



SR700-X4M-A20X

IP65 MIL-STD-810G RUGGED COMPUTER WITH
INTEL® 9TH GEN COFFEE LAKE XEON® E-2276ML
PROCESSOR, M12 CONNECTOR



User's Manual

Revision Date: May.13.2025

Safety Information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area.
- If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your local distributor.

Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter any technical problems with the product, contact your local distributor

Statement

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- All trademarks are the properties of the respective owners.
- All product specifications are subject to change without prior notice

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Revision History

Revision	Date (yyyy/mm/dd)	Changes
Version 1.0	2019/10/16	Initial release at SR700-X3
Version 1.1	2023/5/11	Update to SR700-X4
Version.2.0	2025/05/13	Update SR700-X4M-A20X

Packing list

☒	SR700-X4M-A20X Rugged Fanless System
☒	CD (Driver)
☐	Testing Cable

Ordering information

Model Number	Description
SR700-X4M-A20X	IP65 MIL-STD-810G Rugged Computer with Intel® 9th Gen Coffee Lake Xeon® E-2276ML Processor, M12 connectors 9V to 36V DC-in, Extended Temp -40 to 60°C



If any of the above items is damaged or missing, please contact your local distributor.

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Chapter 1: Product Introduction

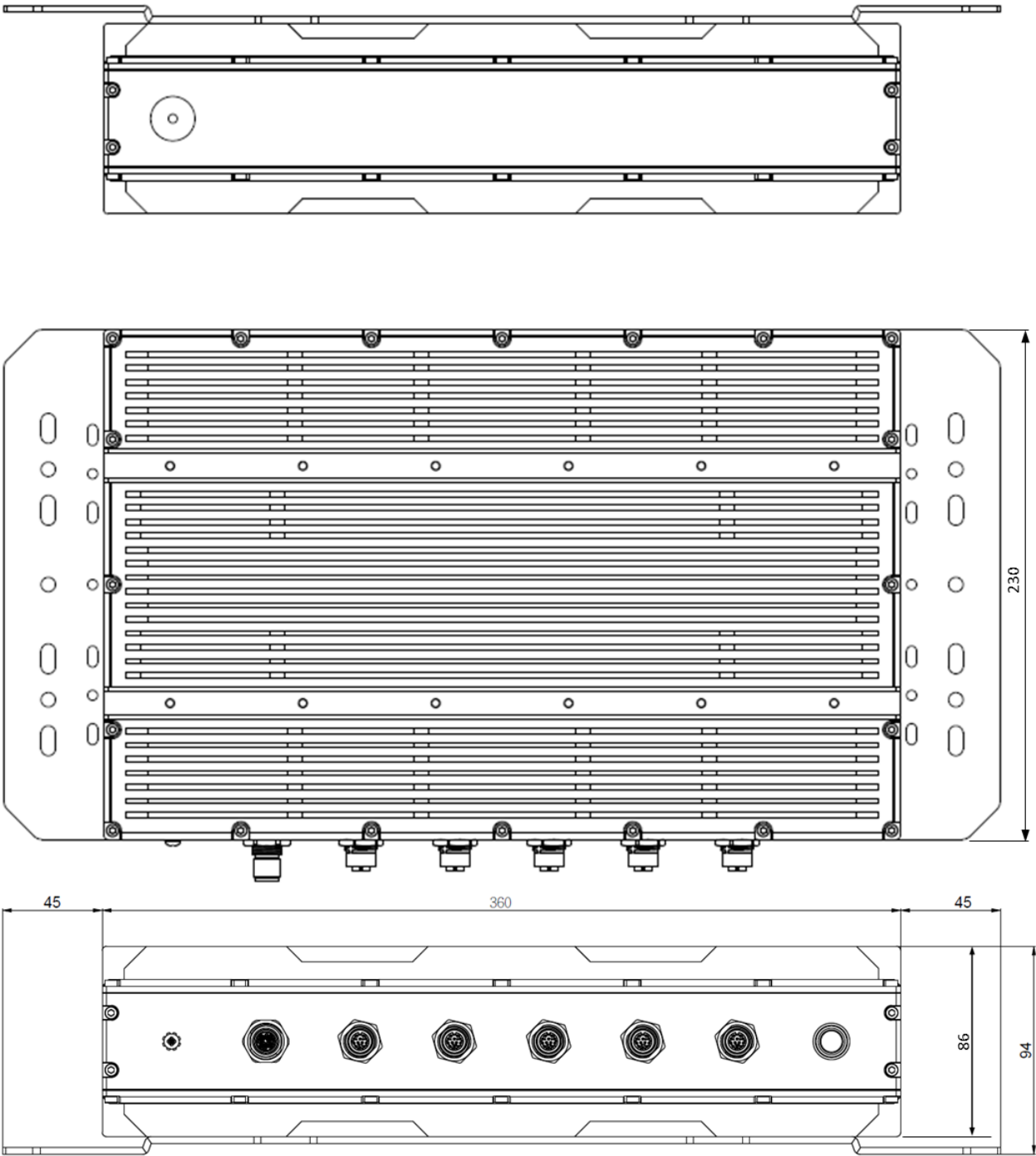
1.1 Key Features

System	
CPU	Intel® 9th Gen Coffee Lake Xeon® E-2276ML Processor
MB	OXY5741B-04
BIOS	AMI UEFI BIOS
Memory Type	1x DDR4 SO-DIMM DDR4 32GB SO-DIMM 2666MHz (Up to 128GB)
Storage Device	1x 2.5" SATA III 2TB SSD
	1x M.2 2280 NVMe 2TB SSD
Front I/O	
Ground Screw	1(M4)
X1	DC-IN with M12 connector
X2	2x USB2.0 with M12 connector
X3	1x GbE LAN with M12 connector
X4	1x GbE LAN with M12 connector
X5	1x RS232/ RS485 with M12 connector
X6	1x VGA with M12 connector
Power Button	1x Power Button with LED light
Mechanical & Environment	
Constructio	Aluminum chassis with fanless design
Power requirement	9V ~ 36V DC-IN
Dimension	360 x 230 x 86mm (W x D x H) , exclude Bracket
Operating Temp.	-40 to 60℃
Storage Temp	-40 to 85℃
Relative Humidity	5% t0 95%, non-condensing
*Specification are subject to change without notice.	

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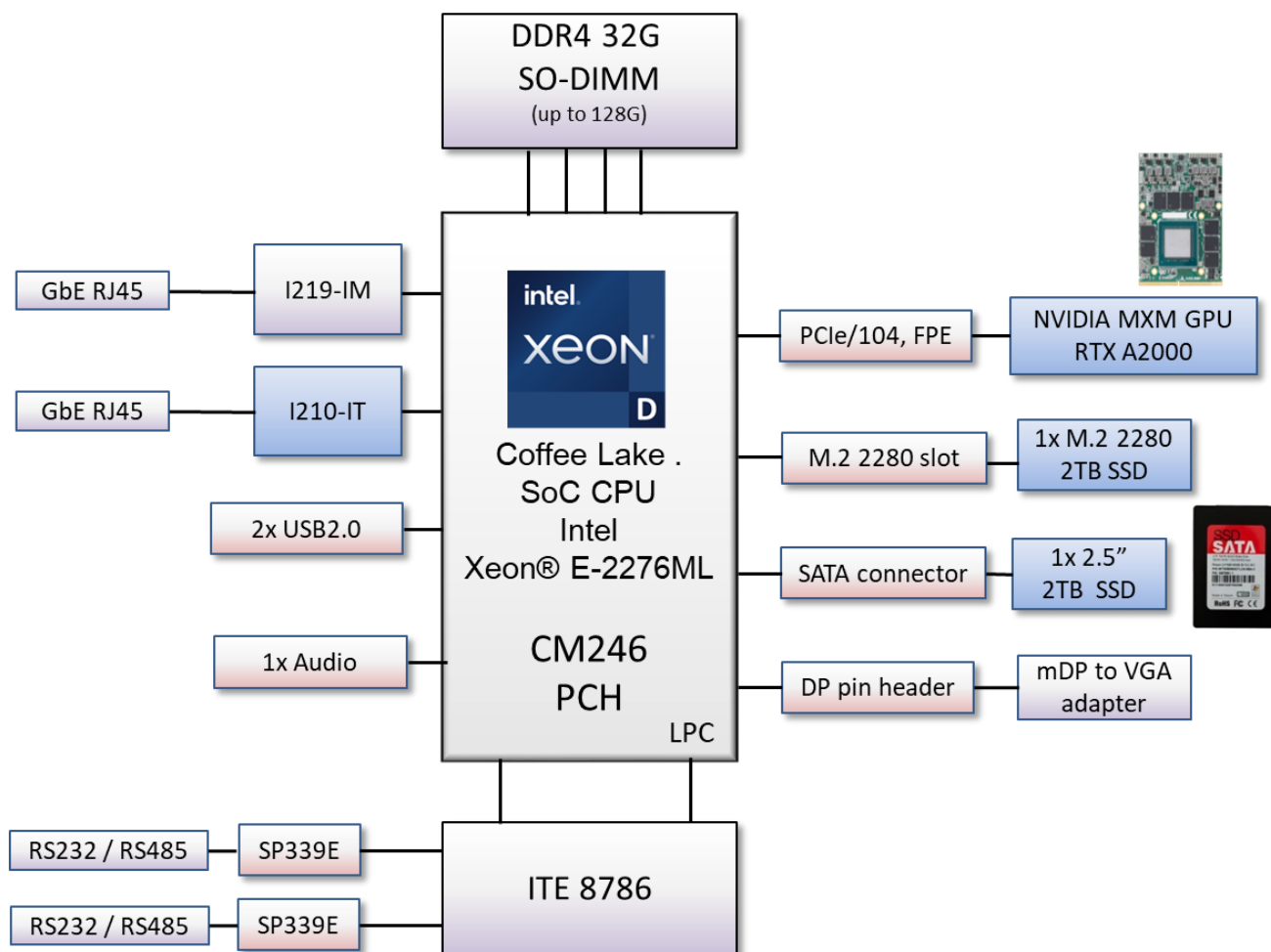
1.2 Dimensions



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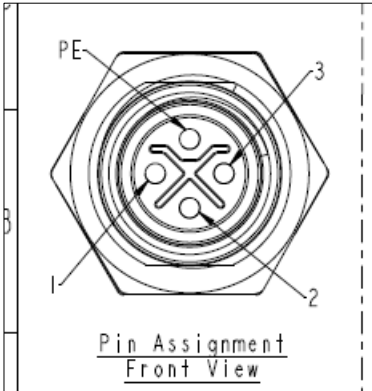
1.3 System Diagram block



Chapter 2: Connector pin definition & Cable

1. X1: DC-IN power with M12 connector:

- CON1
- Amphenol M12S-04MMB-SF8B15



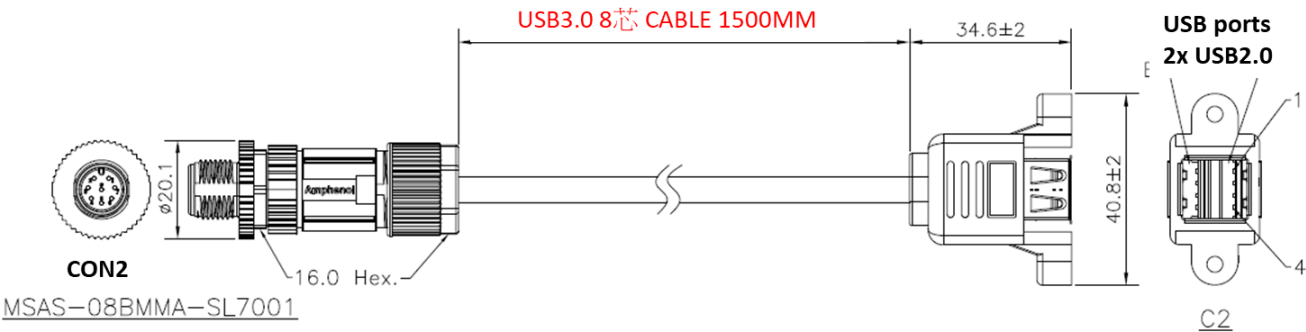
	CON1			
Brown	1/2	➔	TN1	VIN+
Blue	3/PE	➔	TN2	VIN -
PE	Black		黑	
3	Blue		藍	
2	White		白	
1	Brown		棕	
Conn.	Wire Color			
	Pin Out			

2. X2: 2x USB2.0 with M12 connector

- CON1
- Amphenol LTW MSAS-08PFFS-SF8001

X2	CON1	Pin define	Inner con.	CON2	USB-1	USB-2	Color
	1	VCC	10	1	1		Red
	2	D-	9	2	2		White
	3	D+	8	3	3		Green
	4	GND	7	4	4		Black
	5	VCC	5	5		1	Orange
	6	D-	4	6		2	Yellow
	7	D+	3	7		3	Blue
	8	GND	2	8		4	Purple
		Shell	1		Shell	Shell	Black

X2 cable :

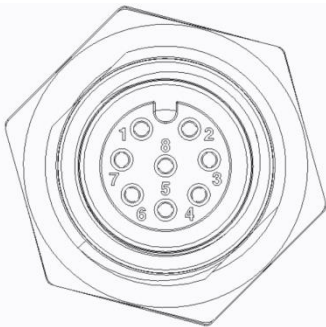


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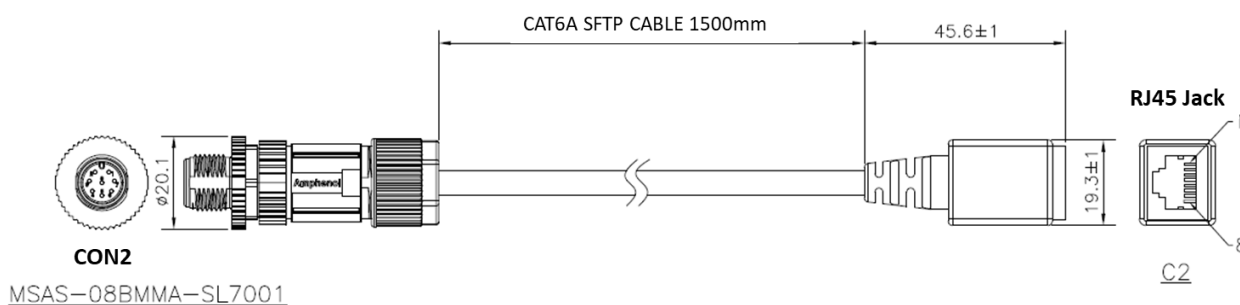
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3. X3/X4: each 1x LAN with M12 connector

- CON1
- Amphenol LTW M12A-08PFFS-SF8001

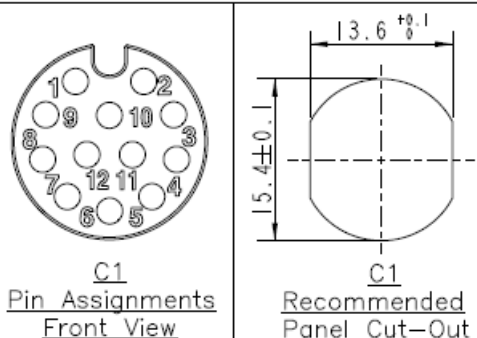
X3,X4	CON1	Pin define	Wire color	CON2	RJ45Jack	Jack wire
	1	D1+	WHITE / ORANGE	1	1	WHITE / ORANGE
	2	D1-	ORANGE	2	2	ORANGE
	3	D2+	WHITE / GREEN	3	3	WHITE / GREEN
	4	D2-	GREEN	4	6	GREEN
	5	D3+	WHITE / BLUE	5	5	WHITE / BLUE
	6	D3-	BLUE	6	4	BLUE
	7	D4+	WHITE / BROWN	7	7	WHITE / BROWN
	8	D4-	BROWN	8	8	BROWN
		Shell		Shell	Shell	

X3/X4 cable:



4. X5: 1x RS232/485 with M12 connector

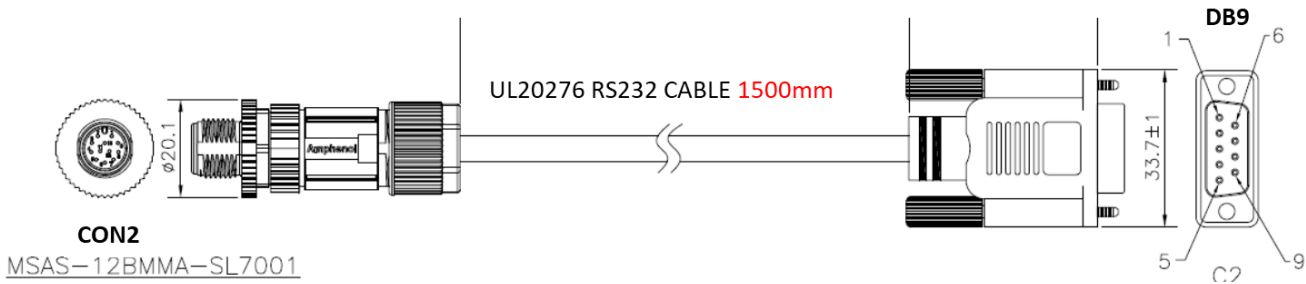
- CON1
- Amphenol LTW MSAS-12PFFS-SF8001

X5	CON1	Pin define	Inner wire	CON2	DB9
 C1 Pin Assignments Front View C1 Recommended Panel Cut-Out	1	DCD	Black	1	1
	2	RXD	Brown	2	2
	3	TXD	Red	3	3
	4	DTR	Orange	4	4
	5	GND	Yellow	5	5
	6	DSR	Green	6	6
	7	RTS	Blue	7	7
	8	CTS	Purple	8	8
	9	RI	Grey	9	9
	10	N.C.		10	
	11	N.C.		11	
	12	N.C.		12	
	Shell			Shell	

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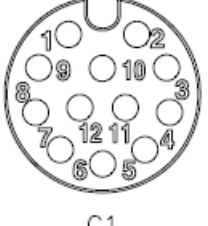
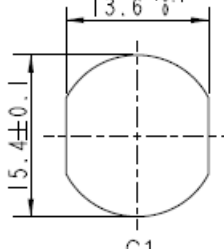
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X5 cable:

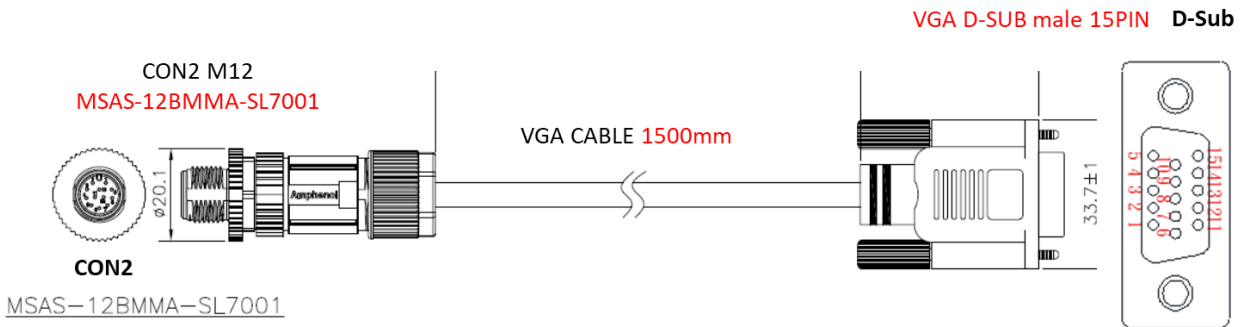


5. X6: ax VGA with M12 connector

- CON1
- Amphenol LTW MSAS-12PFFS-SF8001

X6		Cable color		CON1	VGA define	CON2	D-sub
 C1 Pin Assignments Front View	 C1 Recommended Panel Cut-Out	VGA	Red	1	Red	1	1
		Cable RGB wires	Green	2	Green	2	2
			Blue	3	Blue	3	3
			Black	4	RGB GND	4	6,7,8
			Orange	5	5V	5	9
			Brown	6	Reserved	6	11
			Blue	7	SDA	7	12
			Yellow	8	H-sync	8	13
			Green	9	V-sync	9	14
			Red	10	SCL	10	15
			Black	11	GND	11	5
				12		12	N.C.
				Shell		Shell	Shell

X6 cable:



Chapter 3: AMI BIOS UTILITY

This chapter provides users with detailed descriptions on how to set up a basic system configuration through the AMI BIOS setup utility.

3.1 Starting

To enter the setup screens, perform the following steps:

- Turn on the computer and press the key immediately.
- After the key is pressed, the main BIOS setup menu displays. Other setup screens can be accessed from the main BIOS setup menu, such as the Chipset and Power menus.

3.2 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.

Some of the hot keys are <F1>, <F10>, <Enter>, <ESC>, and <Arrow> keys.

Left/Right	The Left and Right <Arrow> keys moves the cursor to select a menu.
Up/Down	The Up and Down <Arrow> keys moves the cursor to select a setup screen or sub-screen.
+– Plus/Minus	The Plus and Minus <Arrow> keys changes the field value of a particular setup setting.
Tab	The <Tab> key selects the setup fields.
F1	The <F1> key displays the General Help screen.
F10	The <F10> key saves any changes made and exits the BIOS setup utility.
Esc	The <Esc> key discards any changes made and exits the BIOS setup utility.
Enter	The <Enter> key displays a sub-screen or changes a selected or highlighted option in each menu.

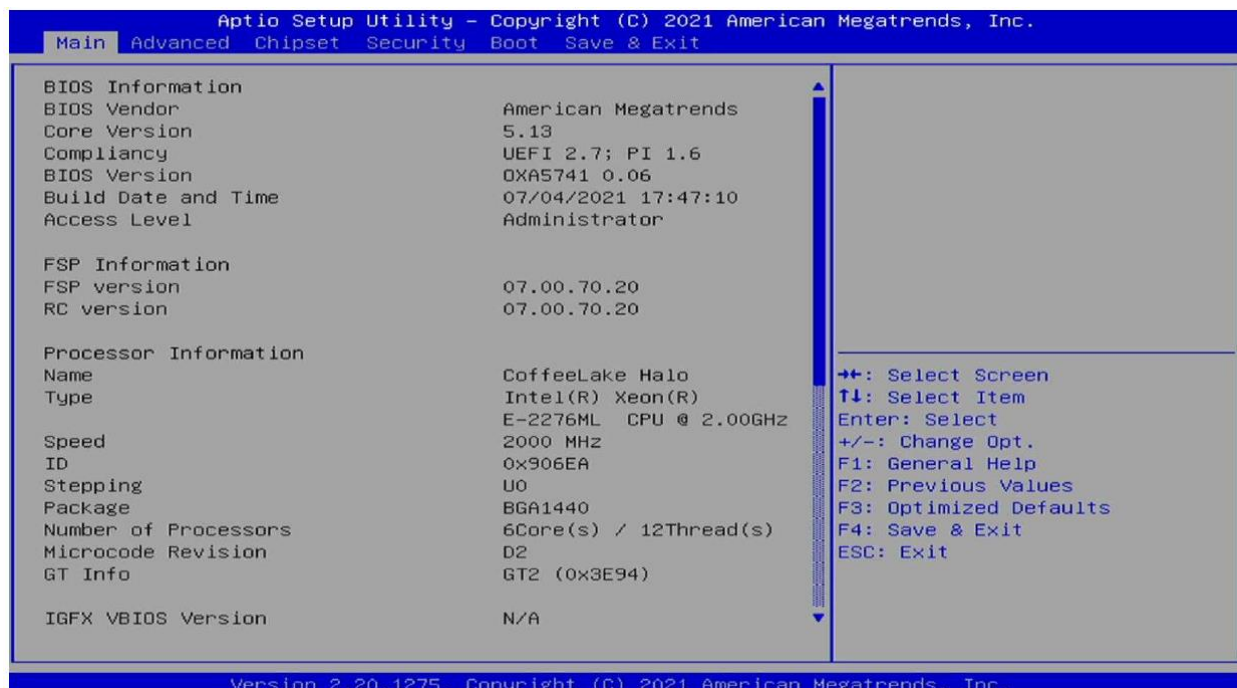
3.3 Main Menu

The Main menu is the screen that first displays when BIOS Setup is entered, unless an error has occurred.

