

CW-U1-1U 6L-N100 N305 Motherboard User Manual

1U-ADLN-6L. V1.0 Series

Ver1.1

- To assist you in using the product, please read the [User Manual] carefully.

You can find the version of the motherboard labeled as [VER.X], where X.X represents numbers (e.g., [VER:1.1] indicates the version is 1.1). When updating the motherboard's BIOS, drivers, or referencing other technical materials, please pay attention to the product version label.

Safety Precautions

1. Please read the product manual carefully before using this product.
2. Store uninstalled boards in anti-static protective bags.
3. Before taking a board out of the anti-static protective bag, touch a grounded metal object (like for 10 seconds) to discharge static electricity from your body and hands.
4. Wear anti-static gloves when handling boards, and develop a habit of only touching the edges.
5. To avoid electric shock or damage to the product, turn off the AC power before inserting or removing boards or making adjustments. Always turn off the AC power before moving the board or the entire unit.
6. When adding or removing boards from the whole product, ensure the AC power is turned off.
7. Always turn off the AC power before connecting or disconnecting any devices.
8. To avoid unnecessary damage from frequent power cycling, wait at least 30 seconds after shutting down before turning the power back on.

Revision History			
Revision	Date	Description	Author
V1.0	2024-06-17	Initial Release	

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Chapter 1: Introduction

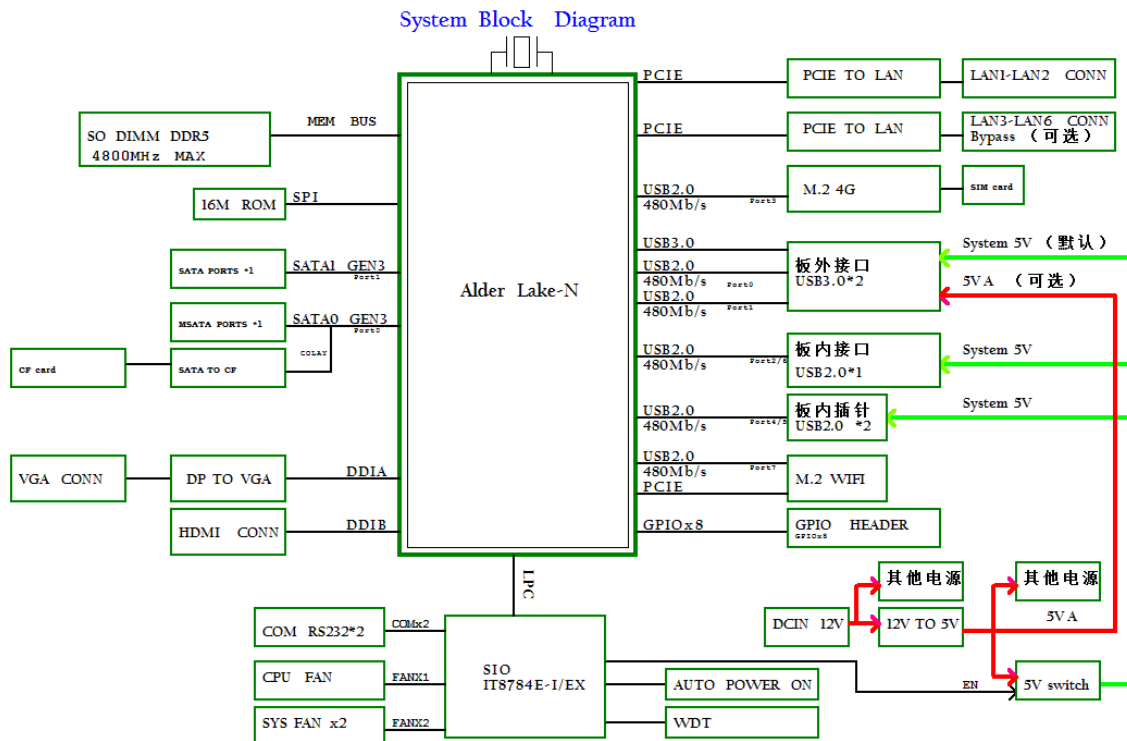
1.1. Accessories Included:

- LAN-ADLN-6L V1.0 Motherboard x 1
- Cables, boards, and other components (varies by order; please contact us if needed)
- Warranty card
- Certificate of conformity

* The above accessories are for reference only; actual accessories may vary.

* Due to ongoing updates to motherboard specifications and BIOS software, changes to this manual will not be separately announced. All information is for reference only; please refer to the actual product or check online for updates.

