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Intel® 9th Gen Coffee Lake Xeon® Military

Rugged MXM GPU Computer

User's Manual Revision Date: Dec.09.2024

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.

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If you encounter any technical problems with the product, contact your local distributor

Statement

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Revision History

Revision	Date (yyyy/mm/dd)	Changes
Verision 1.0	2024/12/09	Initial release at SR200-X4-A20

Packing list

SR200-X4-A20 Rugged Fanless System
CD (Driver)
M12 Power Cable

Ordering information

Model Number	Description
SR200-X4-A204	IP65 MIL-STD-810G Rugged Computer with Intel® 9th Gen Coffee Lake Xeon®
	E-2276ML Processor
	9V to 36V DC-in, Extended Temp -40 to 60°C + NVIDIA RTX MXM A2000 4G

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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
МВ	OXY5741A-04A2
BIOS	AMI UEFI BIOS
Memory Type	4x DDR4 SO-DIMM 2666MHz (1x 32GB, Up to 128G)
Graphic	Intel [®] UHD Graphic 630
Chipset	Intel [®] CM246
ТРМ	YPM2.0(SLB9665)
GPU	MXM NVIDIA® RTX™ A2000 2,560 CUDA® cores , 4GB GDDR6 memory, 35W
Display	4x DP up to 4096 x 2304 60@Hz
Storage Device	1x M.2 2280 4TB SSD
	4x SATA III
Ethernet	Intel [®] I210iT & I219LM GbE LAN (10/100/1000 Mbps supported)
Audio Code	ALC888S
PCIe/104	1х Туре 2
Front I/O	
Power Button	1x Power Button w/Indicator LED
СОМ	1x DB-9 (RS232/422/485)
USB	4x USB 3.0
Display Port	2x DP, resolution up to 4096 x 2304
LAN	2x RJ45 LAN
Display Port	2x DP, resolution up to 4096 x 2304
Power In	1x 9V~36V DC-IN with M12 Connector
Rear I/O	
Ground Screw	1x (M4)
Audio	1x Mic-in
	1x Line-out
Mechanical & Enviro	nment
Constructio	Aluminum chassis with fanless design
Power requirement	9V ~ 36V DC-IN
Dimension	370 x 155 x 89.5mm (W x D x H)
Operating Temp.	-40 to 60°C

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Storage Temp	-40 to 85°C
Relative Humidity	5% t0 95%, non-condensing
*Specification are subject	to change without notice.
Cable Kit	
M12 Power cable	1x

1.2 Appearance



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1.3 Dimension







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1.4 System Diagram block



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Chapter 2: Connector pin definition

1. M12 POWER Connector: CON1 / Power Cable :CON2





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COLOR	CON1	CON2	
BROWN	1	 TN1	Vin+
WHITE	2	TN1	Vin+
BLUE	3	TN2	Vin-
BLACK	PE	TN2	Vin-



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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.

Left/Right	The Left and Right <arrow> keys moves the cursor to select a menu.</arrow>	
Up/Down	The Up and Down <arrow> keys moves the cursor to select a setup screen or</arrow>	
	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.</tab>	
F1	The <f1> key displays the General Help screen.</f1>	
F10	The <f10> key saves any changes made and exits the BIOS setup utility.</f10>	
Esc	The <esc> key discards any changes made and exits the BIOS setup utility.</esc>	
Enter	The <enter> key displays a sub-screen or changes a selected or highlighted</enter>	
	option in each menu.	

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

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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Aptio Setup Uti Main Advanced Chipset Sec	lity – Copyright (C) 2021 America Surity Boot Save & Exit	an Megatrends, Inc.
BIOS Information		•
BIOS Vendor	American Megatrends	
Core Version	5.13	
Compliancy	UEFI 2.7; PI 1.6	
BIOS Version	OXA5741 0.06	
Build Date and Time	07/04/2021 17:47:10	
Access Level	Administrator	
FSP Information		
FSP version	07.00.70.20	
RC version	07.00.70.20	
Processor Information		
Name	CoffeeLake Halo	→+: Select Screen
Туре	Intel(R) Xeon(R)	↑↓ : Select Item
	E-2276ML CPU @ 2.00GHz	Enter: Select
Speed	2000 MHz	+/-: Change Opt.
ID	0×906EA	F1: General Help
Stepping	UO	F2: Previous Values
Package	BGA1440	F3: Optimized Defaults
Number of Processors	6Core(s) / 12Thread(s)	F4: Save & Exit
Microcode Revision	D2	ESC: Exit
GT Info	GT2 (0×3E94)	
IGFX VBIOS Version	NZA	•

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.