When you first enter the BIOS Setup Utility, you will encounter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section. The Main BIOS Setup screen is shown below.

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The Main BIOS setup screen has two main frames. The left frame displays all the options that can be configured. Grayed-out options cannot be configured; options in blue can. The right frame displays the key legend. Above the key legend is an area reserved for a text message. When an option is selected in the left frame, it is highlighted in white. Often a text message will accompany it.

● System Date

Use this function to change the system date.

Select System Date using the Up and Down <Arrow> keys. Enter the new values through the keyboard. Press the Left and Right <Arrow> keys to move between fields.

The date setting must be entered in MM/DD/YY format.

● System Time

Use this function to change the system time.

Select System Time using the Up and Down <Arrow> keys. Enter the new values through the keyboard. Press the Left and Right <Arrow> keys to move between fields.

The time setting is entered in HH:MM:SS format.

Note: The time is in 24-hour format. For example, 5:30 A.M. appears as 05:30:00, and 5:30 P.M. as 17:30:00.

● Access Level

Display the access level of the current user in the BIOS.

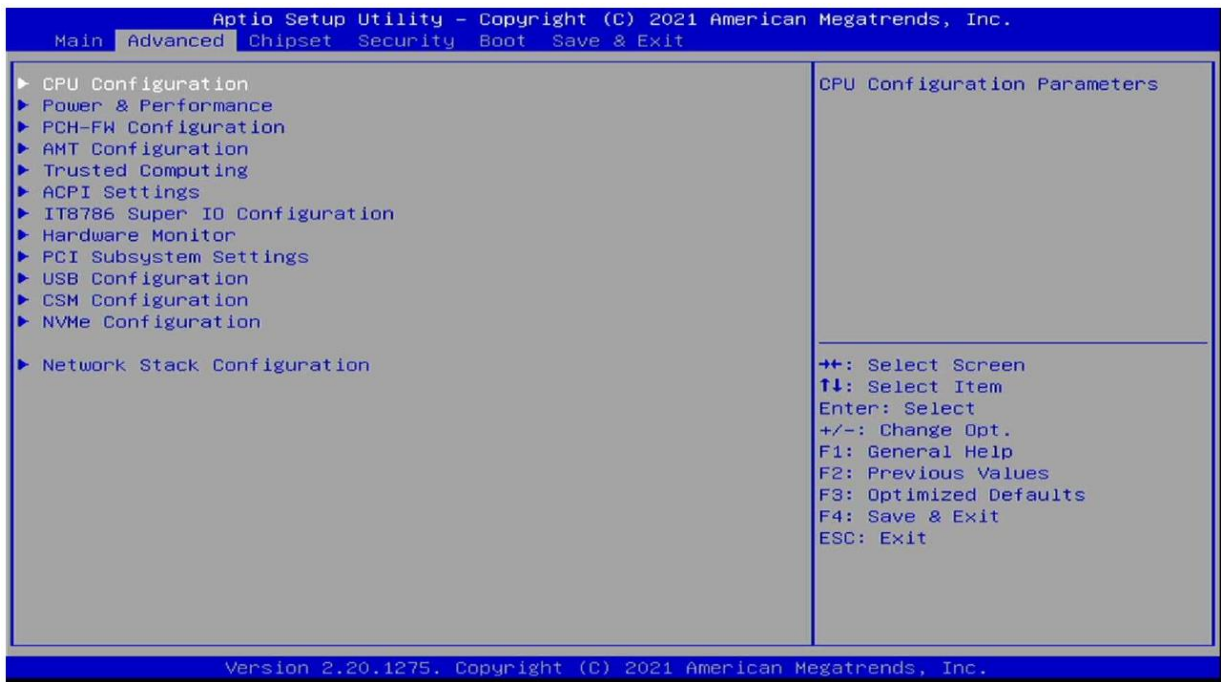
3.4 Advanced Menu

The Advanced Menu allows you to configure your system for basic operation. Some entries are defaults required by the system board, while others, if enabled, will improve the performance of your system or let you set some features according to your preference.

Setting incorrect field values may cause the system to malfunction.

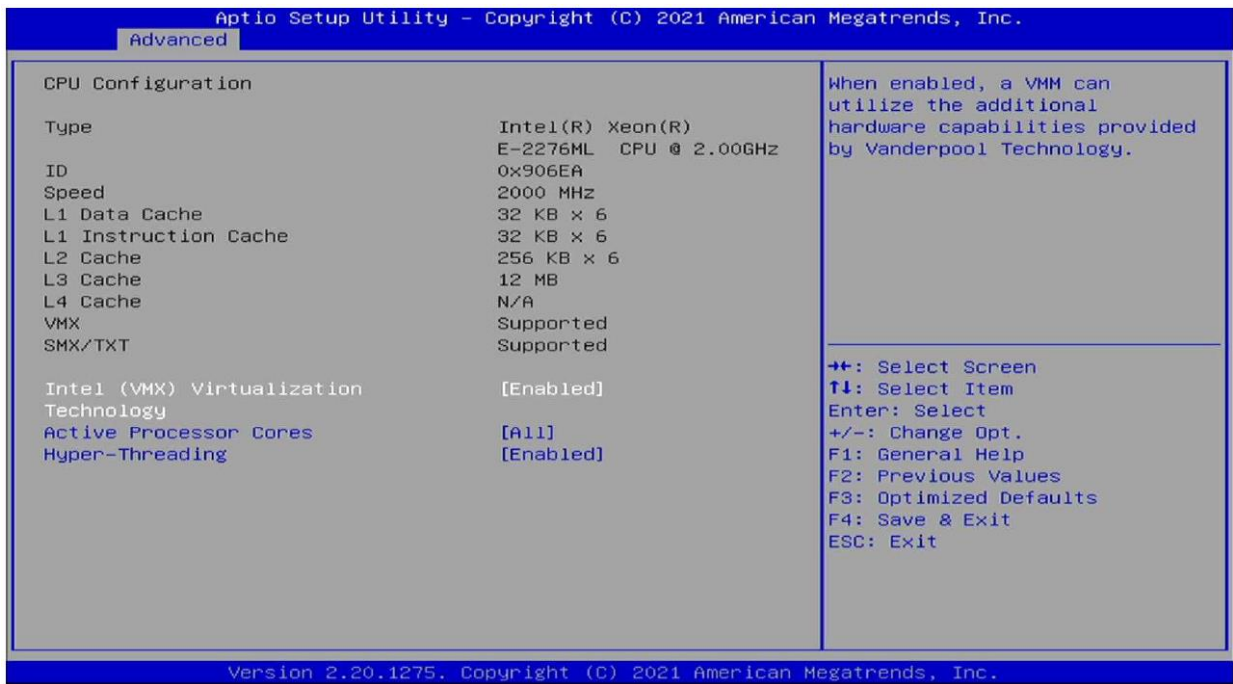
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3.4.1 CPU Configuration

This section is used to view CPU status and configure CPU parameters.



Field Name	Intel(VMX) Virtualization Technology
Default Value	[Enabled]
Possible Value	Disabled Enabled
Field Name	Active Processor Cores
Default Value	[A11]

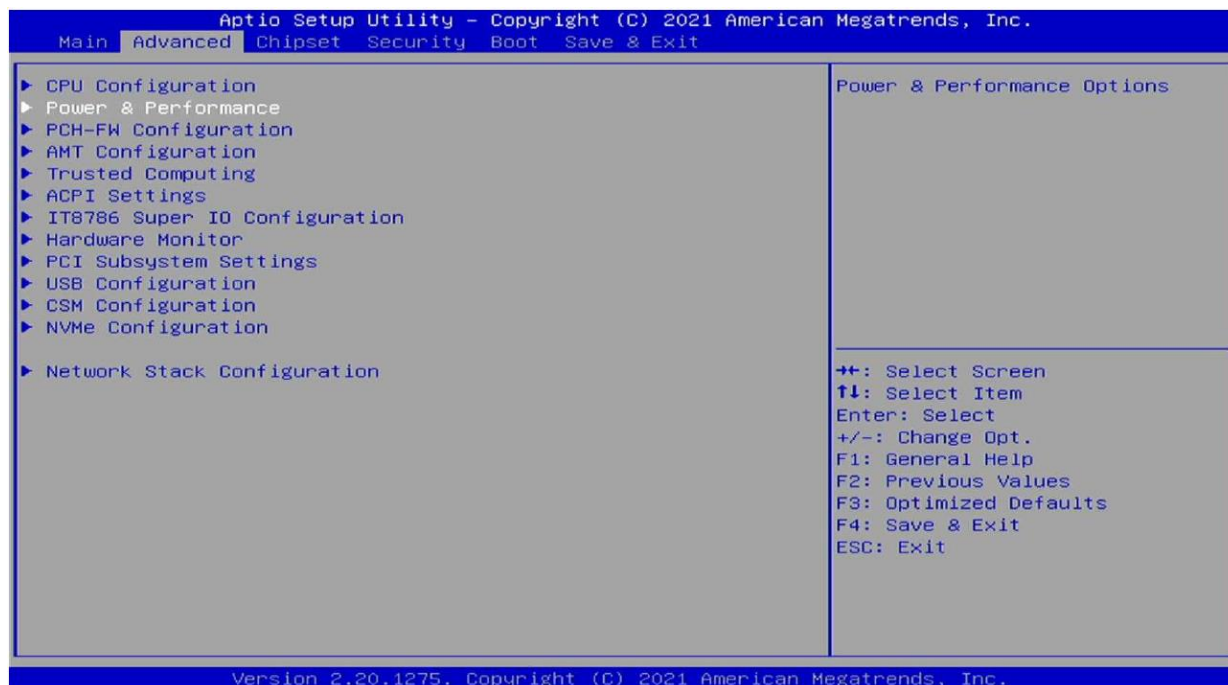
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Possible Value	A11 1 2 3 4 5
----------------	------------------------------

Field Name	Hyper-Threading
Default Value	[Enabled]
Possible Value	Disabled Enabled

3.4.2 Power & Performance



Field Name	Intel® SpeedStep™
Default Value	[Enabled]
Possible Value	Disabled Enabled

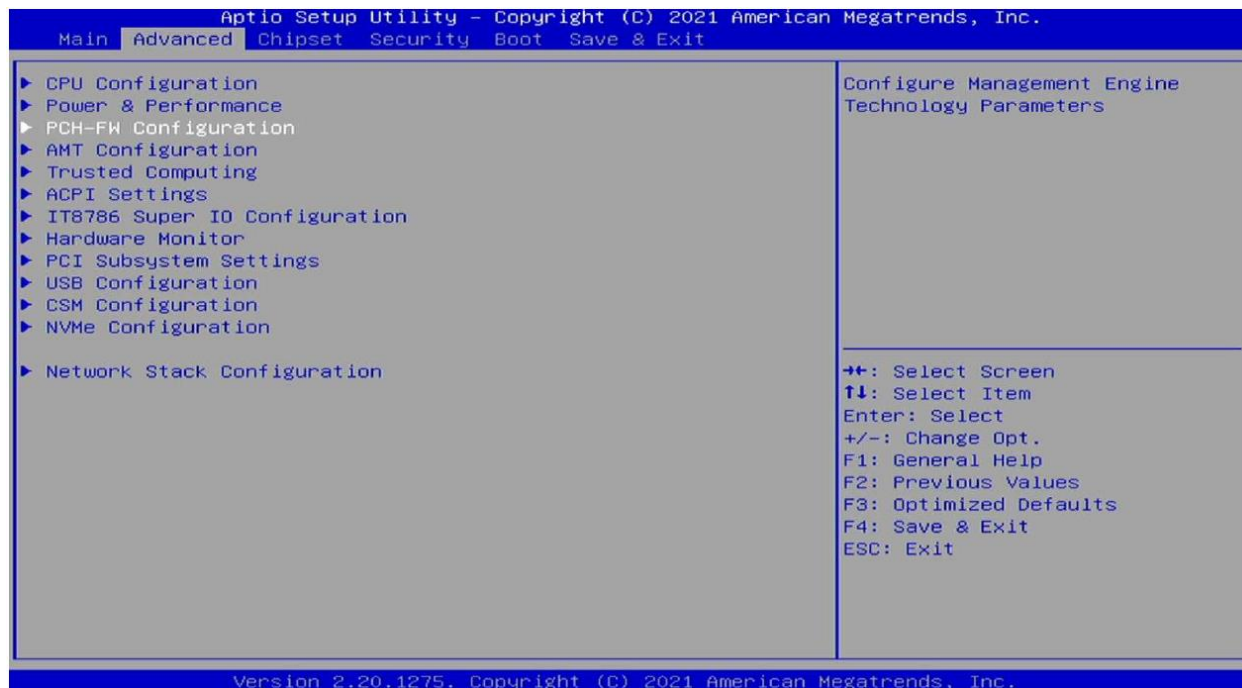
Field Name	Turbo Mode
Default Value	[Enabled]
Possible Value	Disabled Enabled
Field Name	C States
Default Value	[Disabled]
Possible Value	Disabled

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	Enabled
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3.4.3 PCH-FW Configuration



Field Name	ME State
Default Value	[Enabled]
Possible Value	Disabled Enabled

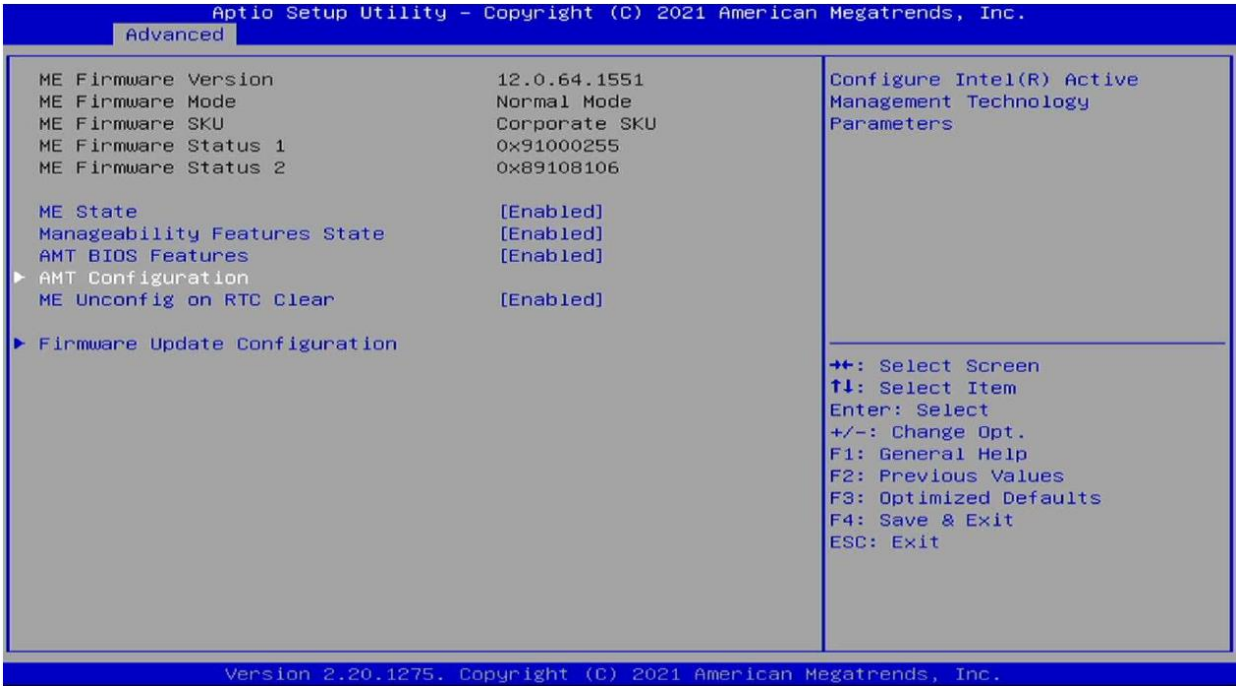
Field Name	Manageability Feature State
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	AMT BIOS Features
Default Value	[Enabled]
Possible Value	Disabled Enabled

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3.4.4 AMT Configuration



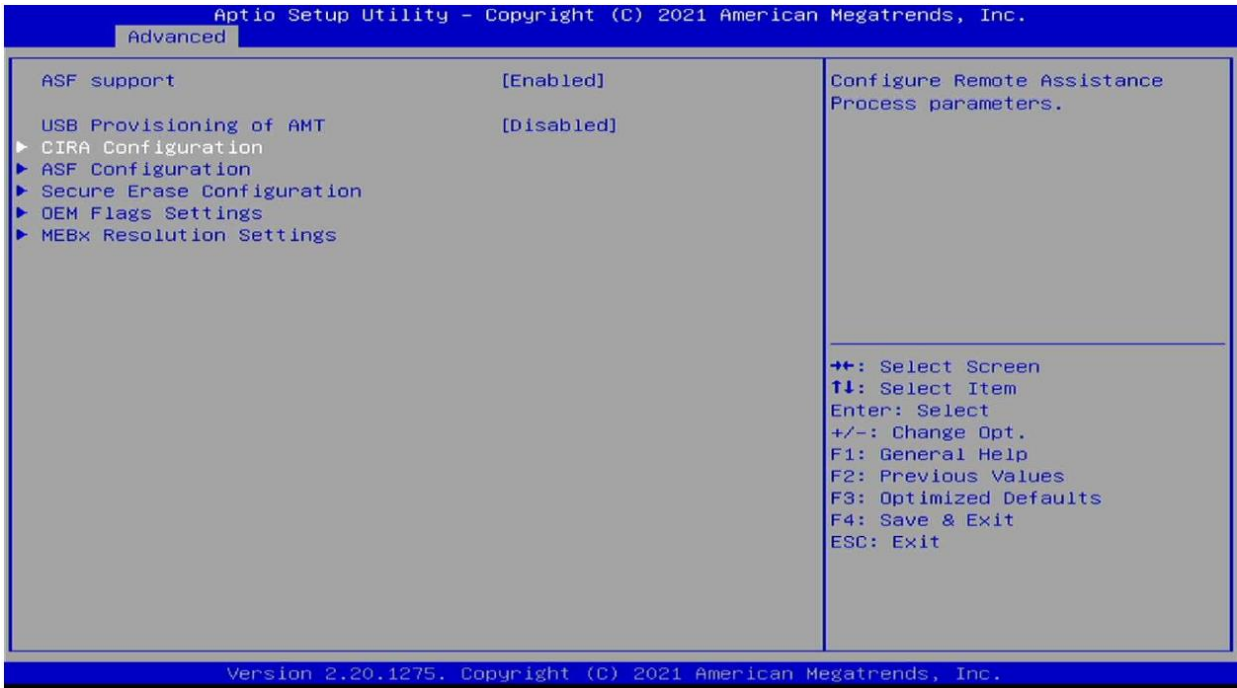
Field Name	ASF support
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	USB Provisioning of AMT
Default Value	[Disabled]
Possible Value	Disabled Enabled

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3.4.4.1 CIRA Configuration

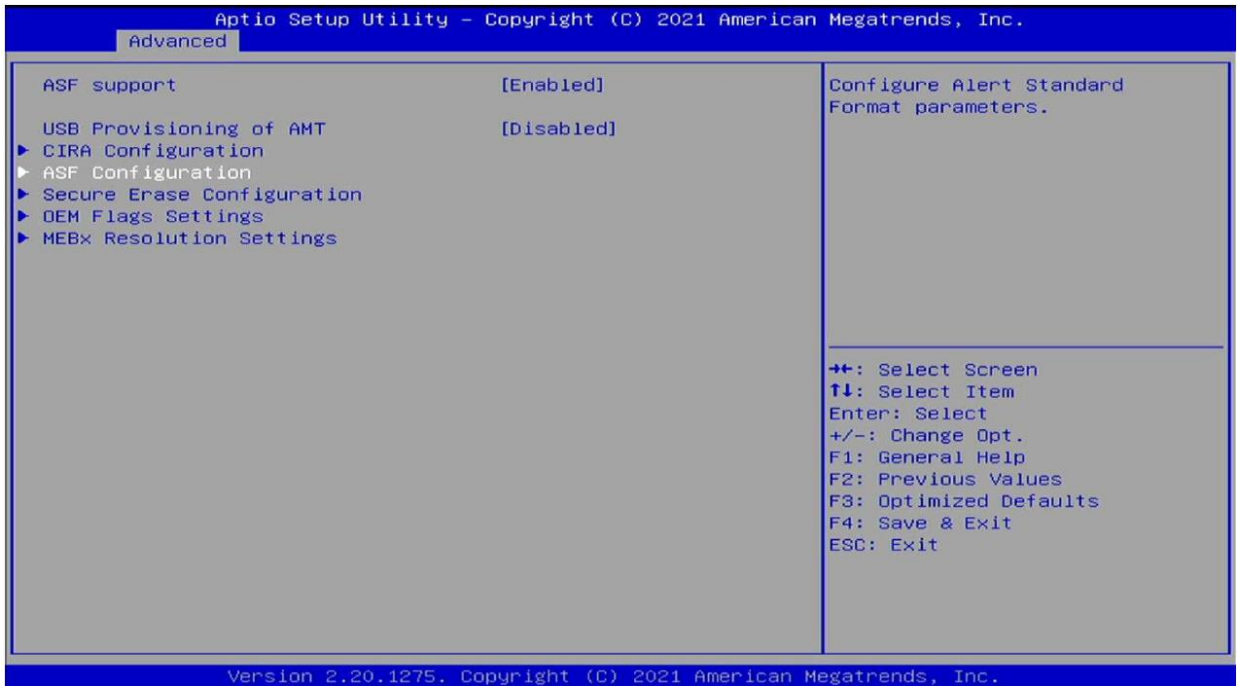


Field Name	ASF support
Default Value	[Enabled]
Possible Value	Disabled Enabled

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3.4.4.2 ASF Configuration

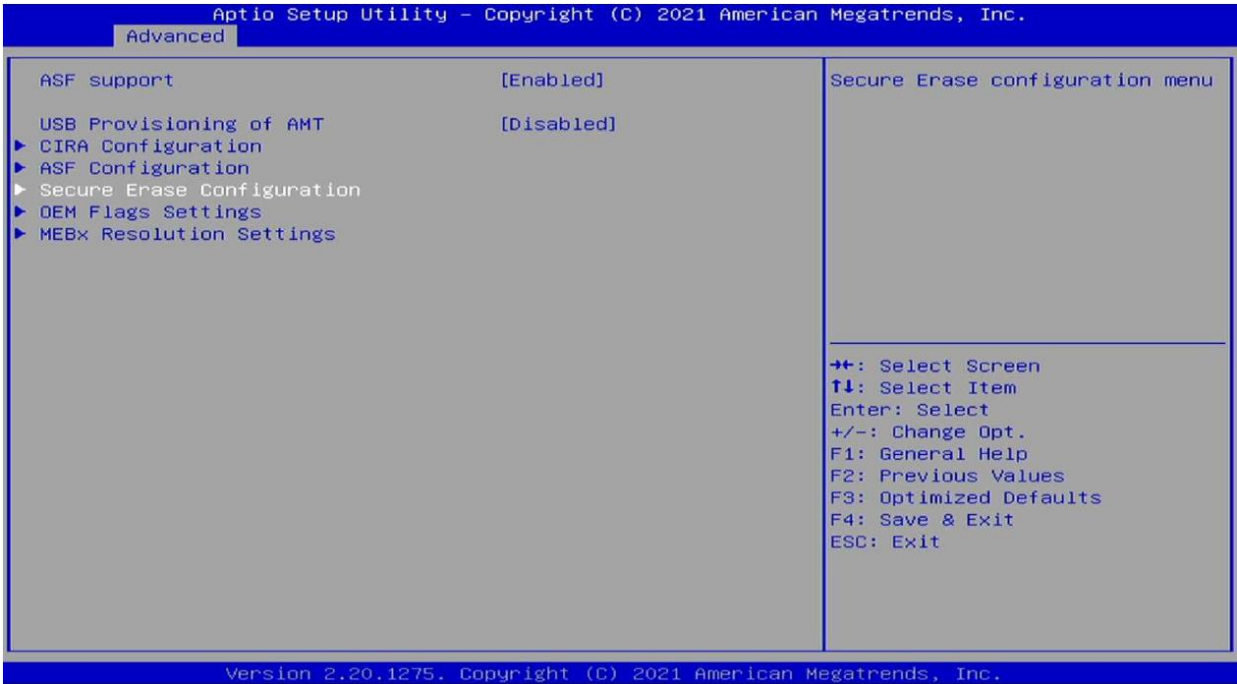


Field Name	PET Progress
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	WatchDog
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	ASF Sensors Table
Default Value	[Disabled]
Possible Value	Disabled Enabled