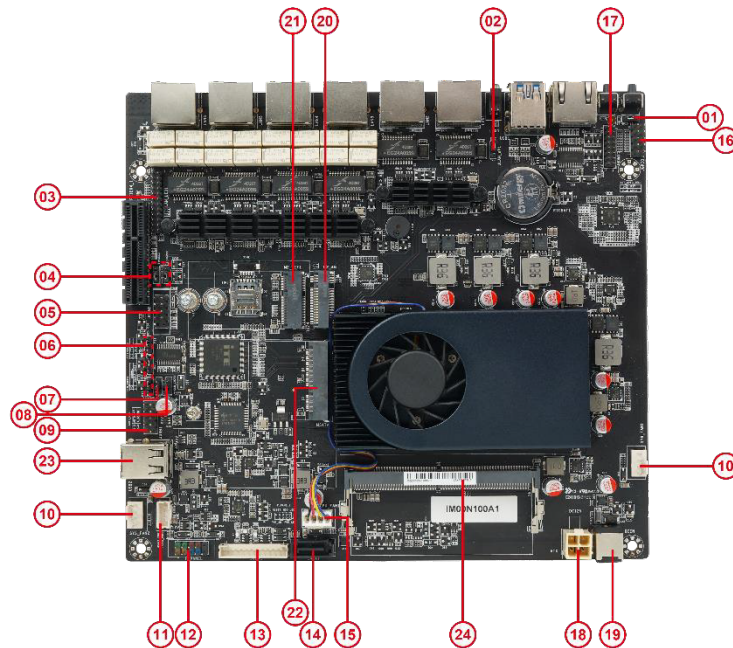
Block Diagram



1.2. Motherboard Specifications

Motherboard Size	- 200mmX180mm
CPU	- Intel® Alder Lake-N (N100/N95/N305) Processor
Memory	- 1 x DDR5 SO-DIMM slot - Max 4800 MHz; supports up to 48GB
Storage	- 1 x mSATA slot (can be optional as 1 x CF card slot); 1 x SATA 3.0 slot
Expansion Slot	- 1x M.2 B Key, supports 4G/5G module expansion; 1x M.2 E Key, supports WiFi/Bluetooth module expansion, can be optionally configured as 1x PCIe4 slot (X1 signal)
Back Panel Interfaces	- 1x RST_BT1 button (default restart function, can switch to GPIO trigger function) - 1x PWR_BT1 button (power on/off) - 1x RJ45_COM1 port - 2x USB 3.0 ports - 1x LED indicator (green power LED, red hard disk LED) - 6x LAN ports
Internal Interfaces	- 2x USB 2.0 pins (Type-A, inward-facing, for connecting encryption cards) - 1x LAN_LED header - 1x COM header - 1x USB header (can expand to 2x USB 2.0) - 1x SATA header - 1x SATA_PWR header - 1x F_PANEL header - 1x VGA header - 2x SFAN headers - 1x ATX power socket - 1x CFAN header - 1x GPIO header (4 channels) - 1x HDMI header
BIOS	- AMI BIOS
Power Management	- Supports advanced power management ACPI - Supports Wake-on-LAN S3, S4, S5 - Supports power on boot
Display	- Supports VGA + HDMI, dual display asynchronous
Backlight Adjustment	/
Network	- 6x Intel i226V Gigabit Ethernet (2.5G)
Audio	/
I/O Chip	-1 x IT8786E
Power Supply	- DC / 4-Pin ATX 12V power supply
Operating Environment	- Operating temperature: 0°C ~ 60°C - Environmental humidity: 0% ~ 95%
Operating Systems	Win10/Win11/Linux

1.3 Motherboard Layout Diagram

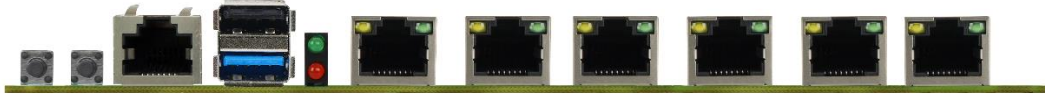


(Image for reference only, actual product may vary)