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3.4 Advanced Menu

The Advanced Menu allows you to configure your system for basic operation. Some entries

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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.

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration Network Stack Configuration 	CPU Configuration Parameters ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1275, Convright (C) 2021 American Mr	egatrends Inc.

3.4.1 CPU Configuration

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

CPU Configuration		When enabled, a VMM can
Туре	Intel(R) Xeon(R) E–2276ML CPU @ 2.00GHz	hardware capabilities provide by Vanderpool Technology.
ID	0×906EA	
Speed	2000 MHz	
L1 Data Cache	32 KB × 6	
L1 Instruction Cache	32 KB x 6	
L2 Cache	256 KB x 6	
L3 Cache	12 MB	
L4 Cache	NZA	
VMX	Supported	
SMXZIXI	supporteu	the Select Scheen
Totel (VMX) Victualization	[Enabled]	tl: Select Item
Technology	[Endbied]	Enter: Select
Active Processor Cores	[A11]	+/-: Change Opt.
Hyper-Threading	[Enabled]	F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit

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Field Name	Intel(VMX) Virtualization Technology
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Field Name	Active Processor Cores
Default Value	[A11]
Possible Value	A11
	1
	2
	3
	4
	5

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

3.4.2 Power & Performance

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot Save & Exit	n Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration Network Stack Configuration 	Power & Performance Options **: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1275. Copyright (C) 2021 American M	Megatrends, Inc.

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

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

3.4.3 PCH-FW Configuration

Aptio Setup Utility – Copyright (C) 2021 American Main <mark>Advanced</mark> Chipset Security Boot Save & Exit	Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration 	Configure Management Engine Technology Parameters
▶ Network Stack Configuration	<pre>++: Select Screen t↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

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

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

3.4.4 AMT Configuration

Aptio Setup Utility Advanced	– Copyright (C) 2021 Am	erican Megatrends, Inc.
ME Firmware Version ME Firmware Mode ME Firmware SKU ME Firmware Status 1 ME Firmware Status 2 ME State Manageability Features State AMT BIOS Features > AMT Configuration ME Unconfig on RTC Clear	12.0.64.1551 Normal Mode Corporate SKU 0×91000255 0×89108106 [Enabled] [Enabled] [Enabled] [Enabled]	Configure Intel(R) Active Management Technology Parameters
▶ Firmware Update Configuration		<pre> ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

ASF support	[Enabled]	Configure Remote Assistance
USB Provisioning of AMT CIRA Configuration ASF Configuration Secure Erase Configuration OEM Flags Settings MEBx Resolution Settings	[Disabled]	Process parameters.
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.20.127	5. Copyright (C) 2021 Ame	erican Megatrends, Inc.

Default Value	[Enabled]
Possible Value	Disabled
	Enabled

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3.4.4.2 ASF Configuration

Aptio Setup Ut: Advanced	llity – Copyright (C) 2021 Ame	erican Megatrends, Inc.
ASF support	[Enabled]	Configure Alert Standard
USB Provisioning of AMT • CIRA Configuration • ASF Configuration • OEM Flags Settings • MEBx Resolution Settings	[Disabled]	<pre>Format parameters. ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

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3.4.4.3 Secure Erase Configuration

Aptio Setup Uti Advanced	lity – Copyright (C) 2021 An	merican Megatrends, Inc.
ASF support	[Enabled]	Secure Erase configuration menu
USB Provisioning of AMT • CIRA Configuration • ASF Configuration • Secure Erase Configuration • OEM Flags Settings • MEBx Resolution Settings	[Disabled]	<pre>**: Select Screen f1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Vanaion 2 20 4	275 Conjunight (C) 2021 Amo	nicon Norotnondo. Too

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

Aptio Setup Utility Advanced	– Copyright (C) 2021 Americar	Megatrends, Inc.
ASF support	[Enabled]	Configure OEM Flags
USB Provisioning of AMT • CIRA Configuration • ASF Configuration • Secure Erase Configuration • OEM Flags Settings • MEBx Resolution Settings	[Disabled]	<pre>++: Select Screen t↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Venetion 0 00 1075	Conjunialet (C) 2021 Amonicon I	togotopodo Teo

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	

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

3.4.4.5 MEBx Resolution Settings

Aptio Setup Utility Advanced	– Copyright (C) 2021 America	n Megatrends, Inc.
ASF support	[Enabled]	Resolution settings for MEBx
USB Provisioning of AMT • CIRA Configuration • ASF Configuration • Secure Erase Configuration • OEM Flags Settings • MEBx Resolution Settings	[Disabled]	<pre>display modes ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.20.1275.	Copyright (C) 2021 American	Megatrends, Inc.