3.4.4.3 Secure Erase Configuration



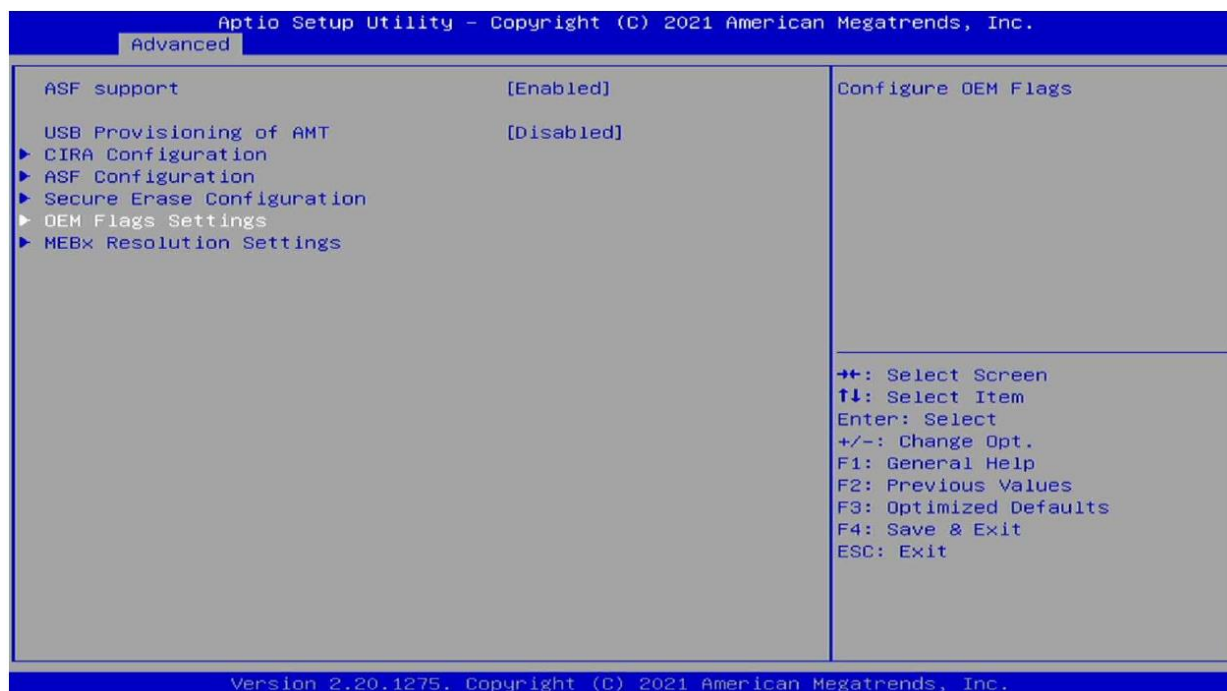
Field Name	Secure Erase mode
Default Value	[Simulated]
Possible Value	Simulated Real

Field Name	Force Secure Erase
Default Value	[Disabled]
Possible Value	Disabled Enabled

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3.4.4.4 OEM Flags Settings



Field Name	MEBx hotkey Pressed
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	MEBx Selection Screen
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	Hide Unconfigure ME Confirmation Prompt
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	MEBx OEM Debug Menu Enable
Default Value	[Disabled]
Possible Value	Disabled Enabled

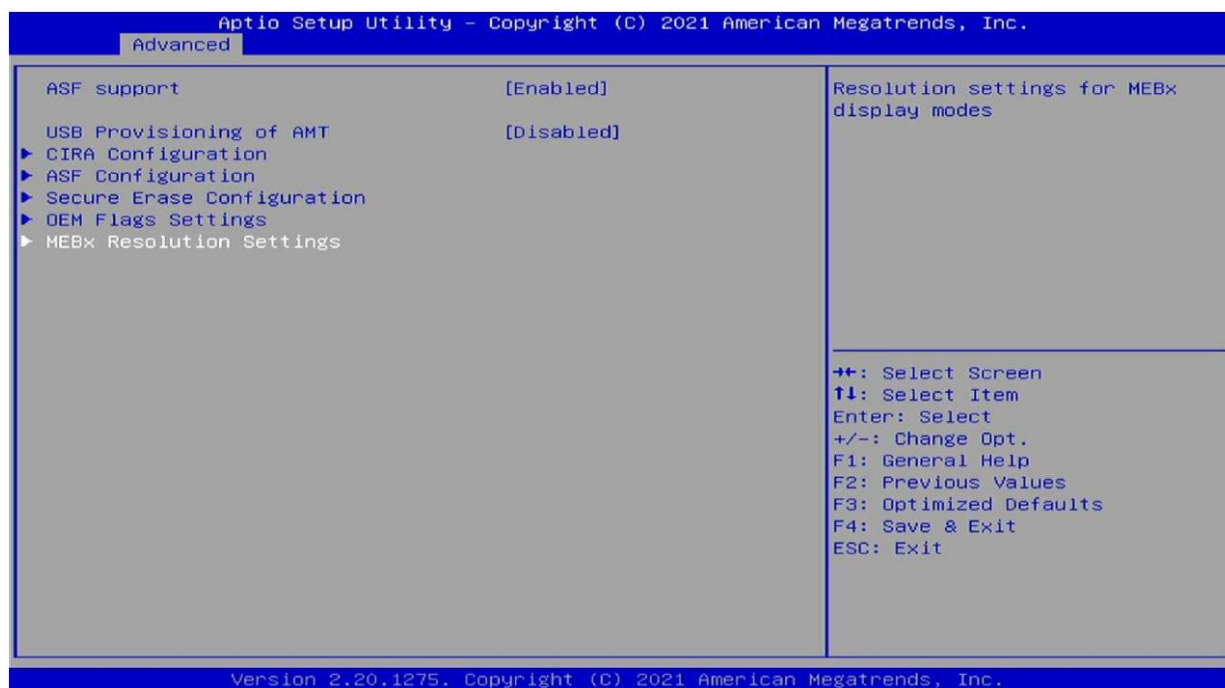
Field Name	Unconfigure ME
Default Value	[Disabled]

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Possible Value	Disabled Enabled
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3.4.4.5 MEBx Resolution Settings



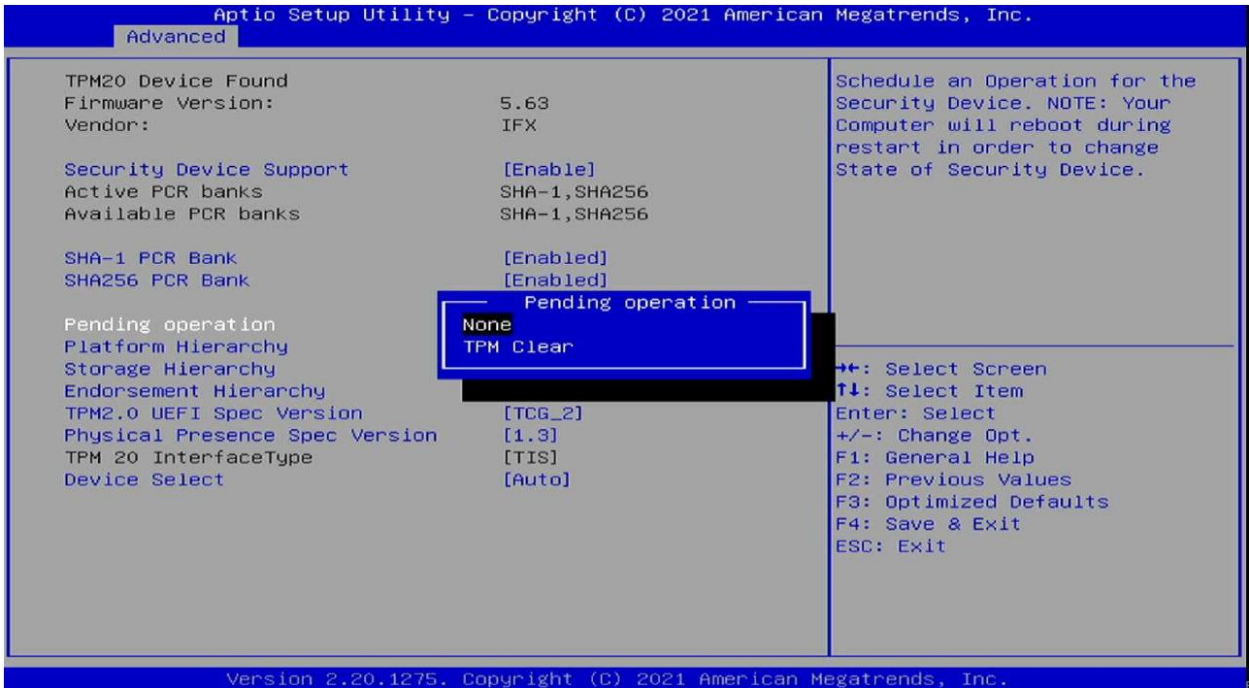
Field Name	Non-UI Mode Resolution
Default Value	[Auto]
Possible Value	Auto 80x25 100x31

Field Name	UI Mode Resolution
Default Value	[Auto]
Possible Value	Auto 80x25 100x31

Field Name	Graphics Mode Resolution
Default Value	[Auto]
Possible Value	Auto 640x480 800x600 1024x768

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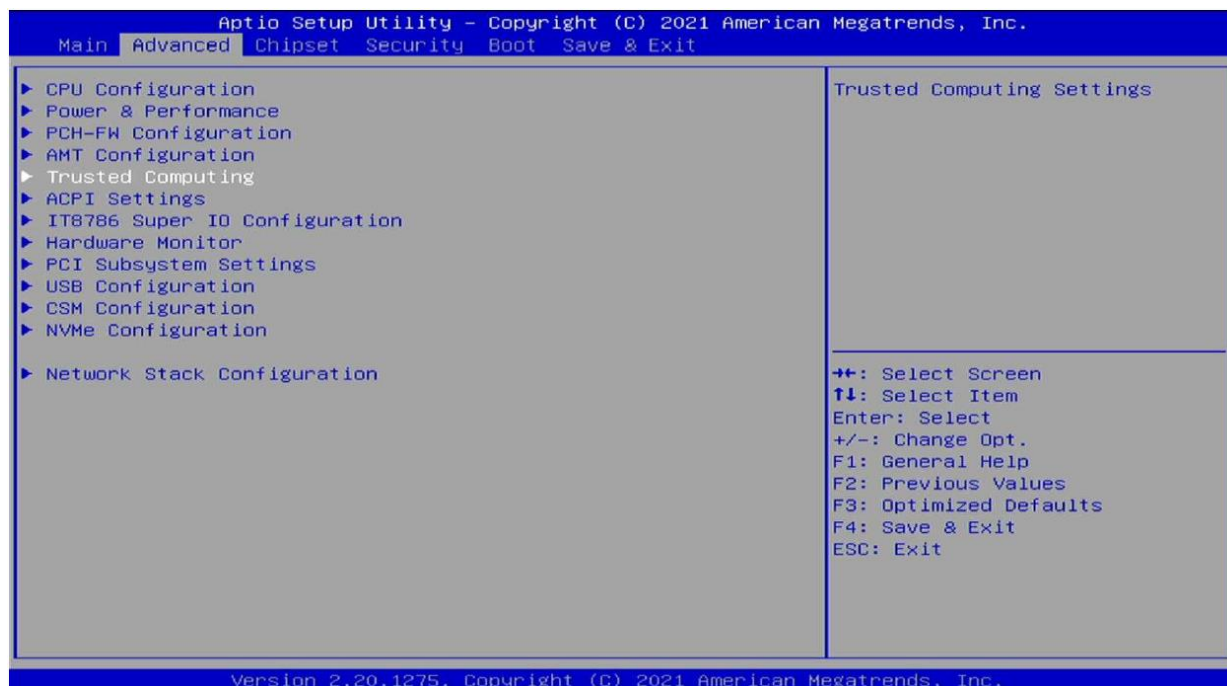


Field Name	Pending operation
Default Value	[None]
Possible Value	None TPM Clear

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3.4.5 Trusted Computing



Field Name	Security Device Support
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	SHA-1 PCR Bank
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	SHA256 PCR Bank
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	Pending operation
Default Value	[None]
Possible Value	None TPM Clear

Field Name	Platform Hierarchy
------------	--------------------

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Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	Storage Hierarchy
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	Endorsement Hierarchy
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	TPM2.0 UEFI Spec Version
Default Value	[TCG_2]
Possible Value	TCG_1_2 TCG_2

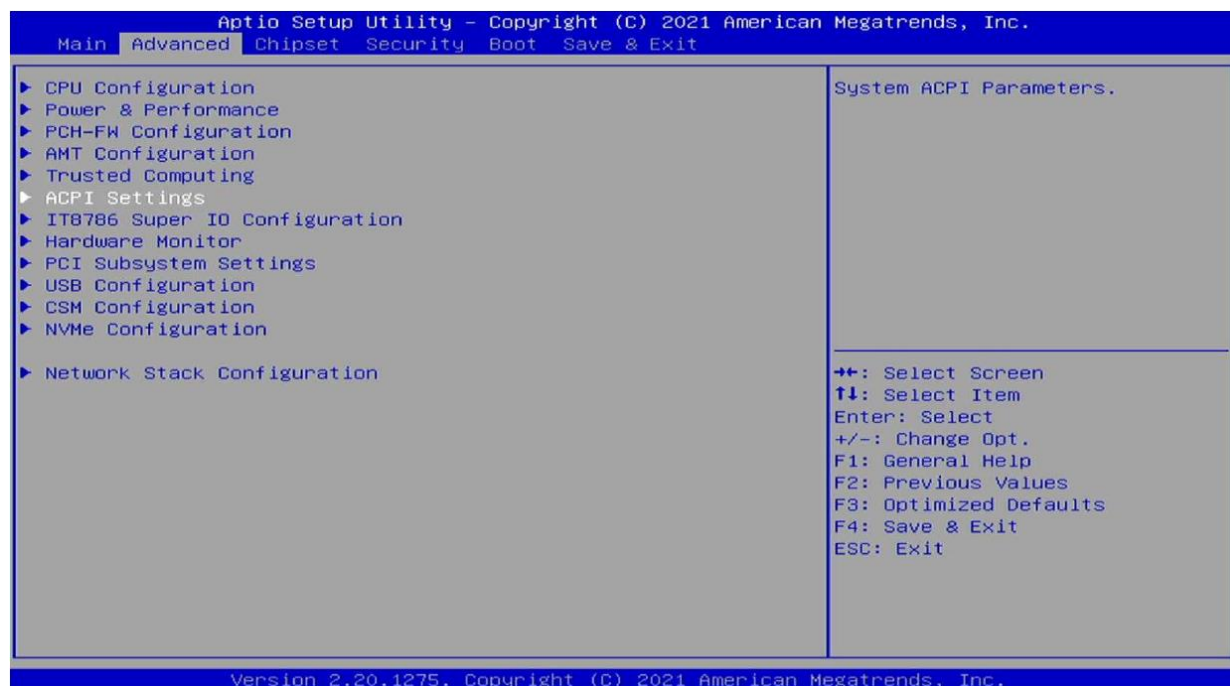
Field Name	Physical Presence Spec Version
Default Value	[1.3]
Possible Value	1.2 1.3

Field Name	Device Select
Default Value	[Auto]
Possible Value	TPM 1.2 TPM 2.0 Auto

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3.4.6 ACPI Setting



Field Name	Enable ACPI Auto Configuration
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	Enable Hibernation
Default Value	[Enabled]
Possible Value	Disabled Enabled

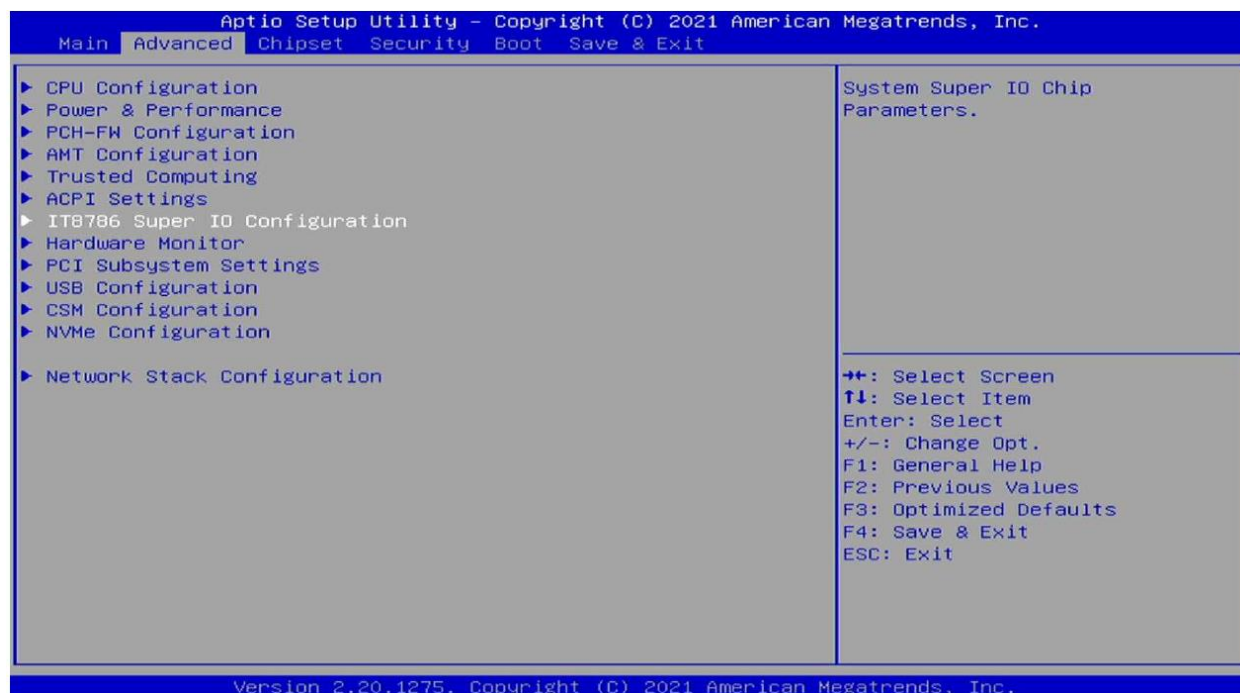
Field Name	ACPI Sleep State
Default Value	[S3(Suspend to RAM)]
Possible Value	Suspend Disabled S3(Suspend to RAM)

Field Name	Lock Legacy Resources
Default Value	[Disabled]
Possible Value	Disabled Enabled

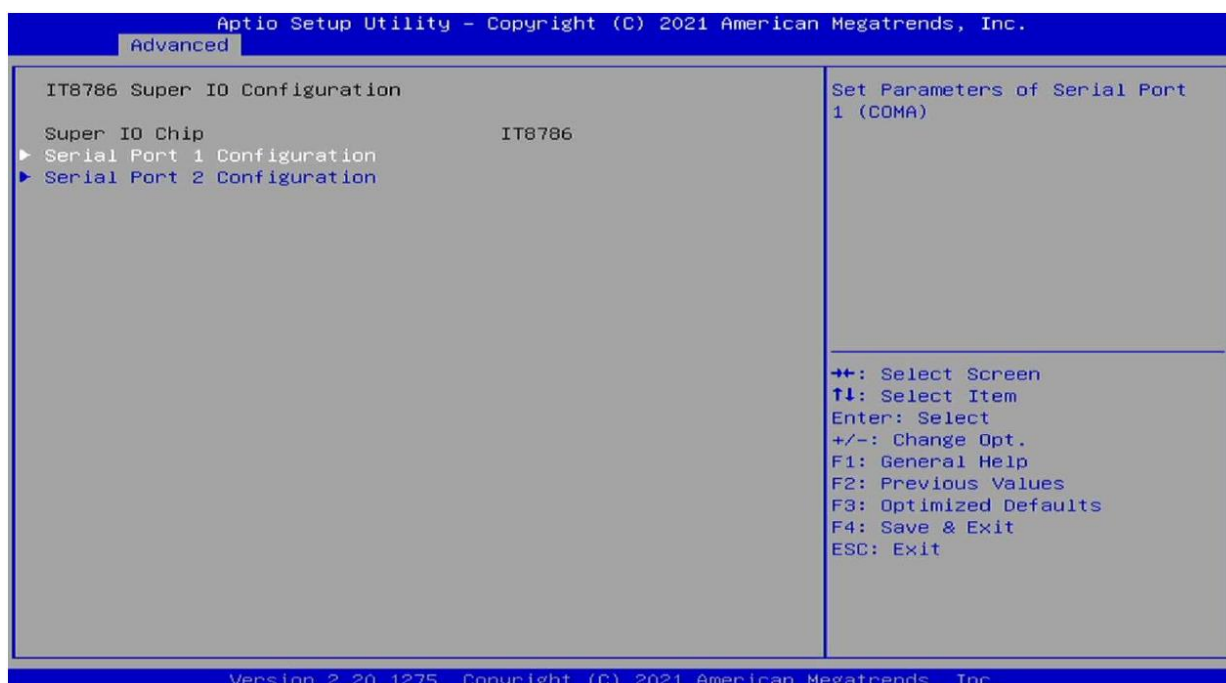
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3.4.7 IT8786 Super IO Configuration



3.4.7.1 Serial Port 1 Configuration



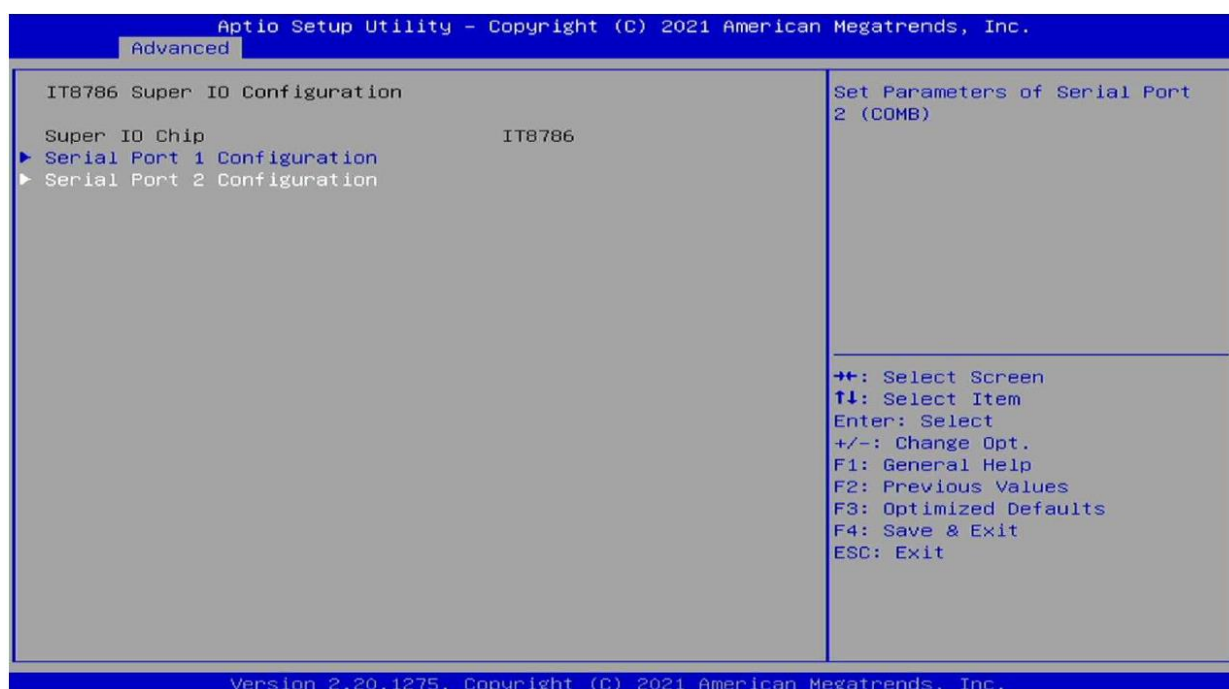
Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled Enabled
Field Name	COM1 Control