Item		Description
1	RST_GPIO_SEL1	RST, GPIO function selection jumper
2	JLAN_WP1	Ethernet port protection pin (can lock MAC address)
3	LAN_LED1	Ethernet port indicator light
4	BYPASS1/2	Bypass function selection
5	JCOM2	Built-in serial port pin
6	JC21/22/23	TTL/RS232 selection jumper for COM ports
7	AUTO_ON	Auto power-on selection jumper
8	CLR_CMOS	CMOS clear pin
9	JUSB1	Built-in USB pin
10	SYS_FAN1/2	System cooling fan socket
11	SATA_PWR1	SATA power interface
12	F_PANEL1	Motherboard switch pin
13	JVGA	Built-in VGA pin
14	SATA1	SATA interface
15	CPU_FAN	CPU cooling fan socket
16	GPIO1	GPIO pin
17	JHDMI1	Built-in HDMI interface
18	ATX1	4-PIN ATX power socket 12V
19	DCIN1	Front panel 12V power interface
20	M2_4G1	M.2 B KEY slot (supports 4G module)
21	M2_WIFI	M.2 E KEY slot (supports WiFi module)
22	MSATA1	mSATA slot (optional CF card slot)

23	USB2	2x Type-A (inward-facing), for connecting encryption cards
24	SODIMM	1x SO-DIMM DDR5 memory slot

1.3.1 Rear IO Interfaces



Item	Description
RST_BT1	Default restart function, can switch to GPIO trigger function
PWR_BT1	Power on/off button
RJ45_COM1	RJ45 serial port
USB1	2*USB3.0
LED1	LED indicator: green power light, red hard drive light
LAN1-6 (LAN1/2 supports Wake-on-LAN; LAN3/4 and LAN5/6 support optional Bypass)	Link LED: green steady on, indicates network connection
	Link LED: green steady on, indicates network connection

Chapter 2: Motherboard Installation

Safety Notice:

- Do not tear off the serial number or warranty stickers on the motherboard before installation, as this may affect the product warranty validity.
- Turn off the power and unplug the power cord from the socket before installing or removing the motherboard or other hardware devices.
- When installing other hardware devices into the motherboard sockets, ensure that the connectors and sockets are securely connected.
- When installing other hardware devices into the motherboard sockets, ensure that the connectors and sockets are securely connected.
- When handling the motherboard, CPU, or memory modules, it is best to wear an anti-static wrist strap. If you don't have one, make sure your hands are dry and touch a metal object to discharge static electricity.
- Before installation, place the motherboard on an anti-static mat or in an anti-static bag.
- When unplugging the power connector from the motherboard, ensure that the power supply is turned off.
- Before turning on the power, verify that the voltage setting on the power supply matches the local voltage standard.
- Before turning on the power, verify that the voltage setting on the power supply matches the local voltage standard.
- Do not let screws touch the motherboard's circuits or components to avoid damage or malfunction.
- Ensure that no screws or metal objects are left on the motherboard or inside the computer case.
- Do not place the computer case on an unstable surface.
- Do not place the computer case in an excessively hot environment.
- Turning on the power during installation may cause damage to the motherboard, other devices, or injury to yourself.
- If you are unfamiliar with the installation process or encounter any technical issues with the product, please consult a professional technician.

2.1 Memory Installation

This motherboard provides 1x DDR5 SO-DIMM memory slot.

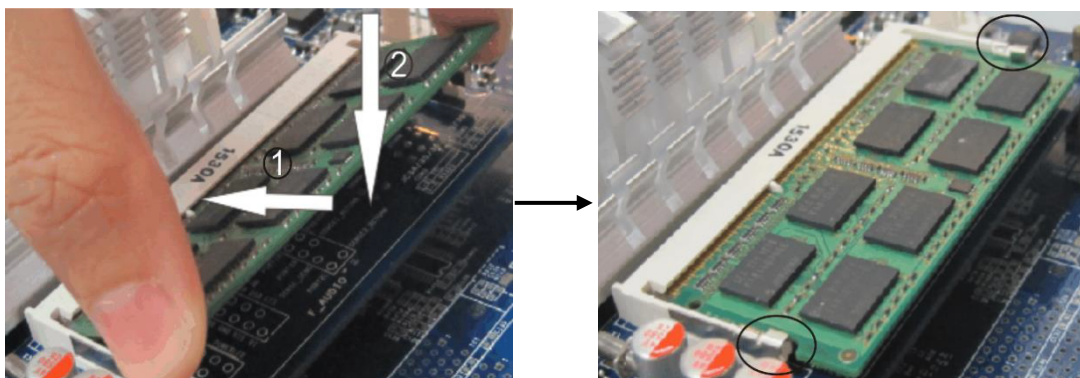
Before starting the memory installation, please note the following information:

1. Confirm that the memory you purchased is compatible with the specifications supported by this motherboard.
2. Before installing or removing memory, ensure that the computer's power is turned off to avoid damage.
3. The memory is designed with a foolproof indicator; if you insert it incorrectly, the memory will not fit. Please adjust the insertion direction immediately.

