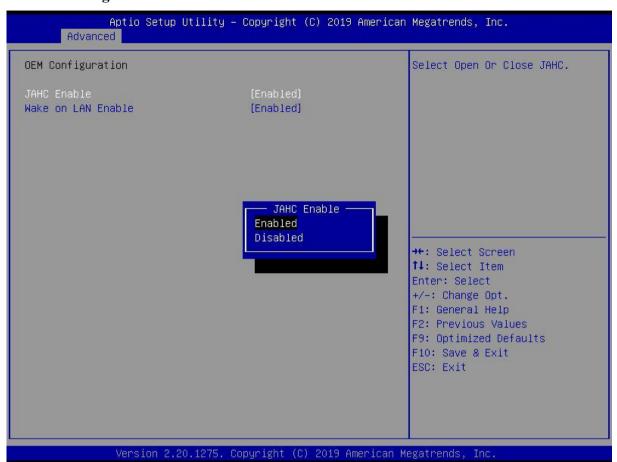
Aptio Setup Utility – Advanced	Copyright (C) 2019 American	Megatrends, Inc.
Pc Health Status		CPU Smart Fan Mode Select
CPU Smart Fan Mode Fan off temperature limit Fan start temperature limit Fan Slope2 start temperature limit Fan start PWM Fan Full Speed Temp Limit PWM slope1 setting PWM slope2 setting	- <del> </del>	
CPU temperature System temperature CPU Fan Speed	: +69 C : +31 C : 4687 RPM	<pre>#: Select Screen f1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save &amp; Exit ESC: Exit</pre>

Version 2.2	20.1275.	Copyright	(C)	2019	American	Megatrends,	Inc.
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Pc Health Menu	Description	
Pc Health Status		
CPU Smart Fan Mode	<ul> <li>It includes "Full on mode", "Smart Fan" and "manual mode".</li> <li>Full on mode.</li> <li>Smart Fan: Smart Fan is enabled by default.</li> <li>Manual Mode.</li> </ul>	
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 Slope2 start temperature limit	It means the second period work temperature.	
Fan start PWM	If the temperature is higher than the FAN start PWM value, the FAN will start work.	
Fan Full Speed Temp limit	If the temperature is higher than the FAN Full Speed temp	

Pc Health Menu	Description		
	limit value, the FAN will work at full speed.		
PWM slope1 setting	<ul> <li>1 PWM</li> <li>2 PWM</li> <li>4 PWM</li> <li>8 PWM</li> </ul>		
PWM slope2 setting	<ul> <li>1 PWM</li> <li>2 PWM</li> <li>4 PWM</li> <li>8 PWM</li> </ul>		
CPU temperature	Current CPU Temperature.		
System temperature	Current System Temperature.		
CPU Fan Speed	Current FAN Speed.		

#### 4.2.7 OEM Configuration



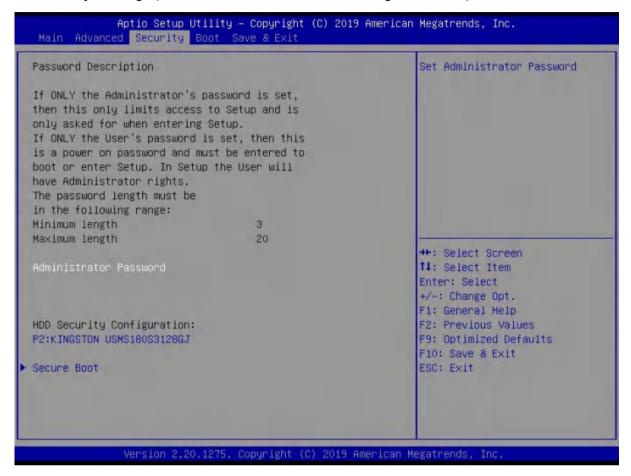
OEM Menu	Functions Description	
OEM Configuration		
JAHC Enabled	JEHE Active Hardware Control (JAHC) management system includes both hardware Micro Control Unit (MCU) and software (JAHC Technology Manager).  Disabled: The JAHC is disable by default.  Enabled.	
Wake on LAN Enable	<ul><li>Wake On LAN Function.</li><li>Disabled: The WOL is disabled by default.</li><li>Enabled.</li></ul>	

#### 4.2.8 System Devices Configuration



Advanced Option	Description	
System Devices Configuration		
SATA Controller(s)	SATA Controller.  Disabled.  Enabled: The SATA controller is enabled by default.	
SATA Mode Selection	<ul> <li>AHCI: AHCI mode.</li> <li>Intel RST Premiun With Intel Optane System Acceleration: IRST mode.</li> </ul>	
HD Audio	High Definition Audio.  Disabled.  Enabled: The HD Audio is enabled by default.	
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.	