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Default Value	[RS232]
Possible Value	Loopback RS-232 RS-485 Half Duplex RS-485/422 Full Duplex

3.4.7.2 Serial Port 2 Configuration



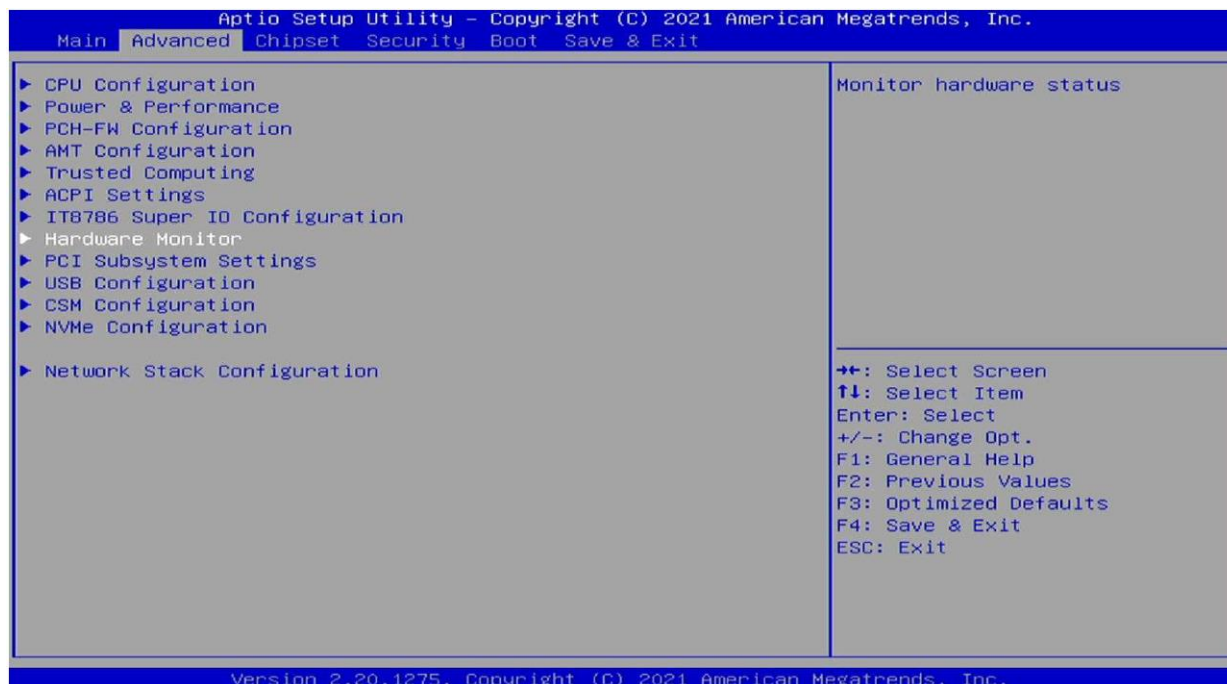
Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	COM1 Control
Default Value	[RS232]
Possible Value	Loopback RS-232 RS-485 Half Duplex RS-485/422 Full Duplex

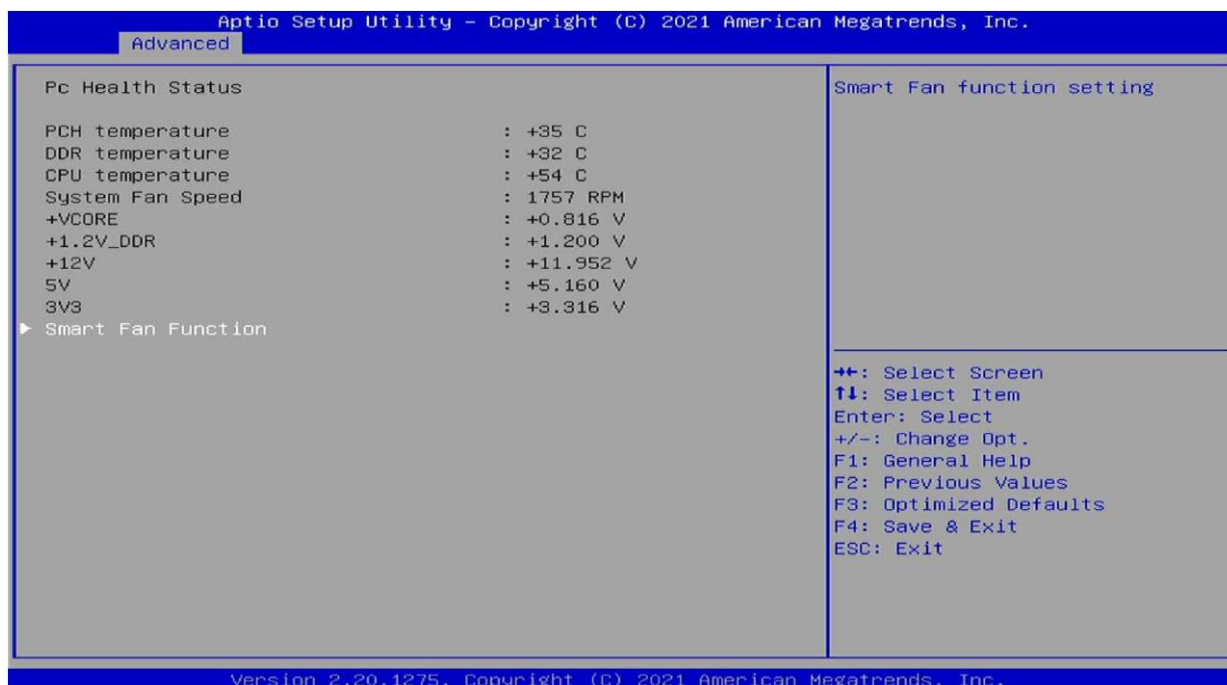
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3.4.8 Hardware Monitor



3.4.8.1 Smart Fan Function



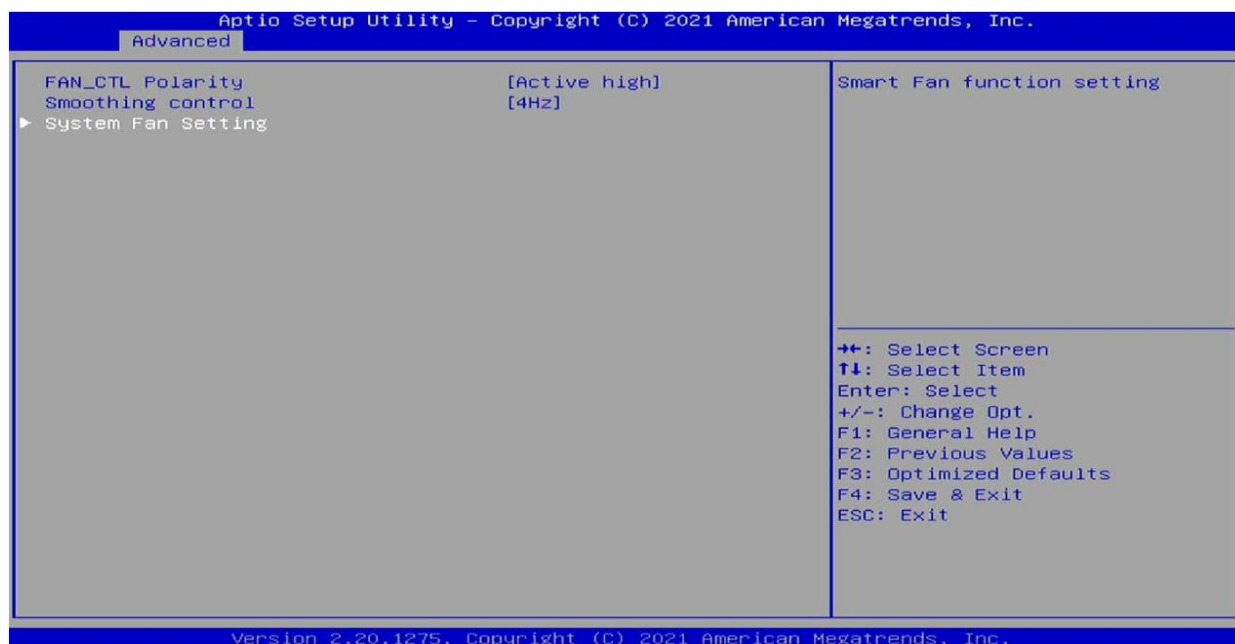
Field Name	FAN_CTL Polarity
Default Value	[Active high]
Possible Value	Active low Active high
Field Name	Smoothing control

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Default Value	[4Hz]
Possible Value	1Hz 16Hz 8Hz 4Hz

3.4.8.2 System Fan Setting



Field Name	Smart Fan Mode
Default Value	[Automatic Mode]
Possible Value	Software Mode Automatic Mode

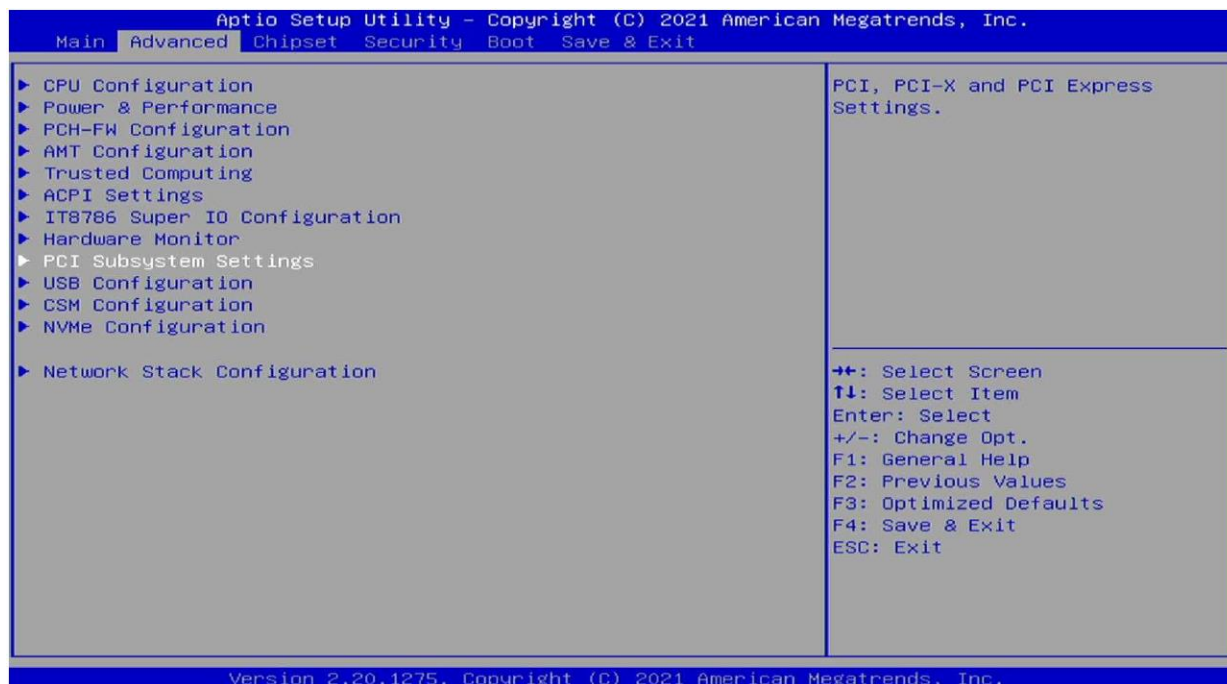
Field Name	System Fan Type
Default Value	[PWM]
Possible Value	PWM RPM

Field Name	Temperature Select
Default Value	[TMP IN3]
Possible Value	TMP IN1 TMP IN2 TMP IN3

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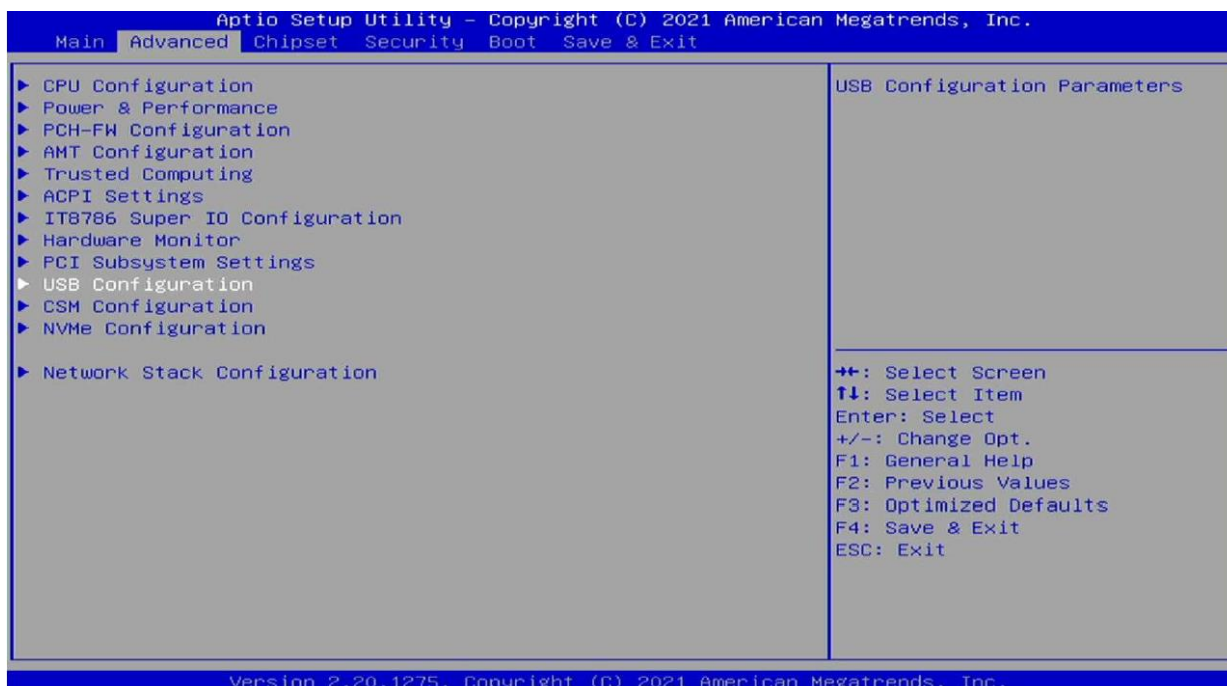
Revision Date: May.13.2025

3.4.9 PCI Subsystem Settings



Field Name	Above 4G Decoding
Default Value	[Disabled]
Possible Value	Disabled Enabled

3.4.10 USB Configuration



Field Name	Legacy USB Support
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Default Value	[Enabled]
Possible Value	Enabled Disabled Auto

Field Name	XHCI Hand-Off
Default Value	[Enabled]
Possible Value	Enabled Disabled

Field Name	USB Mass Storage Driver Support
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	USB transfer time-out
Default Value	[20 sec]
Possible Value	1 sec 5 sec 10 sec 20 sec

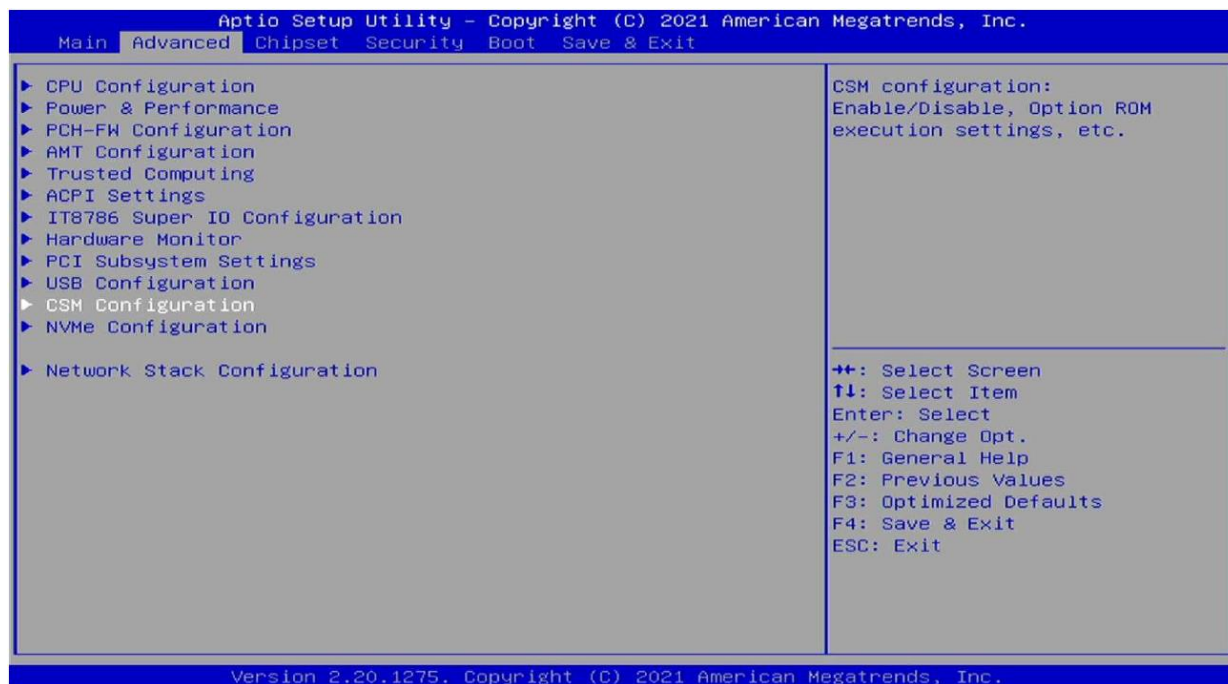
Field Name	Device reset time-out
Default Value	[20 sec]
Possible Value	1 sec 5 sec 10 sec 20 sec

Field Name	Device Power-up delay
Default Value	[Auto]
Possible Value	Auto Manual

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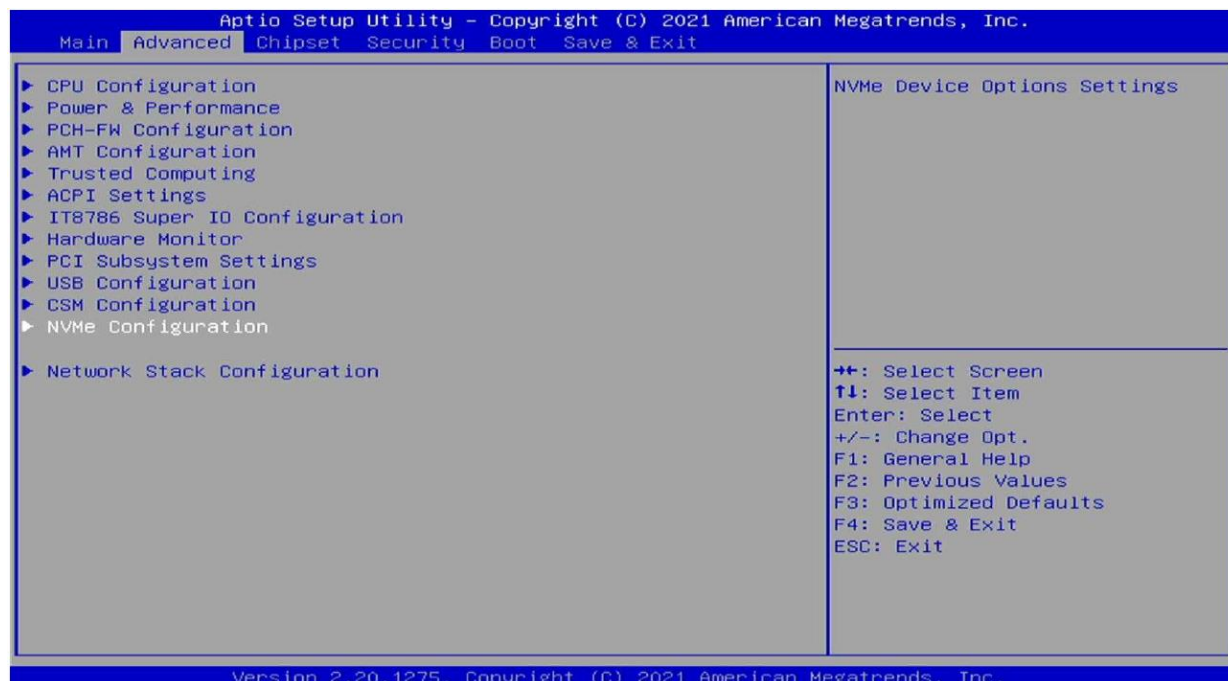
Revision Date: May.13.2025

3.4.11 CSM Configuration



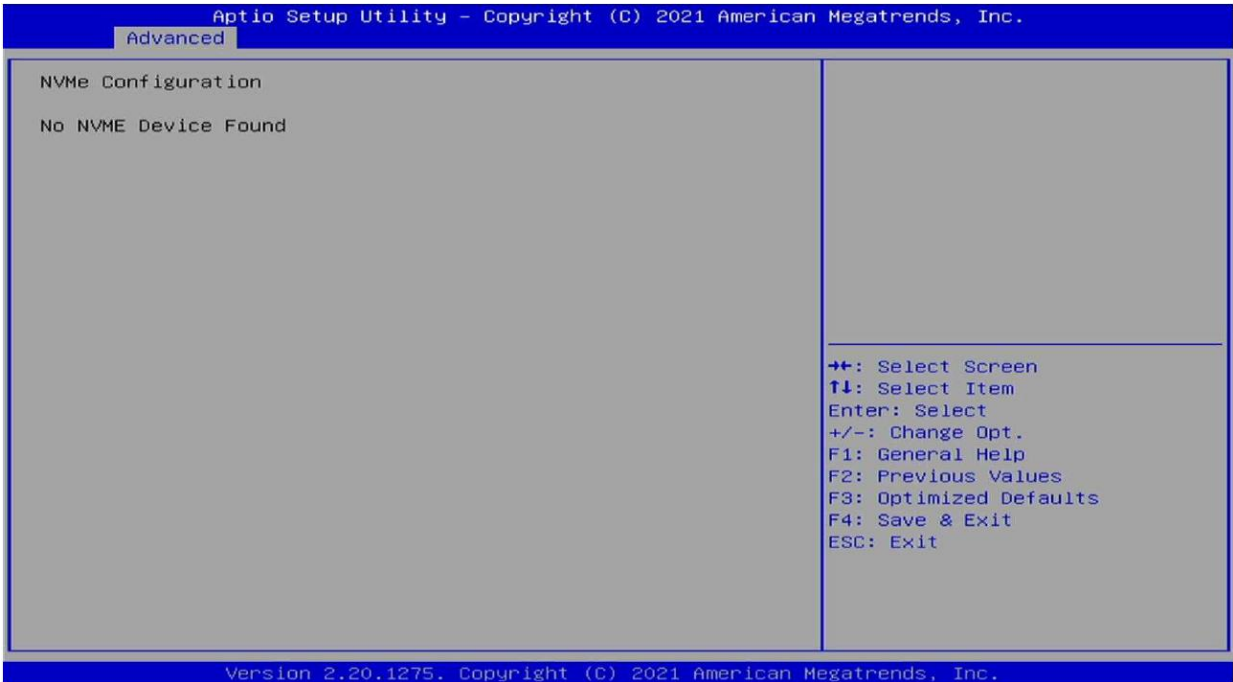
Field Name	CSM Support
Default Value	[Disabled]
Possible Value	Disabled Enabled