Installing Memory:

1. Before installing or removing memory, turn off the power and unplug the AC power cord.
2. Carefully hold the memory module by its ends, avoiding contact with the metal contacts.
3. Align the gold fingers of the memory module with the memory slot, ensuring that the notch on the gold fingers aligns with the protruding point in the slot.
4. Insert the memory module at a 30-degree angle into the memory slot, then press it down until you hear a "click," indicating successful installation (Note: Do not apply excessive force when pressing down the memory to avoid damage).
5. To remove the memory module, push the latches on both ends of the DIMM slot outward simultaneously, then take out the memory module.

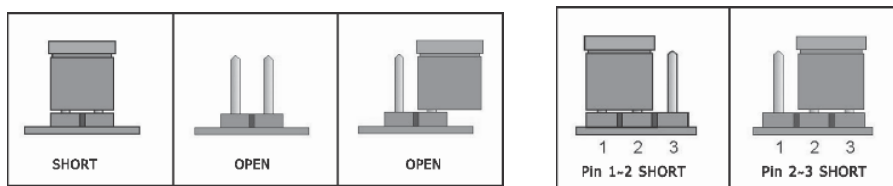
The installation diagram is for reference only:



2.2. Jumper Description

2-Pin Connector: Inserting the jumper cap onto the two pins will close (short) the connection.

3-Pin Connector: The jumper cap can be inserted onto pins 1-2 or pins 2-3 to close (short) the connection.



How to Identify the Position of Pin 1 for Jumpers?

1. Carefully inspect the motherboard; any pin marked with "1" or a thick white line indicates the position of Pin 1.
2. Check the solder pads on the back panel; typically, the square solder pad represents Pin 1.

2.3. Jumper and Pin Settings:

1. Reset and GPIO Function Selection Jumper: RST_GPIO_SEL

The motherboard provides a 1x3 pin RST_GPIO_SEL jumper (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1-2 (Default)	RST
	2-3	GPIO

2. Ethernet Port Protection Jumper: JLAN_WP1

The motherboard provides 1x 1x3 pin JLAN_WP1 jumper (pin pitch: 2.00mm), with the pin definitions as follows:

(Only supports one-time MAC address flashing)

Diagram	Pin	Definition
	1-2	Normal
	2-3	Disabled

3. Ethernet Indicator Light: LAN_LED1

The motherboard provides 1x 2x12 pin LAN indicator light interface (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	LED+	2	LAN1_ACT
	3	LED+	4	LAN2_ACT
	5	LED+	6	LAN3_ACT
	7	LED+	8	LAN4_ACT
	9	LED+	10	LAN5_ACT
	11	LED+	12	LAN6_ACT
	13	LED+	14	LAN1_1000M
	15	LED+	16	LAN2_1000M
	17	LED+	18	LAN3_1000M
	19	LED+	20	LAN4_1000M
	21	LED+	22	LAN5_1000M
	23	LED+	24	LAN6_1000M

4. Bypass Function Selection Jumper: Bypass1/2

The motherboard provides 2x 1x3 pin Bypass function selection jumpers (pin pitch: 2.00mm), with the pin definitions as follows: LAN3-6 optional

Diagram	Pin	Definition
	1-2	NORMAL
	2-3	Bypass

5. Built-in Serial Port: JCOM2

The motherboard provides 1x 2x5 pin standard COM connector (pin pitch: 2.54mm), with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	DCD	2	RXD
	3	TXD	4	DTR
	5	GND	6	DSR
	7	RTS	8	CTS
	9	RI	10	NC

6. COM Port TTL/RS232 Selection Jumper: JC21/22/23

The motherboard provides 3x 1x3 pin COM port TTL/RS232 selection jumpers (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1-2	TTL
	2-3	RS232

7. Automatic Power-On Selection Jumper: AUTO_ON1

The motherboard provides 1x 1x3 pin automatic power-on jumper (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1-2	NORMAL
	2-3 (Default)	AUTO_ON

8. CMOS Clear Pins: CLR_CMOS1

The motherboard provides 1x 1x3 pin CMOS clear pins (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1-2 (Default)	NORMAL
	2-3	Clear_CMOS