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

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	640,490		
	04UX48U		
	800x600		
	1024x768		
Advance	Aptio Setup Utility d	– Copyright (C) 2021 Ame	erican Megatrends, Inc.
TPM20 Device Found Firmware Version:		5.63 IFX	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during
Security Dev Active PCR b Available PC	v <mark>ice Support</mark> banks R banks	[Enable] SHA-1,SHA256 SHA-1,SHA256	restart in order to change State of Security Device.
SHA-1 PCR Bank SHA256 PCR Bank		[Enabled] [Enabled] —— Pending operation -	
Pending operation Platform Hierarchy Storage Hierarchy Endorsement Hierarchy		None TPM Clear	++: Select Screen ↑↓: Select Item
TPM2.0 UEFI Physical Pre TPM 20 Inter	Spec Version sence Spec Version faceType	[TCG_2] [1.3] [TIS]	Enter: Select +/-: Change Opt. F1: General Help 52: Reviews Values
Device Selec	st.	(HUTO)	F3: Optimized Defaults F4: Save & Exit ESC: Exit
	Version 2.20,1275.	Copyright (C) 2021 Ameri	ican Megatrends. Inc.
Field Name	Pending operation	n	
Default Value	[None]		
	-		

Possible Value None TPM Clear

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3.4.5 Trusted Computing

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration Network Stack Configuration 	Trusted Computing Settings →+: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

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

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Field Name	Platform Hierarchy
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

 CPU Configuration Power & Performance 	System ACPI Parameters.
 PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration 	
▶ Network Stack Configuration	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

Aptio Setup Utility – Copyright (C) 2021 American Main <mark>Advanced</mark> Chipset Security Boot Save & Exit	Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration 	System Super IO Chip Parameters.
▶ Network Stack Configuration	<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

3.4.7.1 Secial Port 1 Configuration

	Aptio Setup Utility -	Copyright (C) 2021 American	Megatrends, Inc.
Advance	ed		
IT8786 Super	IO Configuration		Set Parameters of Serial Port
Super IO Chip ▶ Serial Port 1 ▶ Serial Port 2	Configuration Configuration	IT8786	<pre>++: Select Screen ++: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
	Version 2.20.1275. C	opyright (C) 2021 American M	legatrends, Inc.
Field Name	Serial Port		
Default Value	[Enabled]		

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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

3.4.7.2 Secial Port 2 Configuration

Aptio Setup Utility Advanced	– Copyright (C) 2021 America	n Megatrends, Inc.
IT8786 Super IO Configuration		Set Parameters of Serial Port 2 (COMB)
Super IO Chip ▶ Serial Port 1 Configuration ▶ Serial Port 2 Configuration	IT8786	<pre>**: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.20.1275.	Copyright (C) 2021 American	Megatrends, Inc.

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

Aptio Setup Utility – Copyright (C) 2021 American Main <mark>Advanced </mark> Chipset Security Boot Save & Exit	Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings ITB786 Super ID Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration 	Monitor hardware status
Network Stack Configuration	<pre>++: Select Screen t4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

3.4.8.1 Smart Fan Function

Aptio Setup U Advanced	tility – Copyright (C) 2021 Am	merican Megatrends, Inc.
Pc Health Status PCH temperature DDR temperature CPU temperature System Fan Speed	: +35 C : +32 C : +54 C : 1757 RPM	Smart Fan function setting
+VCORE +1.2V_DDR +12V SV 3V3 ▶ Smart Fan Function	: +0.816 V : +1.200 V : +11.952 V : +5.160 V : +3.316 V	
		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.20	.1275. Copyright (C) 2021 Amer	rican Megatrends, Inc.

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Field Name	FAN_CTL Polarity
Default Value	[Active high]
Possible Value	Active low
	Active high
Field Name	Smoothing control
Default Value	[4Hz]
Possible Value	1Hz
	16Hz
	8Hz
	4Hz

3.4.8.2 System Fan Setting

Aptio Setup Utility Advanced	– Copyright (C) 2021 Americar	n Megatrends, Inc.
Advanced FAN_CTL Polarity Smoothing control ► System Fan Setting	[Active high] [4Hz]	Smart Fan function setting ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1275.	Copyright (C) 2021 American ⊧	legatrends, Inc.