3.4.12 NVMe Configuration

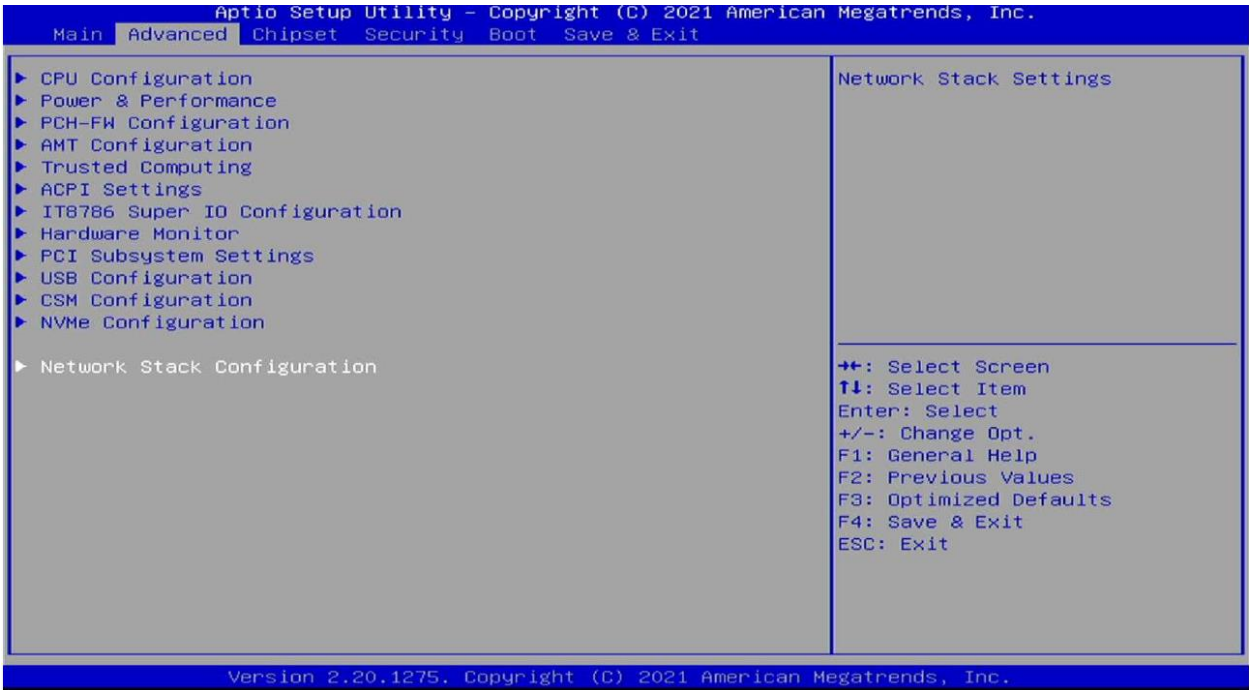


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3.4.13 Network Stack Configuration



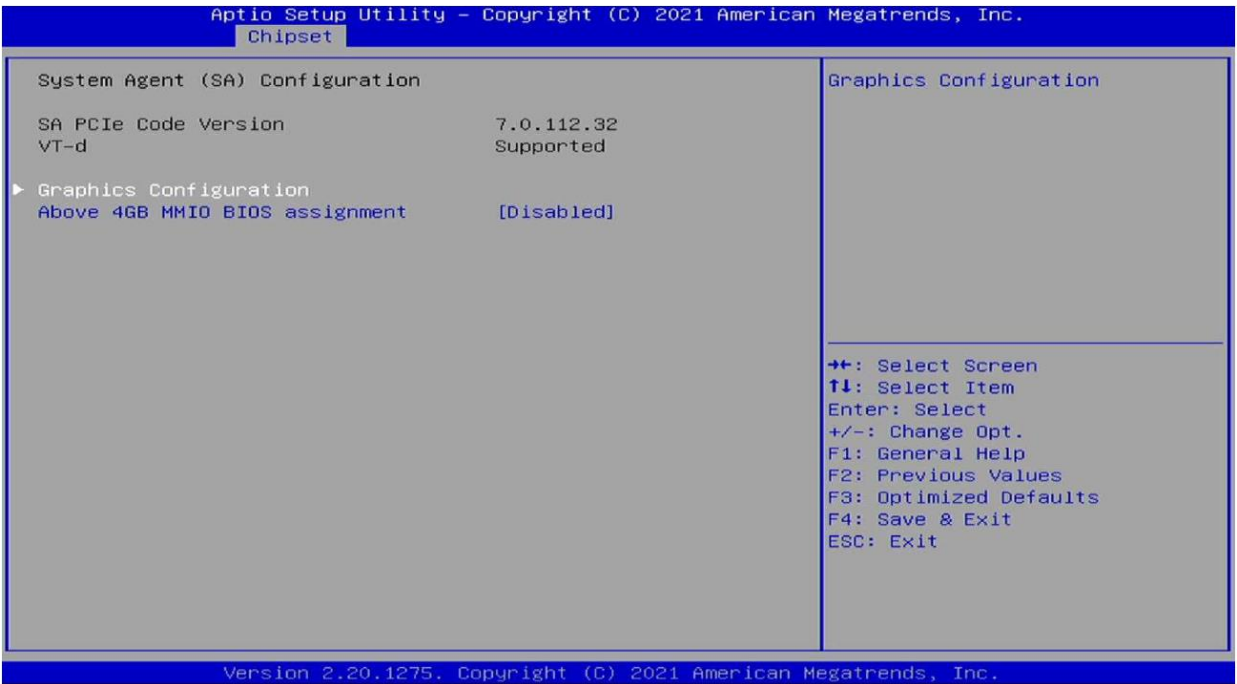
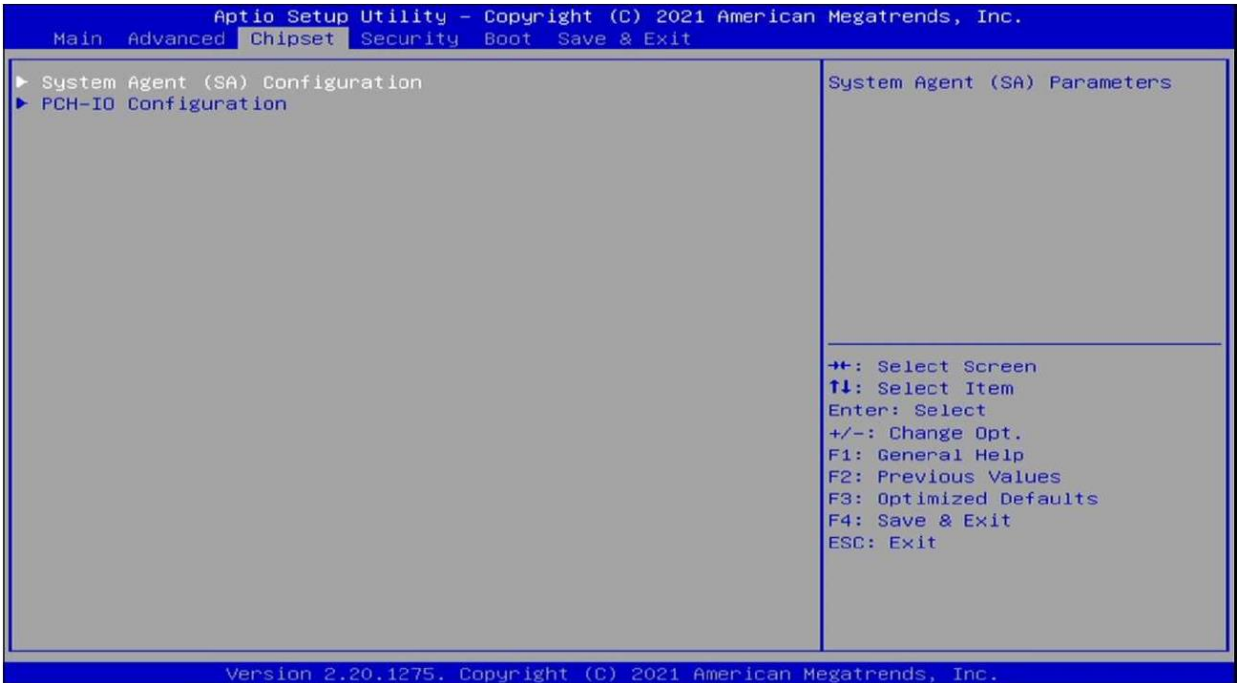
Field Name	Network Stack
Default Value	[Disabled]
Possible Value	Disabled Enabled

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3.5 Chipset

3.5.1 System Agent (SA) Configuration



Field Name	Primary Display
Default Value	[Auto]
Possible Value	Auto IGFX PEG

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	PCI SG
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Field Name	Internal Graphics
Default Value	[Auto]
Possible Value	Auto Disabled Enabled

Field Name	GTT Size
Default Value	[8MB]
Possible Value	2MB 4MB 8MB

Field Name	Aperture Size
Default Value	[256MB]
Possible Value	128MB 256MB 512MB 1024MB 2048MB

Field Name	DVMT Pre-Allocated
Default Value	[32M]
Possible Value	0M 32M 64M 4M 8M 12M 16M 20M 24M 28M 32M/F7 36M 40M

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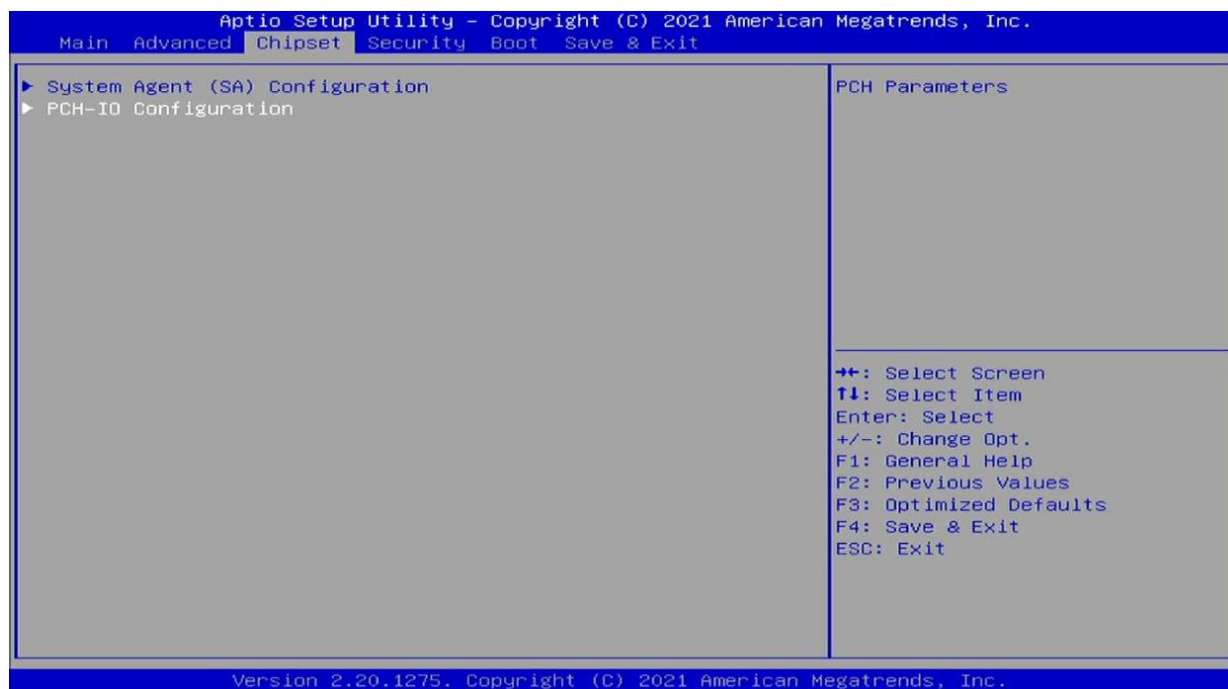
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	44M
	48M
	52M
	56M
	60M

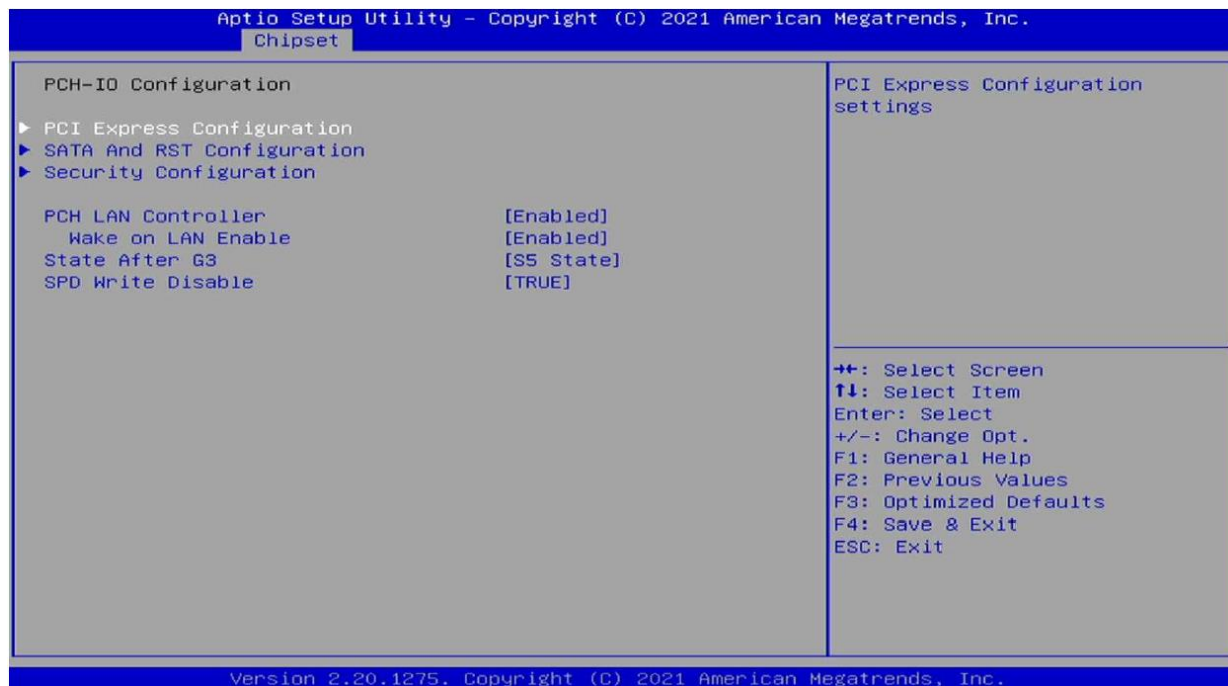
Field Name	DVMT Total Gfx Mem
Default Value	[128M]
Possible Value	128M 256M MAX

Field Name	Above 4GB MMIO BIOS assignment
Default Value	[Enabled]
Possible Value	Enabled Disabled

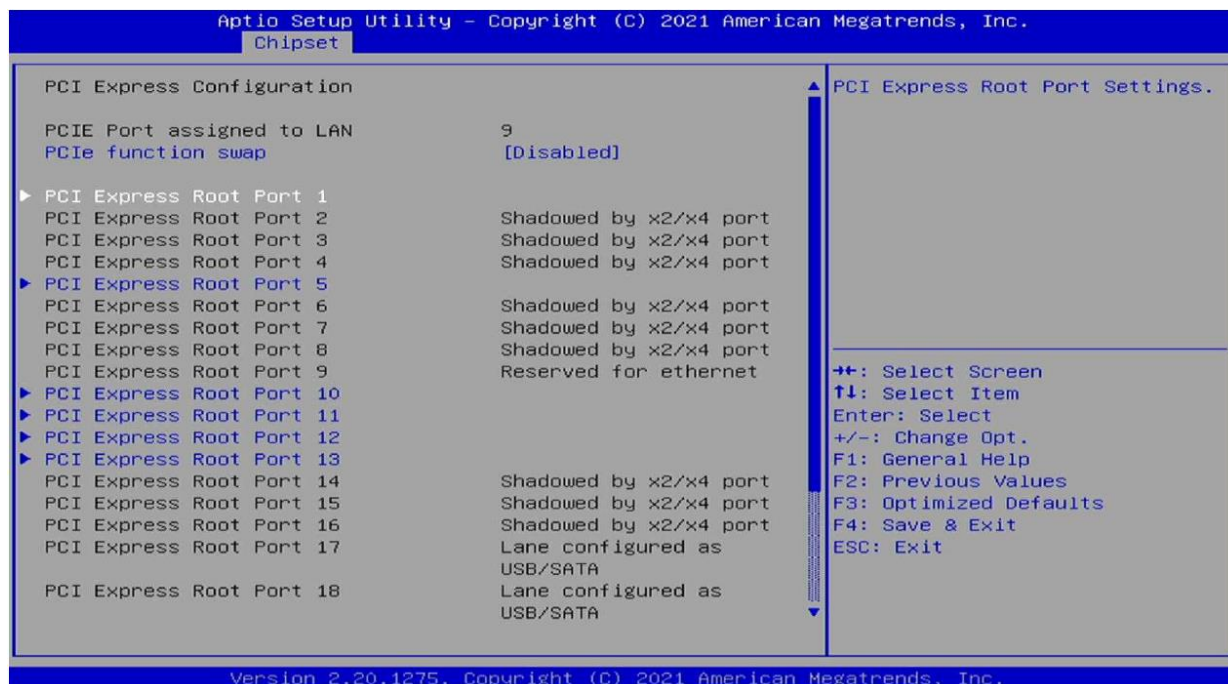
3.5.2 PCH-IO Configuration



3.5.2.1 PCI Express Configuration

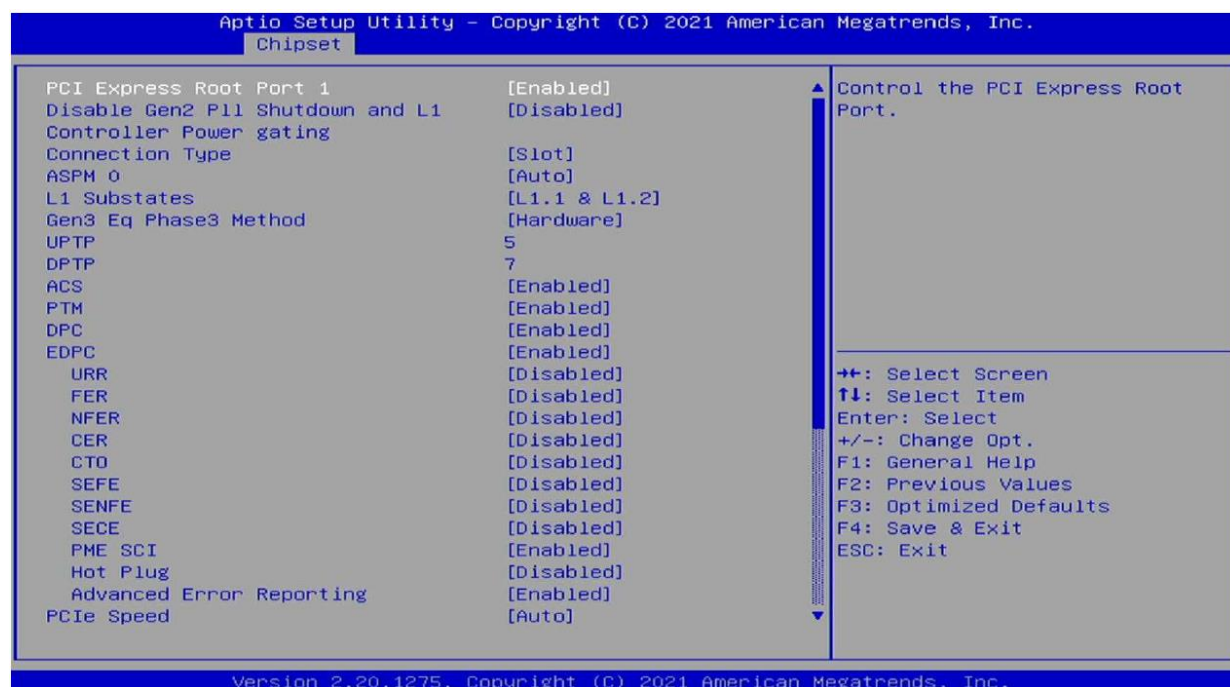


Field Name	PCIe function swap
Default Value	[Disabled]
Possible Value	Disabled Enabled



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Field Name	PCI Express Root Port 1
Default Value	[Enabled]

Field Name	PCI Express Root Port 5
Default Value	[Enabled]

Field Name	PCI Express Root Port 10
Default Value	[Enabled]

Field Name	PCI Express Root Port 11
Default Value	[Enabled]

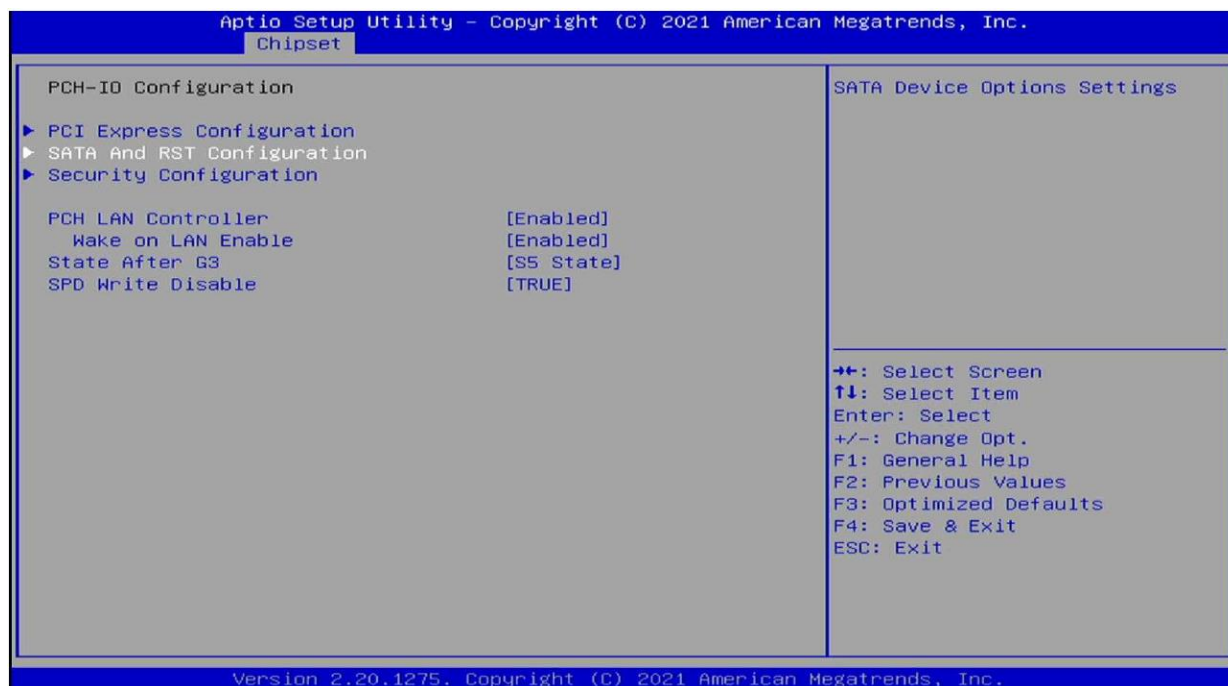
Field Name	PCI Express Root Port 12
Default Value	[Enabled]

Field Name	PCI Express Root Port 13
Default Value	[Enabled]

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3.5.2.2 SATA And RST Configuration



Field Name	SATA Controller(s)
Default Value	[Enabled]
Possible Value	Enabled Disabled

Field Name	SATA Mode Selection
Default Value	[AHCI]
Possible Value	AHCI Intel RST Premium With Intel Optane System Acceleration