9. Built-in USB Pins: JUSB1

The motherboard provides 1x 2x5 pin (N9) F_USB1 interface (pin pitch: 2.54mm), with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	VCC +5V	2	VCC +5V
	3	USB1 Date-	4	USB2 Date-
	5	USB1 Date+	6	USB2 Date+
	7	GND	8	GND
	9	/	10	GND

10. System Cooling Fan Power Connector: SYS_FAN1/2

The motherboard provides 2x 1x4 pin (SYS_FAN1/2) cooling fan connectors (pin pitch: 2.54mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1	Ground
	2	+12V
	3	Sense
	4	Control

11. SATA Power Connector: SATA_PWR1

The motherboard provides 1x 1x4 pin SATA_PWR connector (pin pitch: 2.54mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1	+5V
	2	GND
	3	GND
	4	+12V

Optional 1x4 pin SATA_PWR Connector (pin pitch: 2.00mm):

Diagram	Pin	Definition
	1	+12V
	2	GND
	3	GND
	4	+5V

12. Front Panel Switch Pins: F_PANEL

The motherboard provides 1x 2x5 pin F-PANEL interface (pin pitch: 2.54mm), with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	HDD LED+	2	PWR LED +
	3	HDD LED-	4	PWR LED -
	5	GND	6	POWER-SW
	7	RESET-SW	8	GND
	9	GND	10	/

13. Built-in VGA Interface: VGA_H1

The motherboard provides 1x 1x12 pin VGA connector (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	GND	7	VGA_GRN
	2	VGA_VSYNC	8	GND
	3	VGA_HSYNC	9	VGA_BLUE
	4	GND	10	GND
	5	VGA_RED	11	VGA_5VDDA
	6	GND	12	VGA_5VDDCLK

14. SATA Interface: SATA

The motherboard provides 1x 1x7 pin SATA socket, with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	GND	2	TX+
	3	TX-	4	GND
	5	RX-	6	RX+
	7	GND	/	/

15. CPU Cooling Fan Power Connector: CPU_FAN

The motherboard provides 1x 1x4 pin cooling fan connector (pin pitch: 2.54mm), with the pin definitions as follows:

Diagram	Pin	Definition
	1	Ground
	2	+12V
	3	Sense
	4	Control

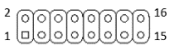
16. GPIO Pins: GPIO1

The motherboard provides 1x 2x5 pin GPIO connector (pin pitch: 2.00mm), with the pin definitions as follows:

Diagram	Pin	Definition	Pin	Definition
	1	GPIO_D0	2	GPIO_D14
	3	GPIO_D1	4	GPIO_D15
	5	GPIO_D2	6	GPIO_D16
	7	GPIO_D3	8	GPIO_D17
	9	GND	10	VCC

17. Built-in HDMI Interface: JHDMI111

The motherboard provides 1x 2x8 pin HDMI connector (pin pitch: 2.0mm), with the pin definitions as follows:

Diagram	Pin	Definiti	Pin	Definition
	HDMI_TXD2_P	1	2	HDMI_DDC_CLK_R-
	HDMI_TXD2_N	3	4	HDMI_DDC_DATA_R
	HDMI_TXD1_P	5	6	NC

	HDMI_TXD1_N	7	8	HPD_CONN
	HDMI_TXD0_P	9	10	+5V_HDMI
	HDMI_TXD0_N	11	12	GND
	HDMI_TXC0P	13	14	GND
	HDMI_TXC0N	15	16	GND

Chapter 3: BIOS Settings

3.1 BIOS Overview

This motherboard uses AMI BIOS. BIOS stands for Basic Input Output System, which is stored in a ROM (Read-Only Memory) chip on the motherboard. When you power on the computer, BIOS is the first program to run, performing the following functions:

- A. Power On Self Test (POST): Checks the computer's hardware status.
- B. Initializes and detects external devices and loads the operating system.
- C. Provides the lowest level and basic control for the hardware.
- D. Manages your computer through the BIOS Setup.

BIOS data is saved in a CMOS RAM chip on the motherboard, maintained by a 3.3V coin battery. This chip contains important system information and the BIOS Setup program for setting system parameters. Typically, there is no need to modify BIOS settings unless CMOS data is lost for other reasons.

Note:

Improper BIOS settings can directly damage computer hardware, potentially burning out the motherboard. It is advised that inexperienced users avoid modifying settings.

BIOS information in this manual may not match the actual BIOS on the motherboard due to continuous updates.