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

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

3.4.9 PCI Subsystem Settings

Main Advanced Chipset Security Boot Save & Exit	n Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration 	PCI, PCI-X and PCI Express Settings.
▶ Network Stack Configuration	<pre> ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

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3.4.10 USB Configuration

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings ITB786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration Network Stack Configuration 	<pre>USB Configuration Parameters </pre>
Version 2.20.1275, Copyright (C) 2021 American M	egatrends. Inc.

Field Name	Legacy USB Support
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

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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

3.4.11 CSM Configuration

Main Advance	p <mark>tio Setup Utility – Copyright (C) 2021 Ameri</mark> <mark>- Chipset Security Boot Save & Exit</mark>	can Megatrends, Inc.
Adviced Chipset Security Boot Save & Exit Main Advanced Chipset Security Boot Save & Exit CPU Configuration Prower & Performance PCH-FW Configuration AMT Configuration AMT Configuration ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration NVMe Configuration Network Stack Configuration Version 2.20.1275. Copyright (C) 2021 American		CSM configuration: Enable/Disable, Option ROM execution settings, etc.
	Version 2.20.1275. Copyright (C) 2021 America	n Megatrends, Inc.
Field Name	CSM Support	
Default Value	[Disabled]	

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Possible Value Disabled

Enabled

3.4.12 NVMe Configuration





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3.4.13 Network Stack Configuration

Aptio Setup Utility – Copyright (C) Main Advanced Chipset Security Boot Save &	2021 American Megatrends, Inc. Exit
 CPU Configuration Power & Performance PCH-FW Configuration AMT Configuration Trusted Computing ACPI Settings IT8786 Super IO Configuration Hardware Monitor PCI Subsystem Settings USB Configuration CSM Configuration NVMe Configuration Network Stack Configuration 	Network Stack Settings ++: Select Screen f↓: Select Item
Version 2.20.1275. Copyright (C) 2	Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Field Name Network Stack	

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

Aptio Setup Utility Main Advanced Chipset Security	– Copyright (C) 2021 American Boot Save & Exit	Megatrends, Inc.
 ▶ System Agent (SA) Configuration ▶ PCH-IO Configuration 		<pre>>ystem Agent (SA) Parameters ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.20,1275.	Copyright (C) 2021 American M	egatrends, inc.
Aptio Setup Utility Chipset	– Copyright (C) 2021 American	Megatrends, Inc.
System Agent (SA) Configuration		Graphics Configuration
SA PCIe Code Version VT-d	7.0.112.32 Supported	
▶ Graphics Configuration Above 4GB MMIO BIOS assignment	[Disabled]	
		<pre>++: Select Screen t4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

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PEG
PCI
SG

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	OM
	32M
	64M
	4M
	8M
	12M
	16M
	20M
	24M
	28M
	32M/F7

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36M
40M
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



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3.5.2.1 PCI Express Configuration

Aptio Setup Utility - Chipset	Copyright (C) 2021 American	Megatrends, Inc.
PCH−IO Configuration > PCI Express Configuration > SATA And RST Configuration > Security Configuration		PCI Express Configuration settings
PCH LAN Controller Wake on LAN Enable State After G3 SPD Write Disable	[Enabled] [Enabled] [S5 State] [TRUE]	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2 20 1275. Co	nuright (C) 2021 American M	egatrends Inc

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

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P	CI Express C	onfigura	tion		PCI Express Root Port Settings.
Pi Pi	CIE Port ass CIe function	igned to <mark>swap</mark>	LAN	9 [Disabled]	
	CI Express R CI Express R	and Port and Port	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Shadowed by x2/x4 port Shadowed by x2/x4 port Reserved for ethernet Shadowed by x2/x4 port Shadowed by x2/x4 port Shadowed by x2/x4 port Lane configured as USB/SATA Lane configured as USB/SATA	++: Select Screen †1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
			0.00.4075	Convertet (C) 2021 Amonicon	