Field Name	M.2 Port
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	Port 1
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	Port 2
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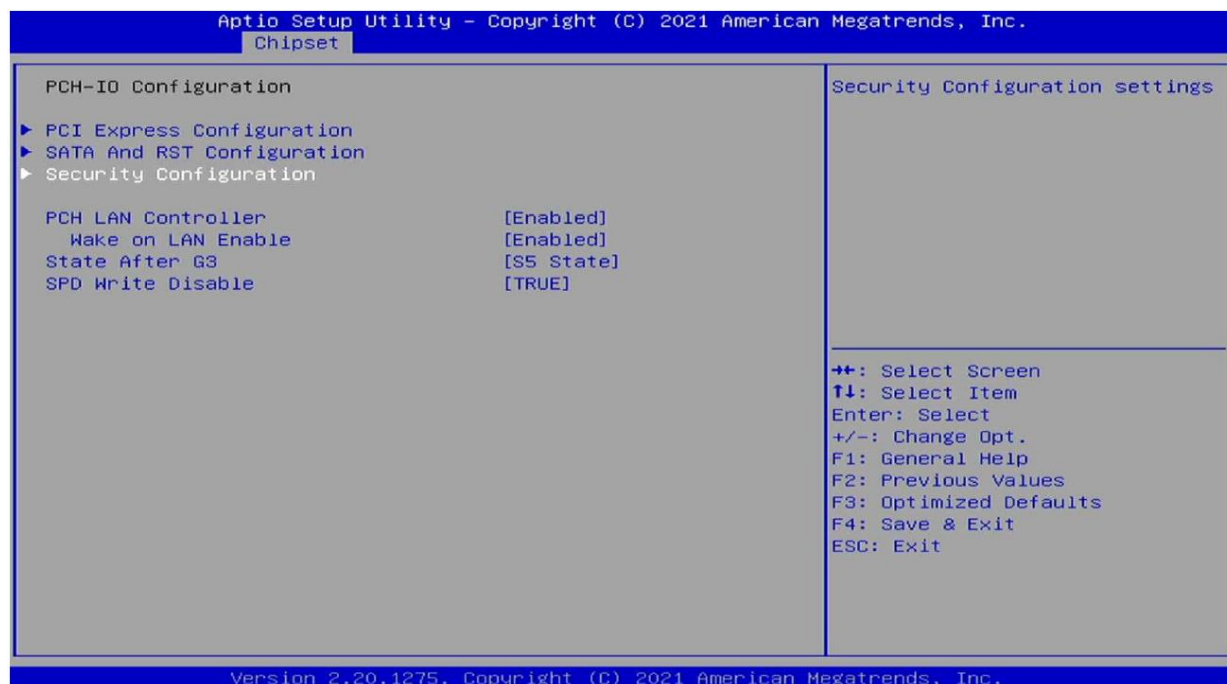
Revision Date: May.13.2025

Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	Port 3
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	Port 4
Default Value	[Enabled]
Possible Value	Disabled Enabled

3.5.2.3 Security Configuration



Field Name	RTC Memory Lock
Default Value	[Enabled]
Possible Value	Disabled Enabled

Field Name	BIOS Lock
Default Value	[Enabled]

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Possible Value	Disabled Enabled
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Field Name	Force unlock on all GPIO pads
Default Value	[Disabled]
Possible Value	Disabled Enabled

Field Name	PCH LAN Controller
Default Value	[Enabled]
Possible Value	Enabled Disabled

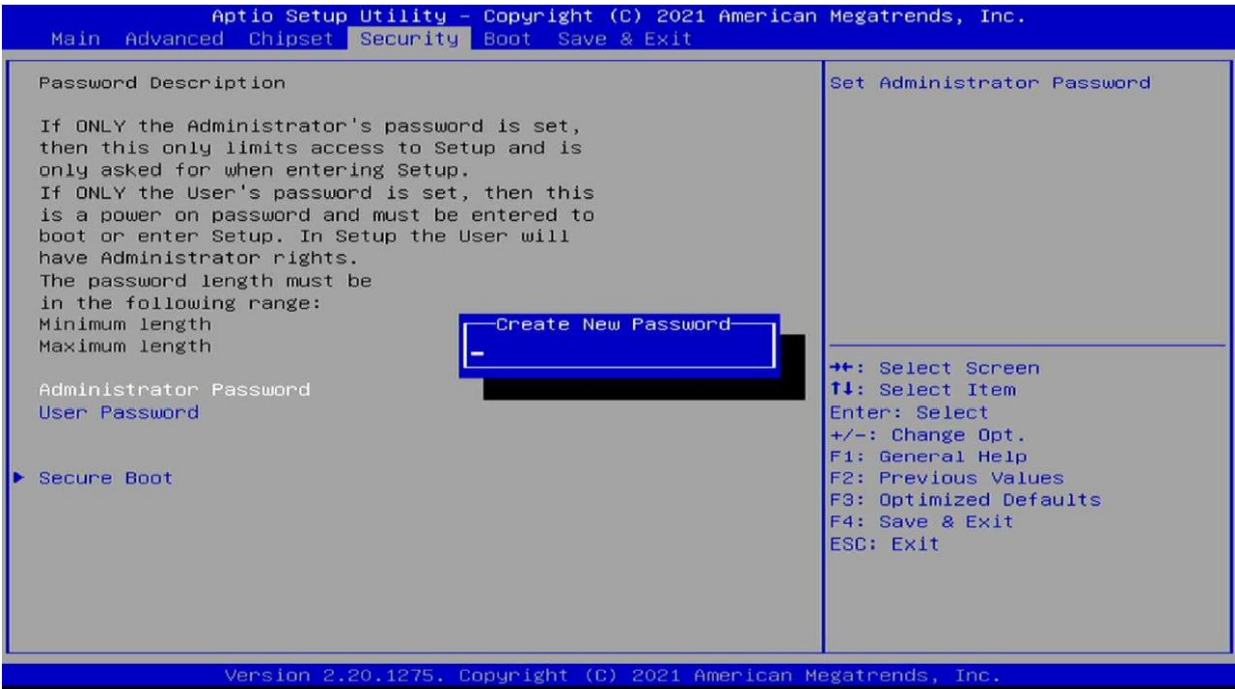
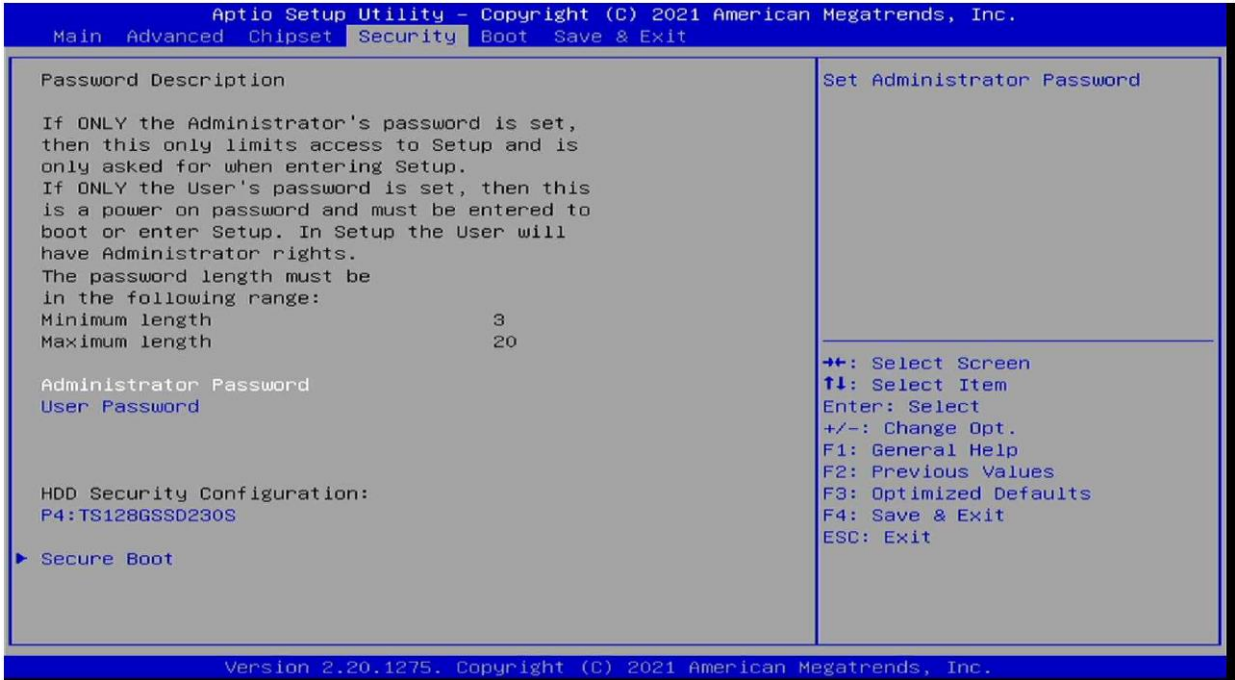
Field Name	Wake on LAN Enable
Default Value	[Enabled]
Possible Value	Enabled Disabled

Field Name	State After G3
Default Value	[S5 State]
Possible Value	S0 State S5 State

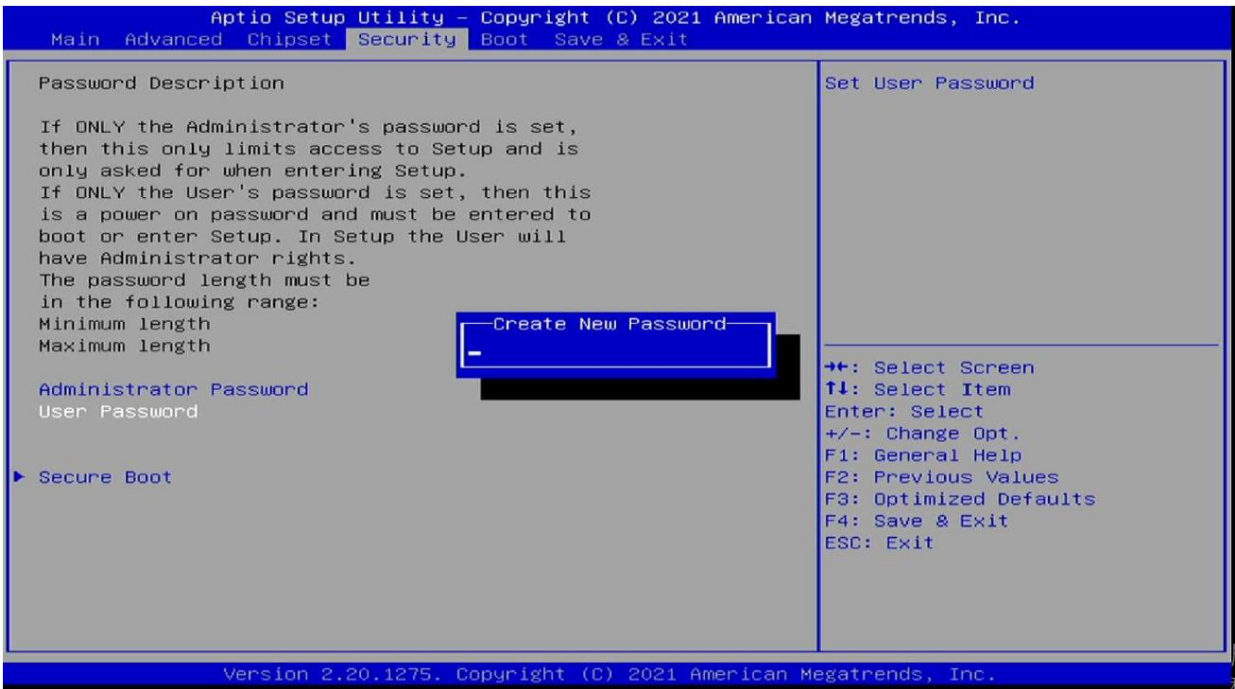
Field Name	SPD Write Disable
Default Value	[TRUE]
Possible Value	TRUE FALSE

3.6 Security

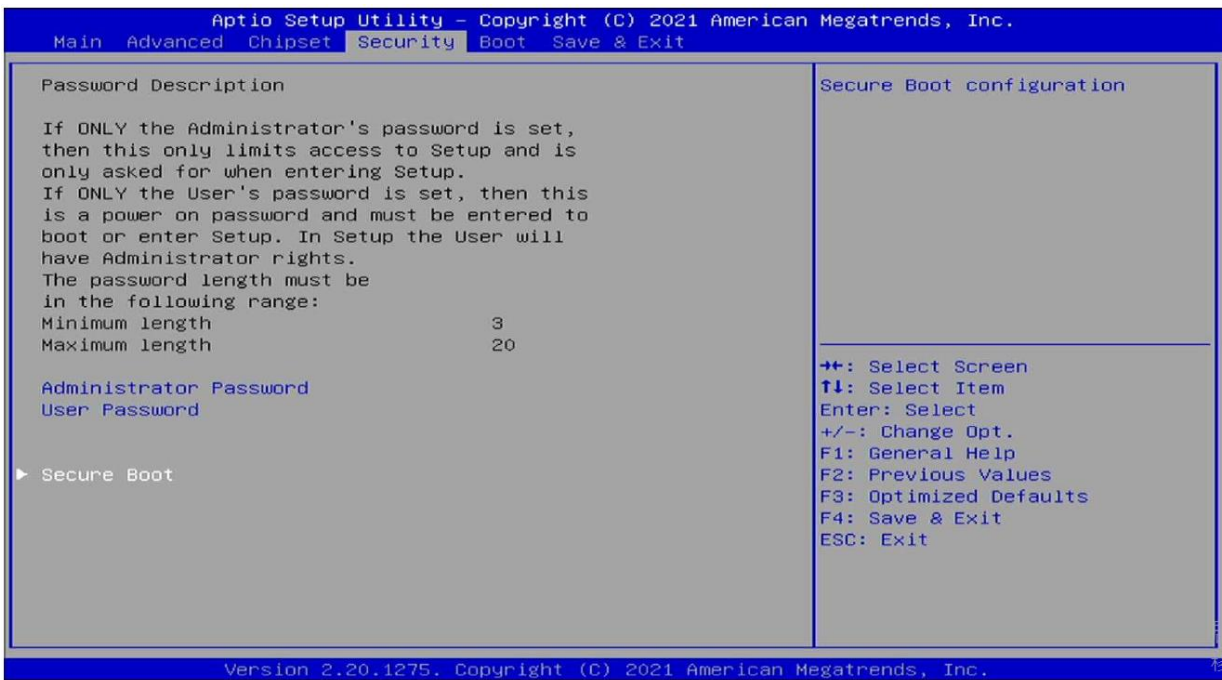
3.6.1 Administrator Password



3.6.2 User Password



3.6.3 Secure Boot



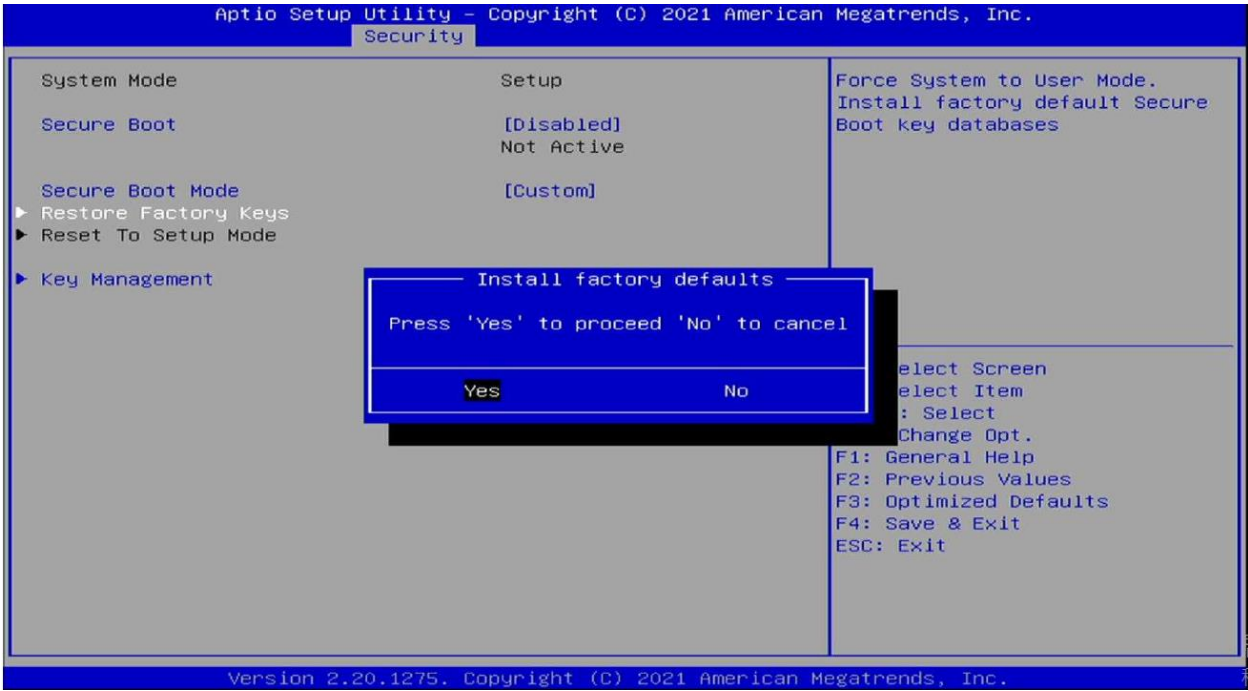
Field Name	Secure Boot
Default Value	[Enabled]
Possible Value	Disabled Enabled
Field Name	Secure Boot Mode

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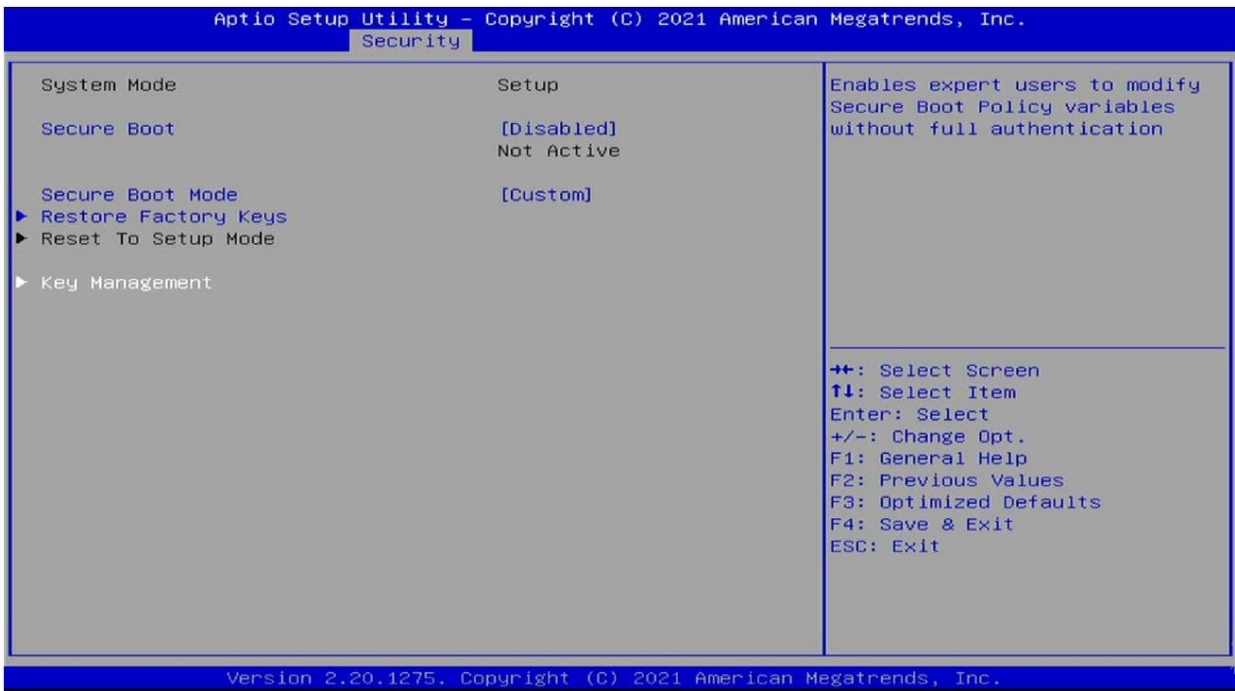
Revision Date: May.13.2025

Default Value	[Custom]
Possible Value	Standard Custom

3.6.3.1 Restore Factory Keys



3.6.3.2 Key Management



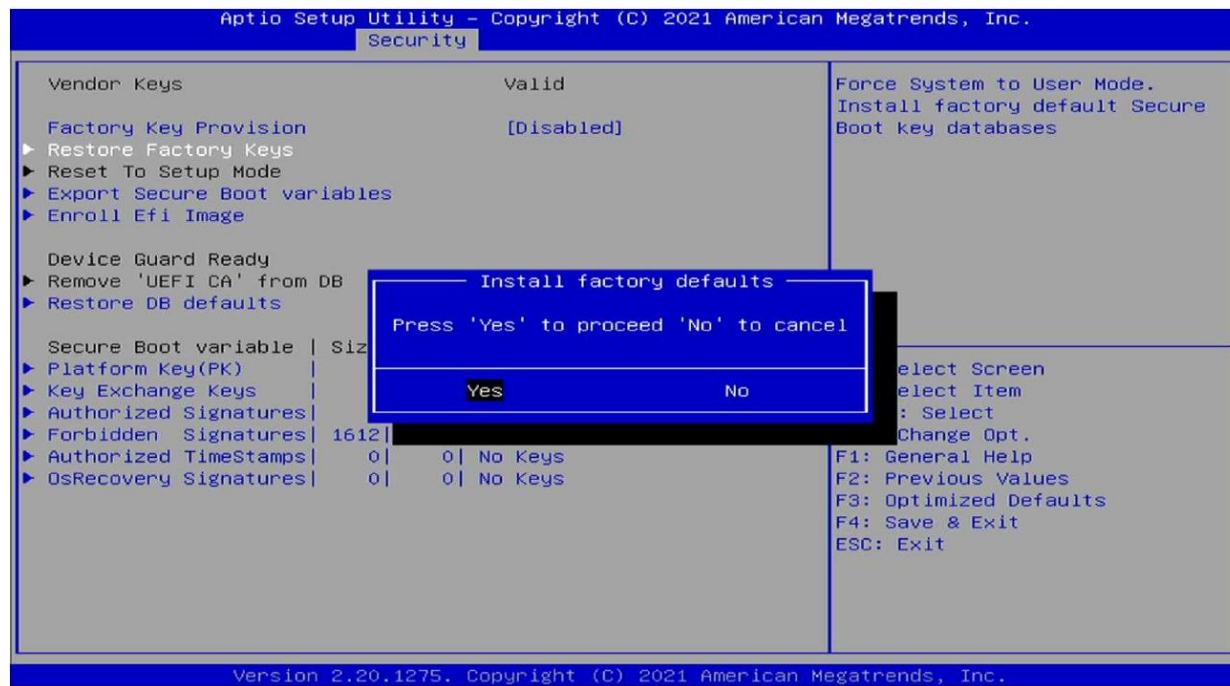
Field Name	Factory Key Provision
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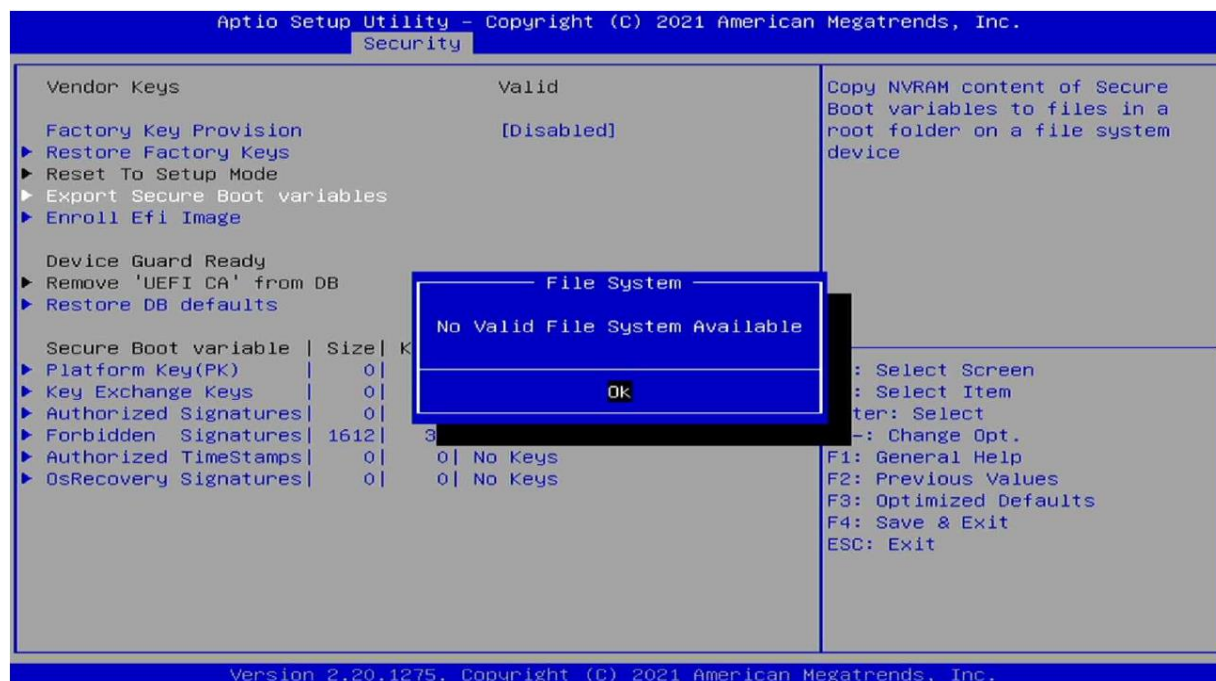
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Default Value	[Disabled]
Possible Value	Disabled Enabled