### 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 Option #2	The second boot device.	
Boot Option #3	The third boot device.	
<b>Boot Option #4</b>	The fourth boot device.	
<b>Boot Option #5</b>	The fifth boot device.	
Boot Option #6	The sixth boot device.	
Boot Option #7	The seventh boot device.	
Boot Option #8	The eighth boot device.	
Boot Option #9	The ninth boot device.	
Boot Option #10	The tenth boot device.	
Boot Option #11	The eleventh boot device.	
UEFI Hard Disk Drive BBS Priorities	You can set and management UEFI hard device after enabling this option.	
UEFI Application Boot Priorities	You can set and management UEFI hard disk after enabling this option.	
UEFI USB Drive BBS Priorities	You can set and management UEFI USB device after enabling this option.	
Hard Drive BBS Priorities	You can set and management legacy Hard disk device after enabling this option.	
USB Drive BBS Priorities	You can set and management legacy USB device after enabling this option.	

## 4.5 Save&Exit

Aptio Setup Utility – Co Main Advanced Security Boot Save	pyright (C) 2020 American & Exit	Megatrends, Inc.
Save Options Save Changes and Reset Discard Changes and Reset  Restore Defaults  Boot Override Windows Boot Manager (PO: SATA SSD) UEFI: AI Mass Storage, Partition 4 UEFI: Built-in EFI Shell PO: SATA SSD AI Mass Storage AOKO USB3.1Gen2+eSATAO		++: Select Screen  11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Version 2.20.1275. Copy	right (C) 2020 American Me	egatrends, Inc.
Save Exit Item	De	scription
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

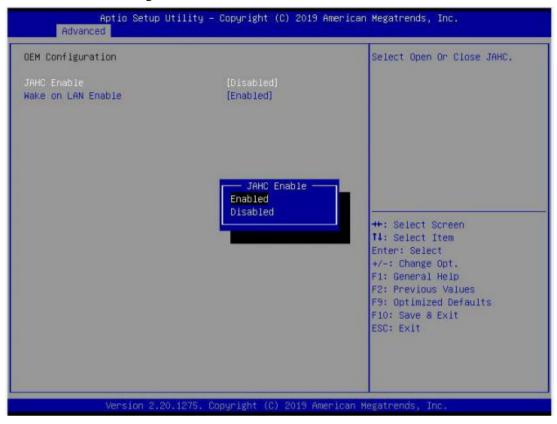
The function of automatically reboot when power on is controlled by hardware. You can enable it by switching the JAHC button to "on".

If you cannot find the physical switch on the player, then you can go into the BIOS to enable it by following steps:

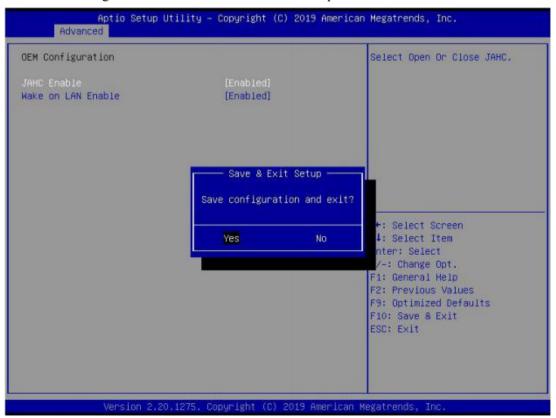
a. Turn on the player and continually press 'Del', then it can enter BIOS setup menu.



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

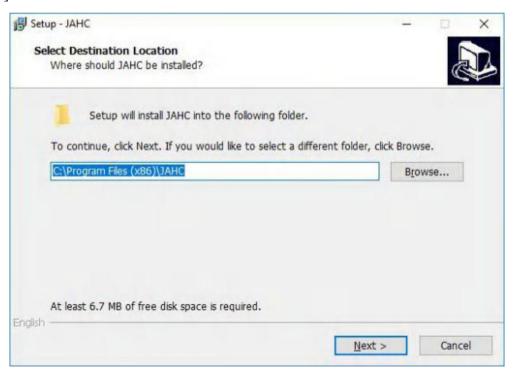
#### **System Requirements:**

- 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.