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PCI Express Root Port 1	[Enabled]	▲ Control the PCI Express Root
Disable Gen2 Pll Shutdown and L1	[Disabled]	Port.
Controller Power gating		
Connection Type	[Slot]	
ASPM 0	[Auto]	
L1 Substates	[L1.1 & L1.2]	
Gen3 Eq Phase3 Method	[Hardware]	
UPTP	5	
DPTP	7	
ACS	[Enabled]	
PTM	[Enabled]	
DPC	[Enabled]	
EDPC	[Enabled]	
URR	[Disabled]	++: Select Screen
FER	[Disabled]	↑↓: Select Item
NFER	[Disabled]	Enter: Select
CER	[Disabled]	+/-: Change Opt.
СТО	[Disabled]	F1: General Help
SEFE	[Disabled]	F2: Previous Values
SENFE	[Disabled]	F3: Uptimized Defaults
SEUE DNE COT	[Disabled]	F4: Save & Exit
Hot Plug	[Disabled]	LOU. EXIL
Advanced Ennon Reporting	[Enabled]	
Pete Speed	[Outo]	

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

Chipset	– Copyright (C) 2021 Americar	h Megatrends, Inc.
PCH-IO Configuration		SATA Device Options Settings
 PCI Express Configuration SATA And RST Configuration Security Configuration 		
PCH LAN Controller Wake on LAN Enable State After G3 SPD Write Disable	[Enabled] [Enabled] [S5 State] [TRUE]	
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F2: Optimized Defaults
		F4: Save & Exit ESC: Exit

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

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Field Name	Port 2
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

Aptio Setup Utility - Chipset	Copyright (C) 2021 American	Megatrends, Inc.
PCH-IO Configuration		Security Configuration settings
 PCI Express Configuration SATA And RST Configuration Security Configuration 		
PCH LAN Controller Wake on LAN Enable State After G3 SPD Write Disable	[Enabled] [Enabled] [S5 State] [TRUE]	
		<pre>++: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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

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Field Name	BIOS Lock
Default Value	[Enabled]
Possible Value	Disabled
	Enabled

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

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3.6 Security

3.6.1 Administrator Password

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset <mark>Security</mark> Boot Save & Exit	Megatrends, Inc.
Password Description 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 Administrator Password User Password	Set Administrator Password ++: Select Screen t4: Select Item Enter: Select +/-: Change Opt. E1: General Hein
HDD Security Configuration: P4:TS128GSSD230S Secure Boot Version 2.20.1275. Copyright (C) 2021 American Me	F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset <mark>Security</mark> Boot Save & Exit	Megatrends, Inc.
Password Description 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 Maximum length Administrator Password	Set Administrator Password →+: Select Screen ↑↓: Select Item
User Password ▶ Secure Boot	Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

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3.6.2 User Password

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset <mark>Security </mark> Boot Save & Exit	Megatrends, Inc.
Aptio Setup Utility - Copyright (C) 2021 American Main Advanced Chipset Security Boot Save & Exit Password Description 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 Maximum length Administrator Password User Password Secure Boot	Megatrends, Inc. Set User Password ++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F3: Optimized Defaults F4: Save & Exit ESC: Exit
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3.6.3 Secure Boot

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 Administrator Password User Password Secure Boot	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
version 2.20.1275. Copyright (C) 2021 Amer	ican Megatrenos, inc.

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

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Field Name	Secure Boot Mode
Default Value	[Custom]
Possible Value	Standard
	Custom

3.6.3.1 Restore Factory Keys

Aptio Setup	Utility – Copyright (C) 202 Security	1 American Megatrends, Inc.
System Mode	Setup	Force System to User Mode.
Secure Boot	[Disabled] Not Active	Boot key databases
Secure Boot Mode ▶ Restore Factory Keys ▶ Reset To Setup Mode	[Custom]	
▶ Key Management Press 'Yes' to proceed 'No' to cancel elect Screen		
	Ves	No elect Item : Select Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2	20 1275 Conveight (C) 2021	American Megatrends Inc

3.6.3.2 Key Management

Aptio Setu	p Utility – Copyright (C) 2021 Am Security	merican Megatrends, Inc.
System Mode	Setup	Enables expert users to modify Secure Boot Policy variables
Secure Boot	[Disabled] Not Active	without full authentication
Secure Boot Mode ► Restore Factory Keys ► Reset To Setup Mode ► Key Management	[Custom]	
		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2	2.20.1275. Copyright (C) 2021 Amer	ican Megatrends, Inc.