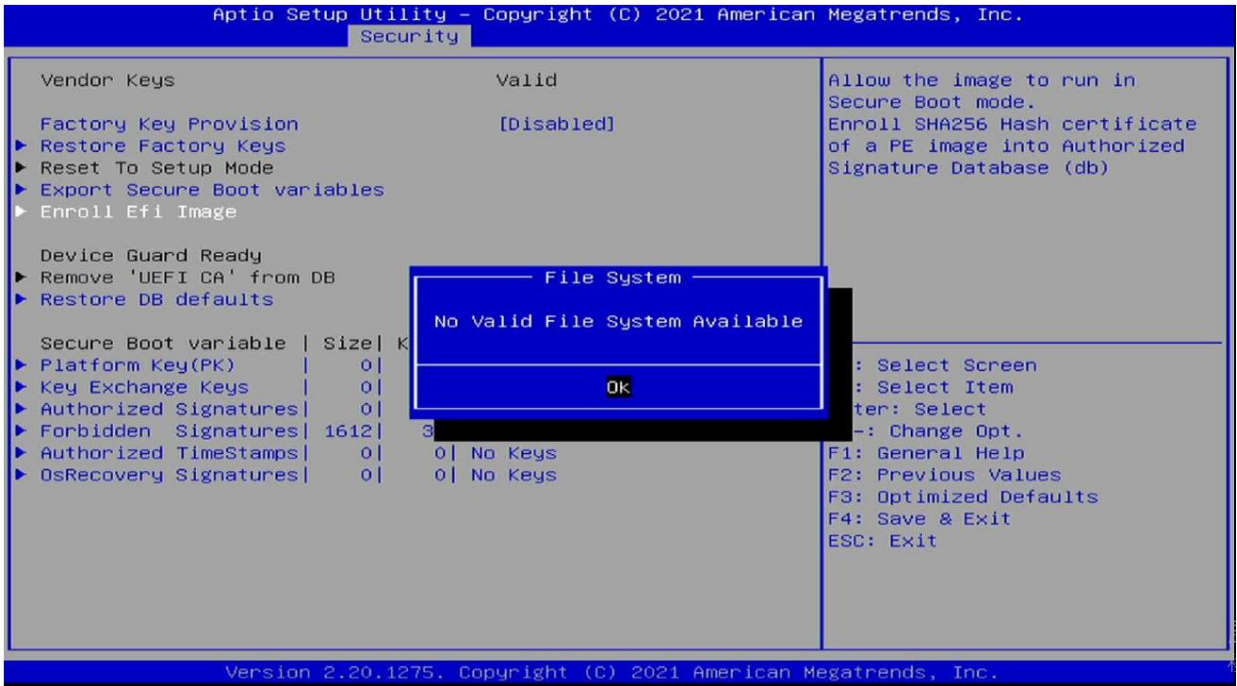
3.6.3.3 Install factory defaults



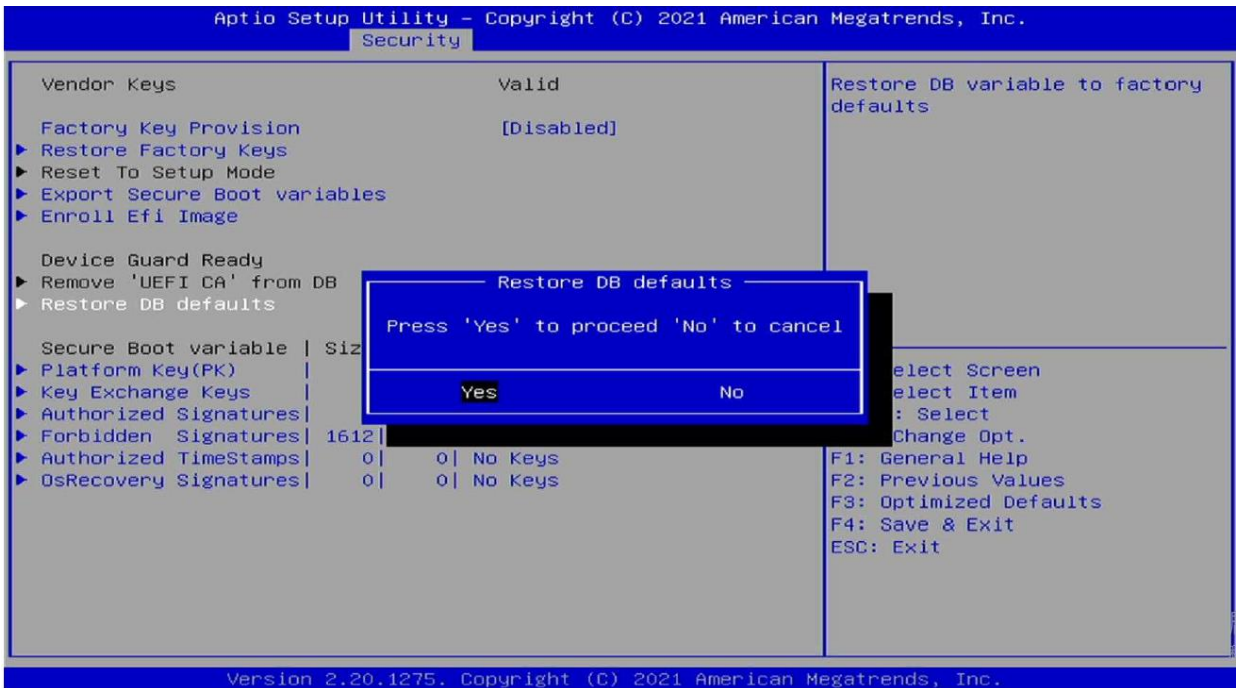
3.6.3.4 File System



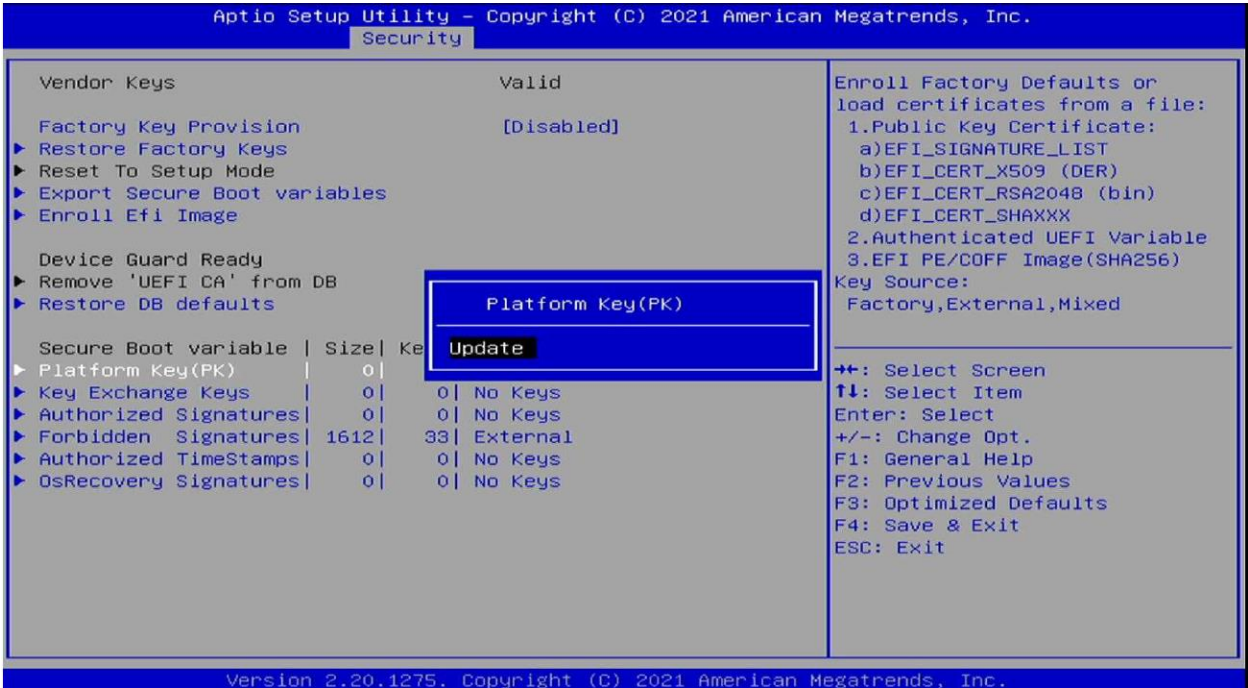
3.6.3.5 File System



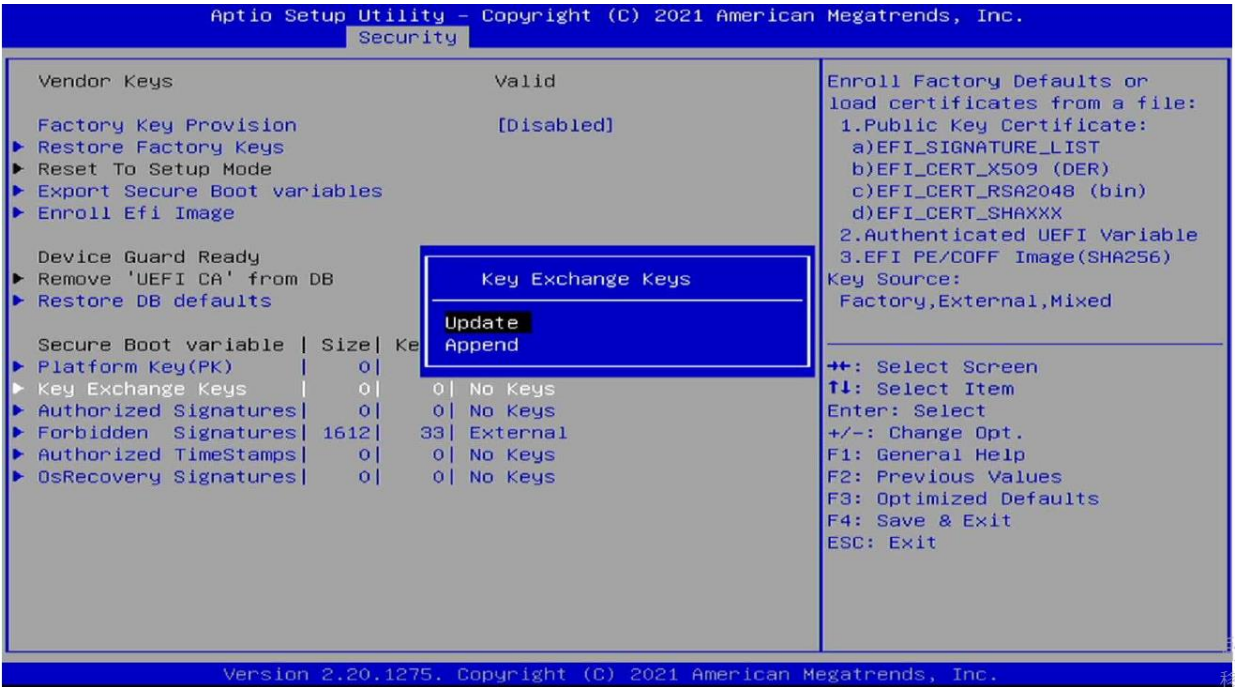
3.6.3.6 Restore DB defaults



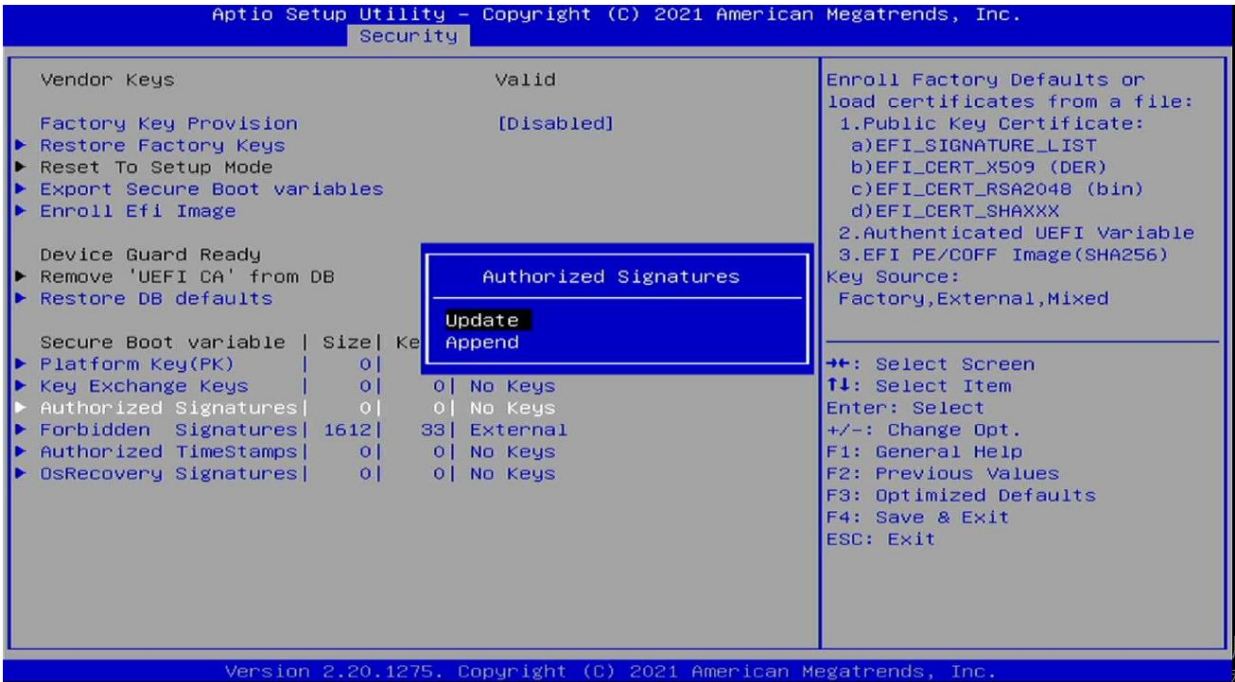
3.6.3.7 Platform Key(PK)