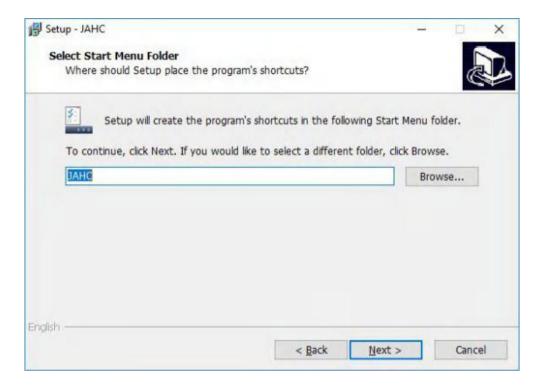
#### How to install JAHC software:

Please download the JAHC.EXE from Giada website: <a href="www.giadatech.com">www.giadatech.com</a>, then follow up below steps:

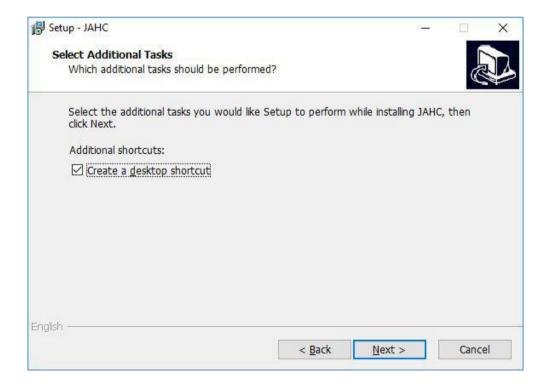
a. Double-click the JAHC.EXE file, the setup wizard will pop up, select destination location and click [Next] button to continue the installation.



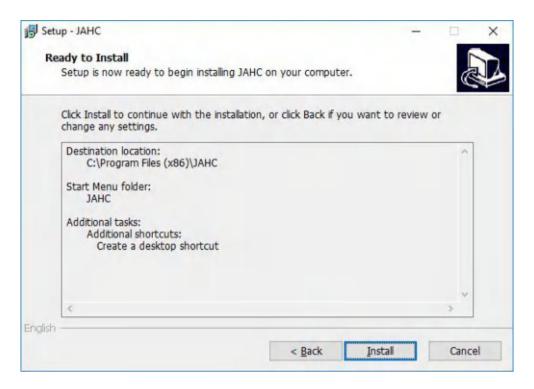
b. Click [Next] button to continue the installation.

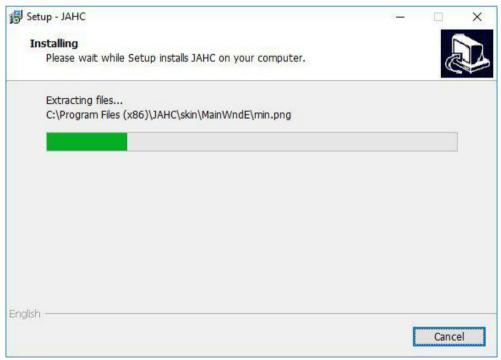


c. Select [Create a desktop shortcut] and click [Next] button.



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.

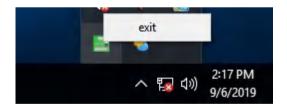


After finishing the setup, the menu window will notice the resume time and shutdown time.

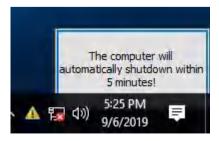
▲ Caution: If the interval from shutdown time to next resume time is less than 3 minutes, the system will not shut down.

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.

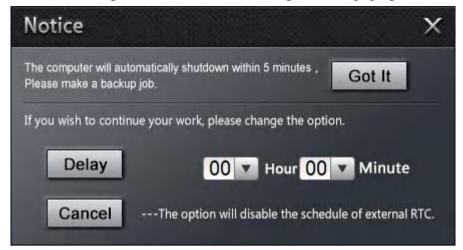
Right click the JAHC icon on taskbar and select [exit] to exit the software.



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.



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