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

3.6.3.3 Install factory defaults



3.6.3.4 File System



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3.6.3.5 File System



3.6.3.6 Restore DB defaults



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3.6.3.7 Platform Key(PK)



3.6.3.8 Key Exchange keys

Aptio Setup	Utility – Copyright (C) 2021 Ame Security	erican Megatrends, Inc.
Vendor Keys Factory Key Provision ▶ Restore Factory Keys ▶ Reset To Setup Mode ▶ Export Secure Boot variab) ▶ Enroll Efi Image	Valid [Disabled] es	Enroll Factory Defaults or load certificates from a file: 1.Public Key Certificate: a)EFI_SIGNATURE_LIST b)EFI_CERT_X509 (DER) c)EFI_CERT_RSA2048 (bin) d)EFI_CERT_SHAXXX 2.Authenticated UEFI Variable
Device Guard Ready ▶ Remove 'UEFI CA' from DB ▶ Restore DB defaults Secure Boot variable Siz	Key Exchange Keys	3.EFI PE/COFF Image(SHA256) Key Source: Factory,External,Mixed
 Platform Key(PK) Key Exchange Keys Authorized Signatures Forbidden Signatures Authorized TimeStamps OsRecovery Signatures 	0 0 0 No Keys 0 0 No Keys 2 33 External 0 0 No Keys 0 0 No Keys	++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
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3.6.3.9 Authorized Signatures



3.6.3.10 Forbidden Signatures



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3.6.3.11 Authorized Time Stamps



3.6.3.12 OS Recovery Signatures



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3.7 Boot

Aptio Setup Utility – Copyright (C) 2021 American Megatrends, Inc. Main Advanced Chipset Security <mark>Boot</mark> Save & Exit		
Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot	1 [Off] [Enabled]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Boot Option Priorities Fast Boot	[Disable Link]	
		++: Select Screen †4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1275. Copyright (C) 2021 American Megatrends, Inc.		

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

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3.8 Save & Exit

3.8.1 Save Changes and Exit

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot <mark>Save & Exit</mark>	Megatrends, Inc.
Save Options Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Changes Discard Changes Default Options Restore Defaults Save as User Defaults Restore Defaults	Exit system setup after saving the changes.
Boot Override	<pre>t1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2 20 1275 Convright (C) 2021 American Me	edatrends Inc

3.8.1.1 Save & Exit Setup

Aptio Setup Main Advanced Chipset	tility – Copyright (C) 2021 American Accurity Boot Save & Exit	Megatrends, Inc.
Save Options Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Changes Discard Changes Default Options Restore Defaults Save as User Defaults Restore User Defaults Boot Override	Save & Exit Setup Save configuration and exit? Yes No	Exit system setup after saving the changes. ★: Select Screen ↓: Select Item nter: Select /-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.2	1275. Copyright (C) 2021 American M	egatrends, Inc.

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3.8.2 Exit without Saving



3.8.3 Save & reset

Aptio Setup Main Advanced Chipset	Utility – Copyright (C) 2021 American Security Boot Save & Exit	Megatrends, Inc.
Save Options Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Changes Discard Changes Default Options Restore Defaults Save as User Defaults Restore User Defaults Boot Override	Save & reset Save configuration and reset? Yes No	Reset the system after saving the changes.
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3.8.4 Reset Without Saving



3.8.5 Save Setup Values

Aptio Setup Utility – Main Advanced Chipset Security	Copyright (C) 2021 American Boot Save & Exit	Megatrends, Inc.
Main Advanced Chipset Security Save Options Save Changes and Exit Discard Changes and Exit Discard Changes and Reset Discard Changes Discard Changes Discard Changes Discard Changes Discard Changes Default Options Restore Defaults Save as User Defaults Boot Override Discard Override	Save Setup Values – Save configuration? Yes No	Save Changes done so far to any of the setup options. ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1275. C	opyright (C) 2021 American M	egatrends, Inc. 移

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3.8.6 Load Previous Values



3.8.7 Load Optimized Defaults

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot <mark>Save & Exit</mark>	Megatrends, Inc.
Save Options Save Changes and Exit Discard Changes and Reset Discard Changes Discard Changes Default Options Restore Defaults Save as User Defaults Restore User Defaults Boot Override	Restore/Load Default values for all the setup options. →+: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
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3.8.8 Save Values as User Defaults



3.8.9 Restore User Defaults

Aptio Setup Utility – Copyright (C) 2021 American Main Advanced Chipset Security Boot <mark>Save & Exit</mark>	Megatrends, Inc.
Save Options Save Changes and Exit Discard Changes and Reset Discard Changes and Reset Save Changes Discard Changes Discard Changes Default Options Restore Defaults Save as User Defaults Restore User Defaults? Boot Override	Restore the User Defaults to all the setup options.
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