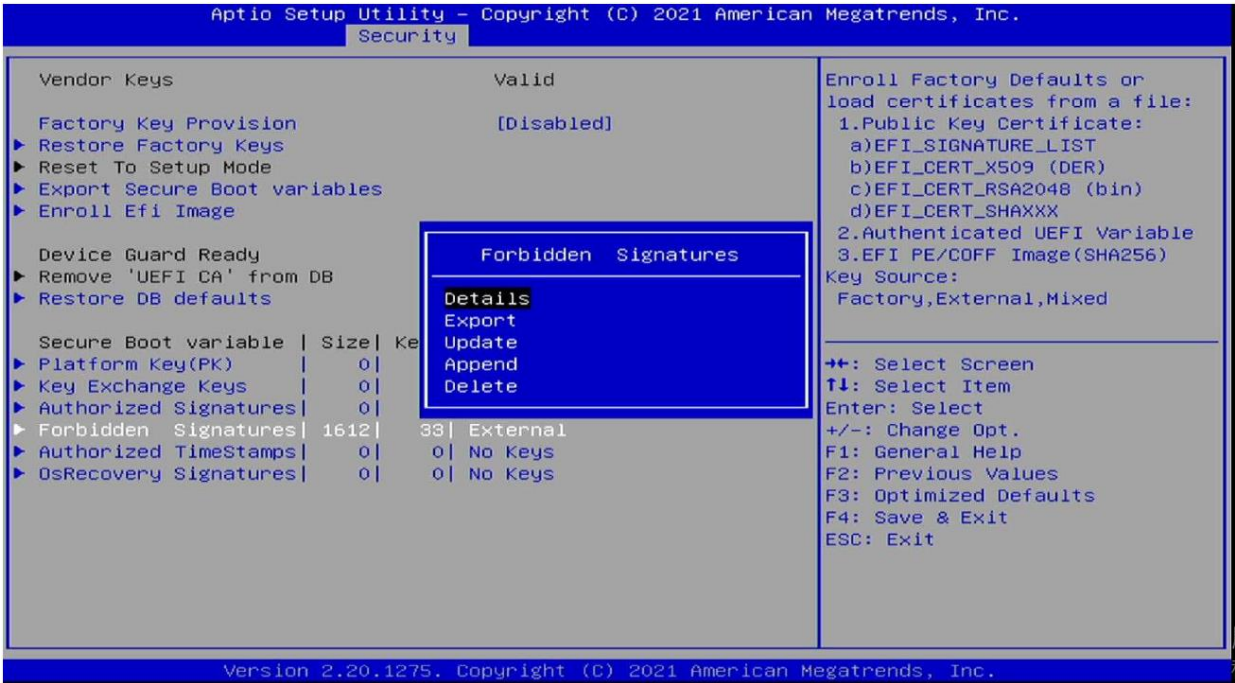
3.6.3.8 Key Exchange keys



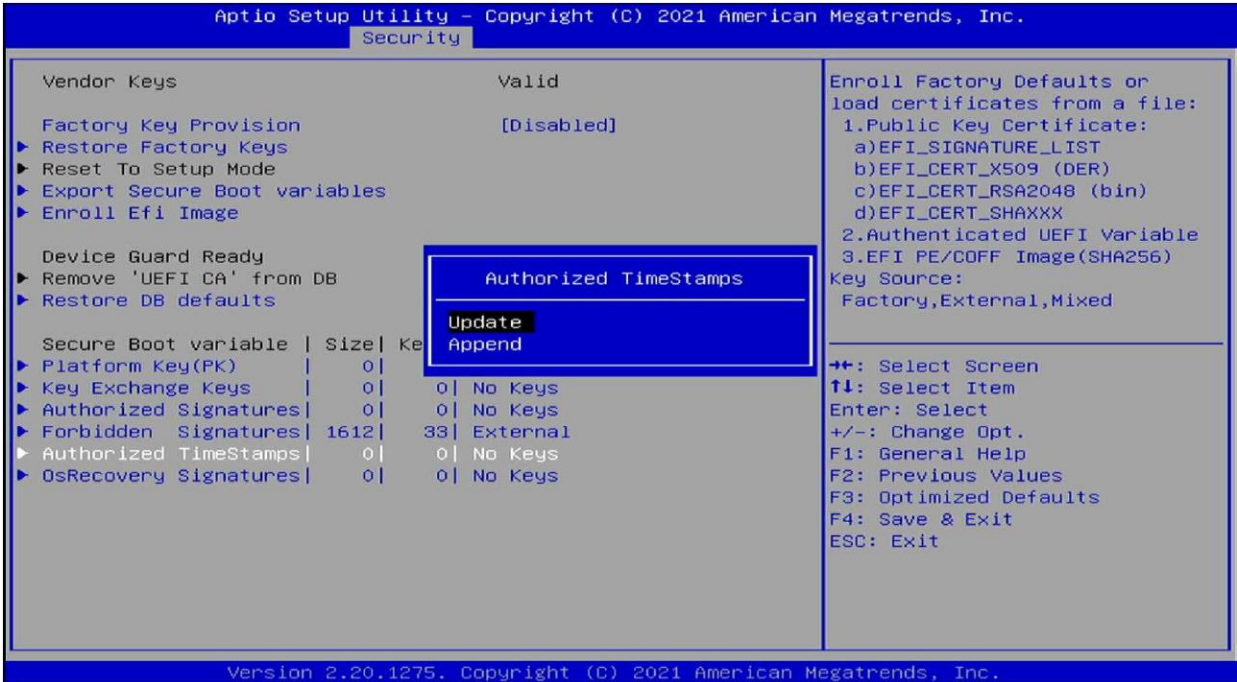
3.6.3.9 Authorized Signatures



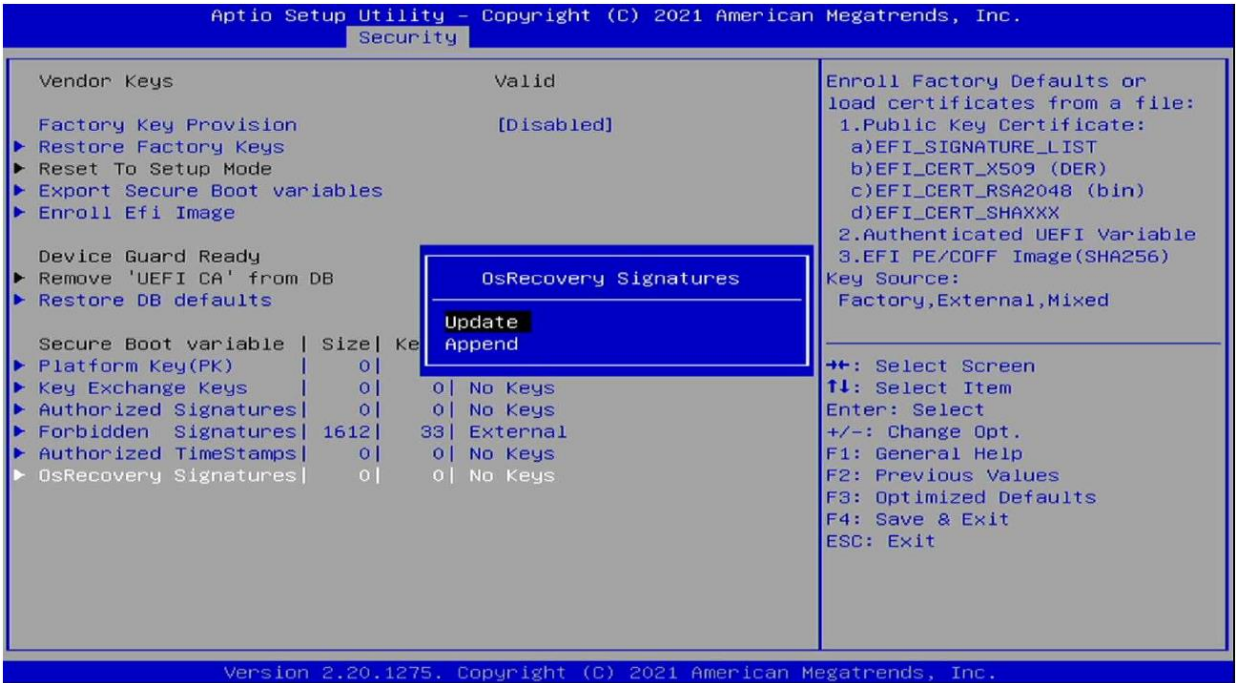
3.6.3.10 Forbidden Signatures



3.6.3.11 Authorized Time Stamps



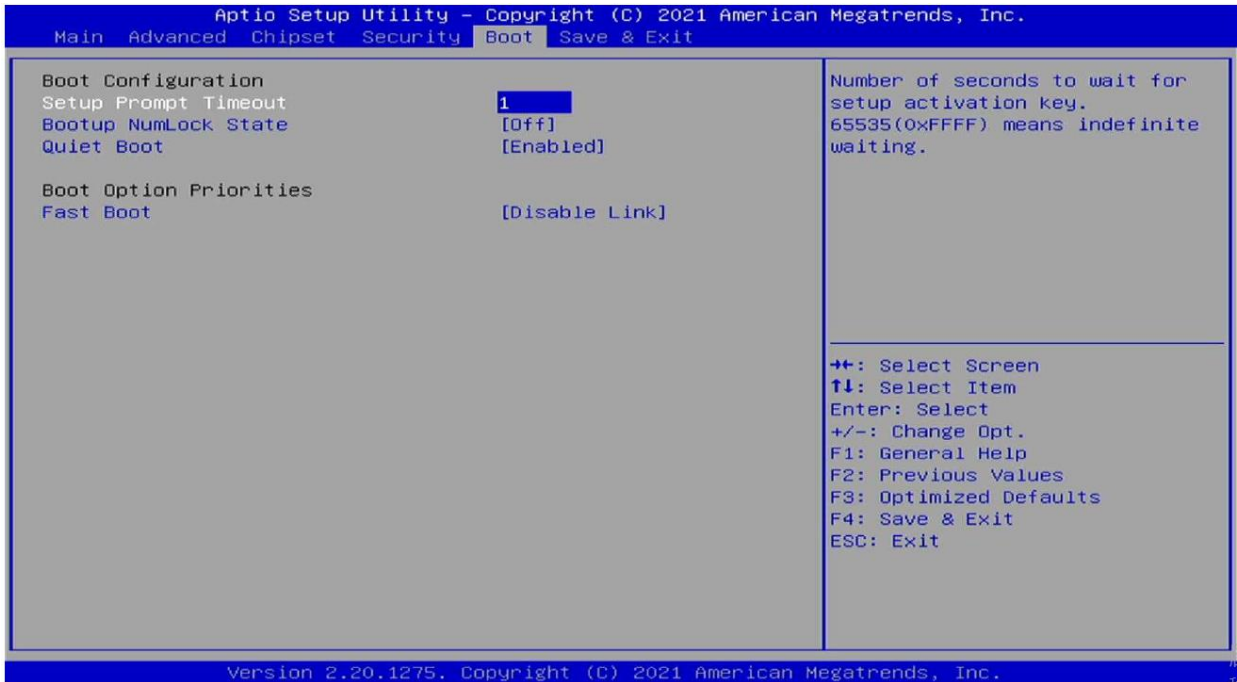
3.6.3.12 OS Recovery Signatures



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3.7 Boot



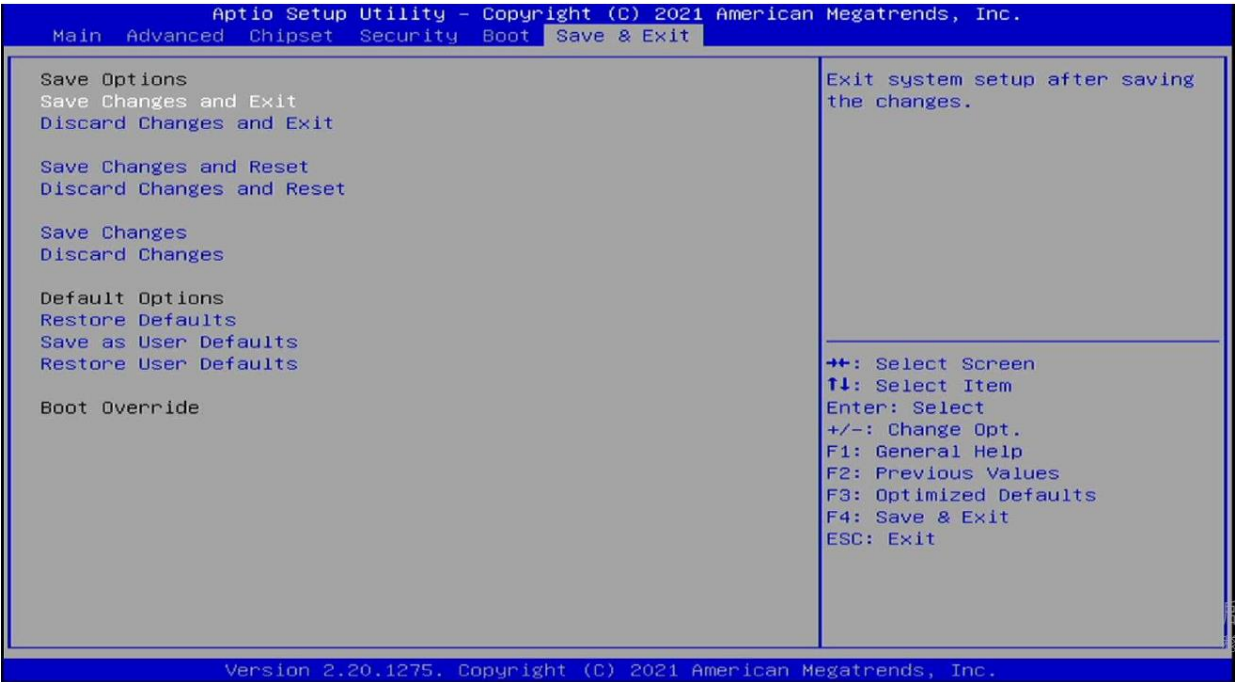
Field Name	Bootup NumLock State
Default Value	[Off]
Possible Value	On Off

Field Name	Quiet Boot
Default Value	[Enabled]
Possible Value	Disabled Enabled

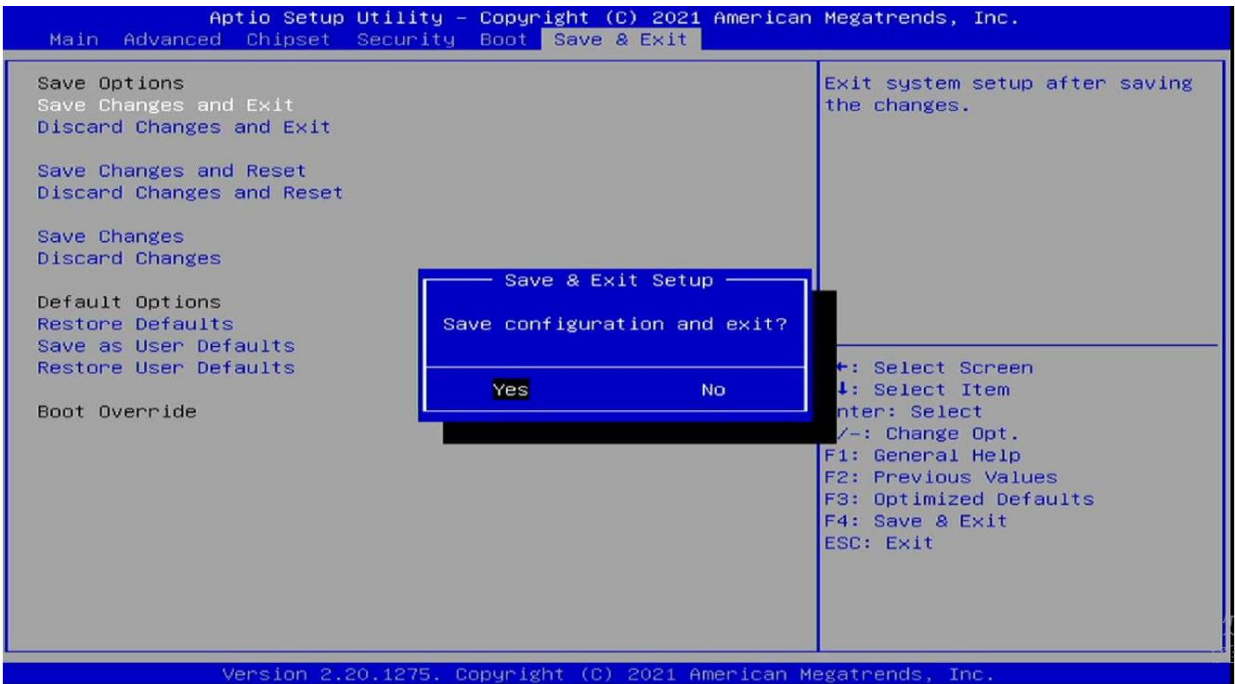
Field Name	Fast Boot
Default Value	[Disable Link]
Possible Value	Disable Link Enabled

3.8 Save & Exit

3.8.1 Save Changes and Exit



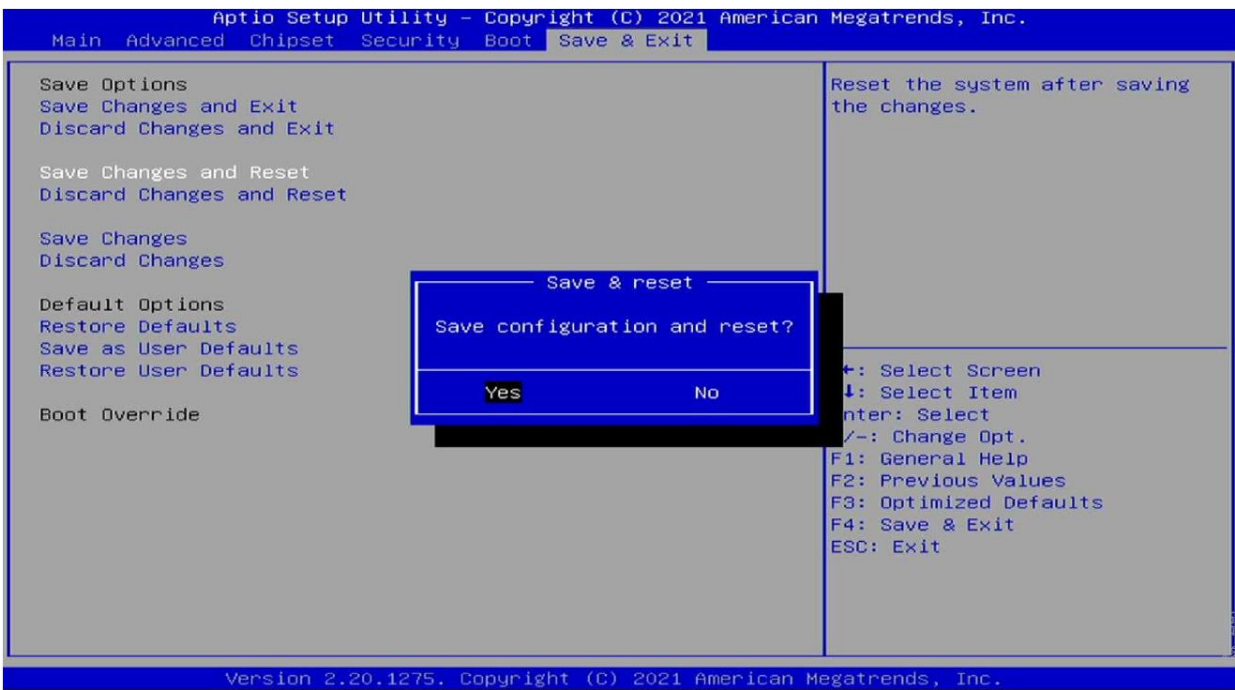
3.8.1.1 Save & Exit Setup



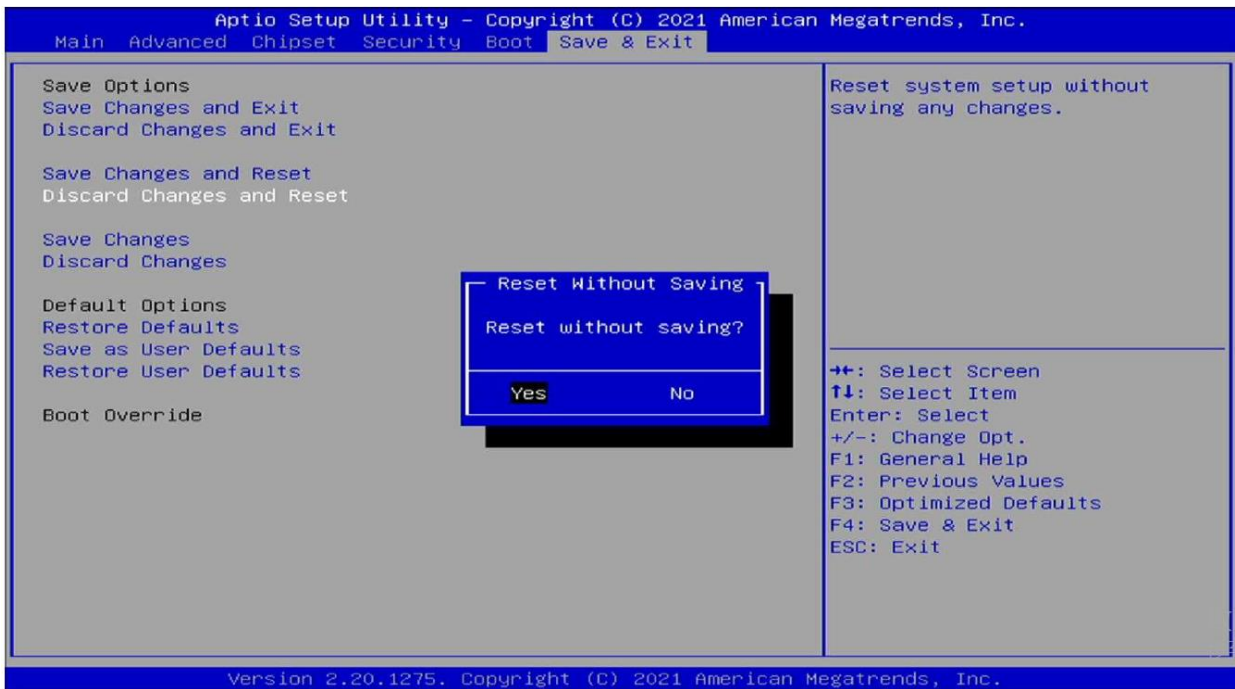
3.8.2 Exit without Saving



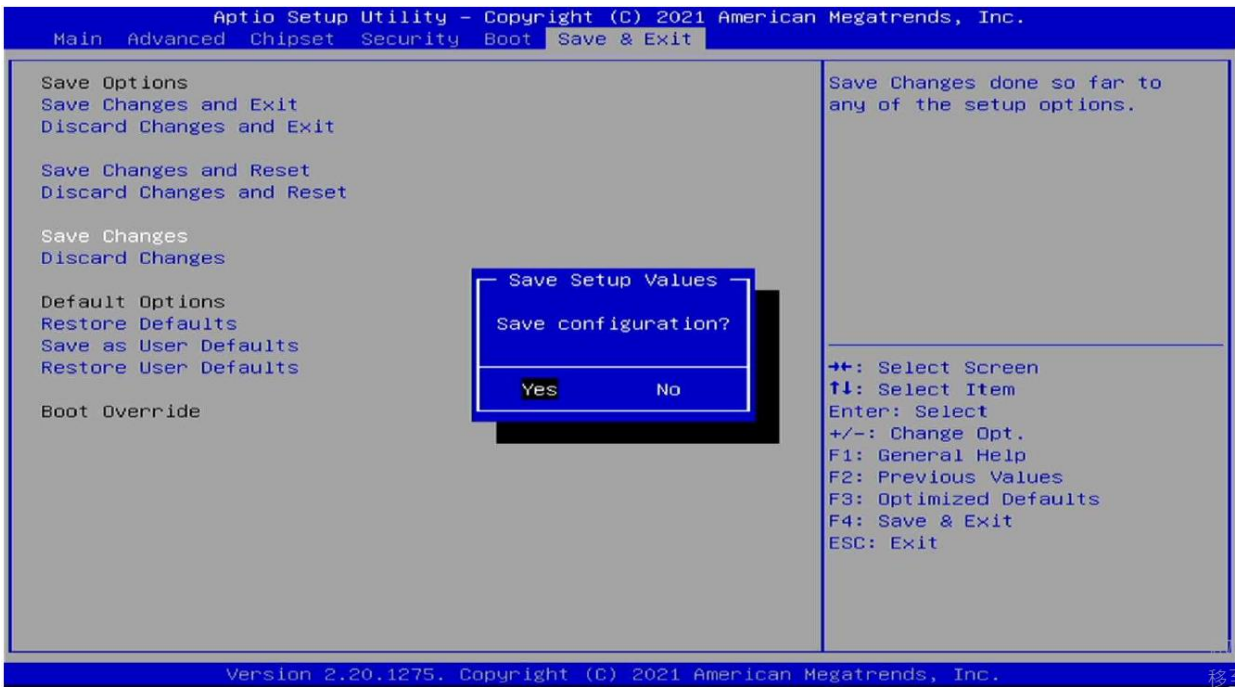
3.8.3 Save & reset



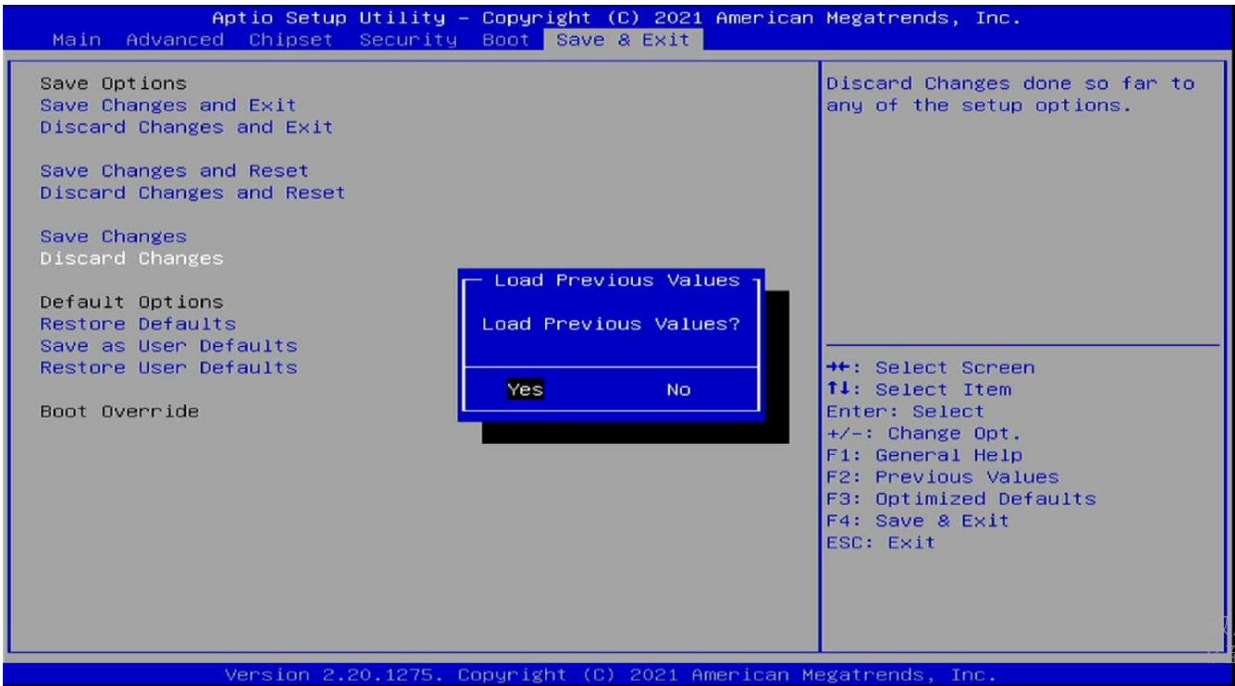
3.8.4 Reset Without Saving



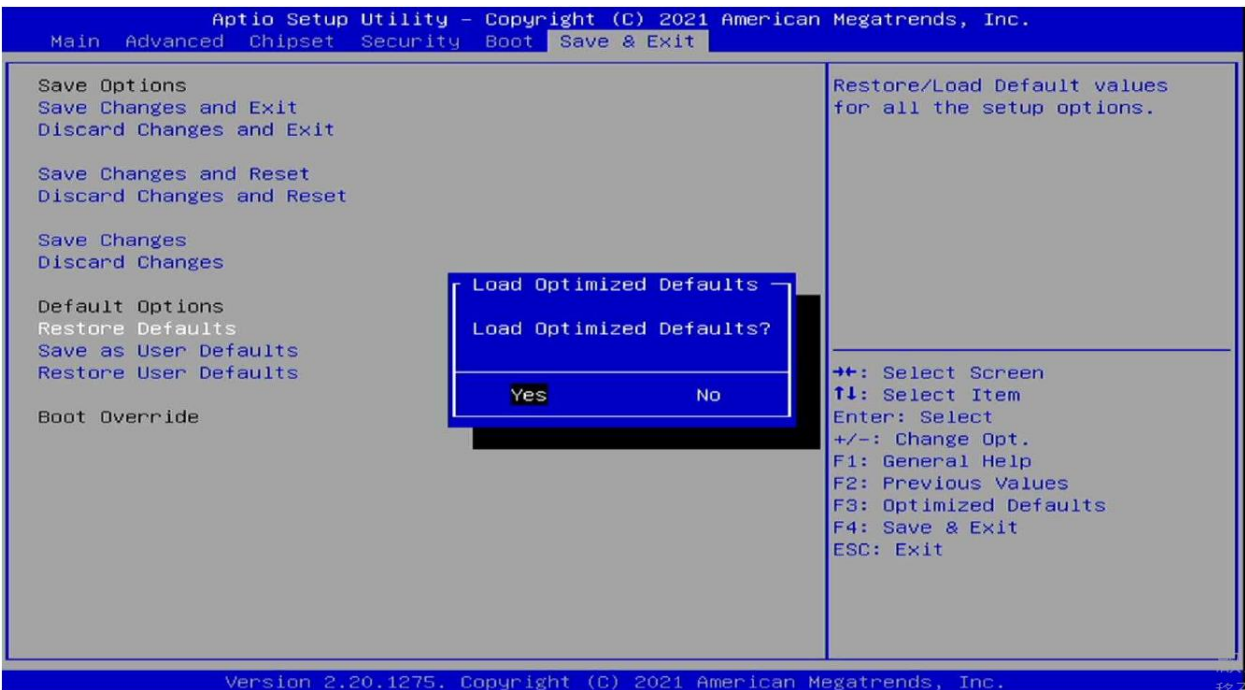
3.8.5 Save Setup Values



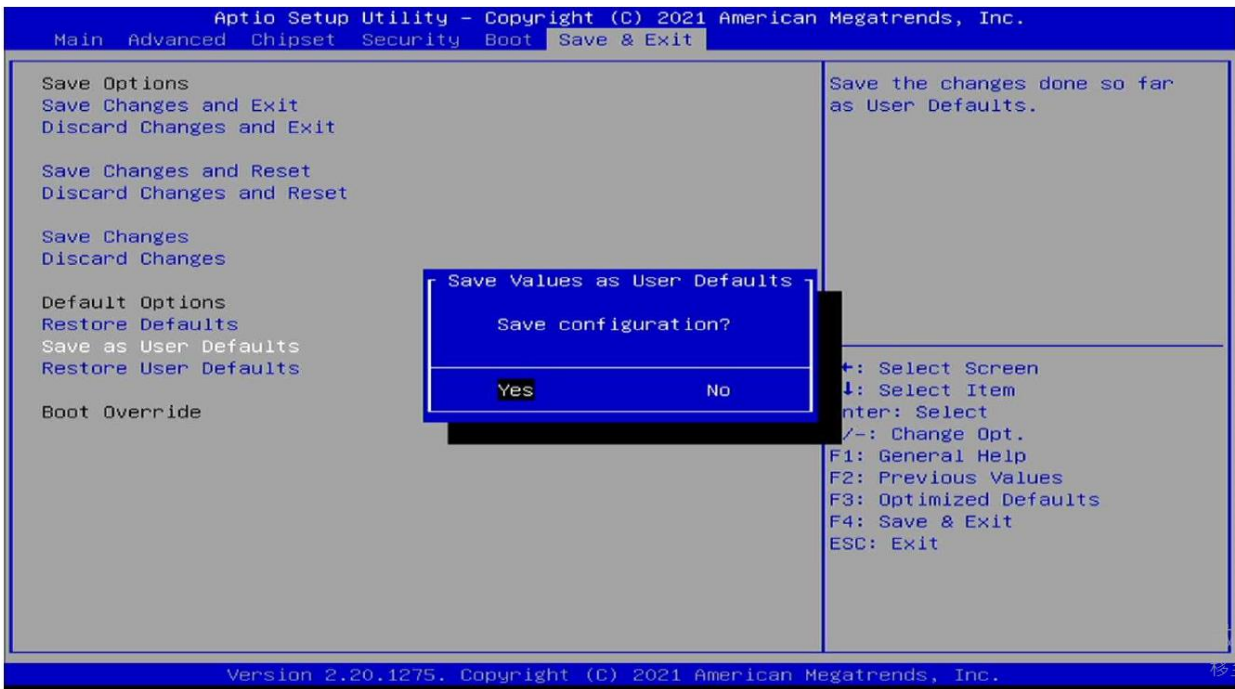
3.8.6 Load Previous Values



3.8.7 Load Optimized Defaults



3.8.8 Save Values as User Defaults



3.8.9 Restore User Defaults