3.2 BIOS Configuration

When the motherboard is powered on or the system is rebooted, a message will appear on the POST screen prompting you to press DEL to enter BIOS Setup.



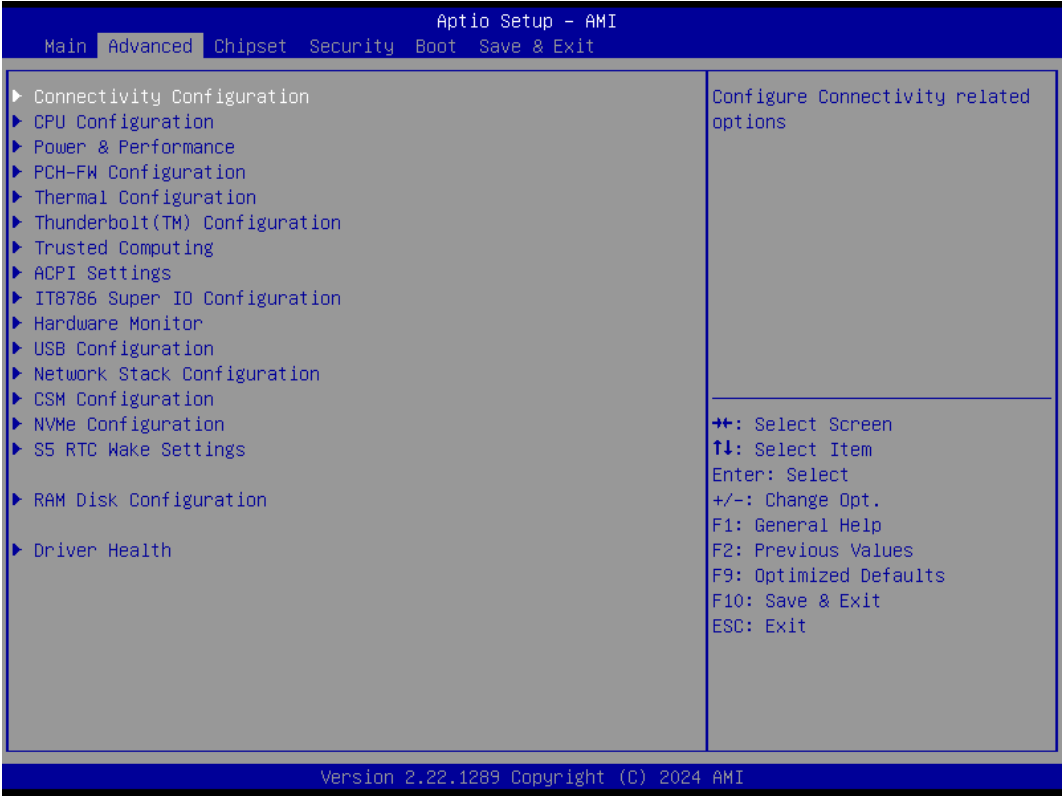
You can navigate options using the arrow keys, press <Enter> to select, and use Page Up/Page Down to change values. Press <F1> for help and <Esc> to exit. The control keys are detailed in the table below.

Control Key	Description
← / →	Move left/right to select items
↑/↓	Move up/down to select items
+ / -	Increase/decrease values or change selection
<Enter>	Select this option, enter submenu
<ESC>	Return to main screen or exit CMOS Setup
<F1>	Display related help information
<F2>	Restore previous settings
<F9>	Load optimized defaults (BIOS defaults)
<F10>	Save changes and reboot

3.2.1. Main Menu Information



3.2.2. Advanced BIOS feature configuration



3.2.3. Connectivity Configuration

Aptio Setup - AMI		
Advanced		
CNVi CRF Present	No	This option configures Connectivity. [Auto Detection] means that if Discrete solution is discovered it will be enabled by default. Otherwise Integrated solution (CNVi) will be enabled; [Disable Integrated] disables Integrated Solution. NOTE: When CNVi is present,
CNVi Configuration		
CNVi Mode	[Auto Detection]	
Wi-Fi Core	[Enabled]	
BT Core	[Enabled]	
BT Audio Offload	[Enabled]	
BT RF-Kill Delay Time	0	
RFI Mitigation	[Enabled]	
CoExistence Manager	[Disabled]	
Discrete Bluetooth Interface	[USB]	
BT Tile Mode	[Disabled]	++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Advanced settings	[Disabled]	
▶ WWAN Configuration		

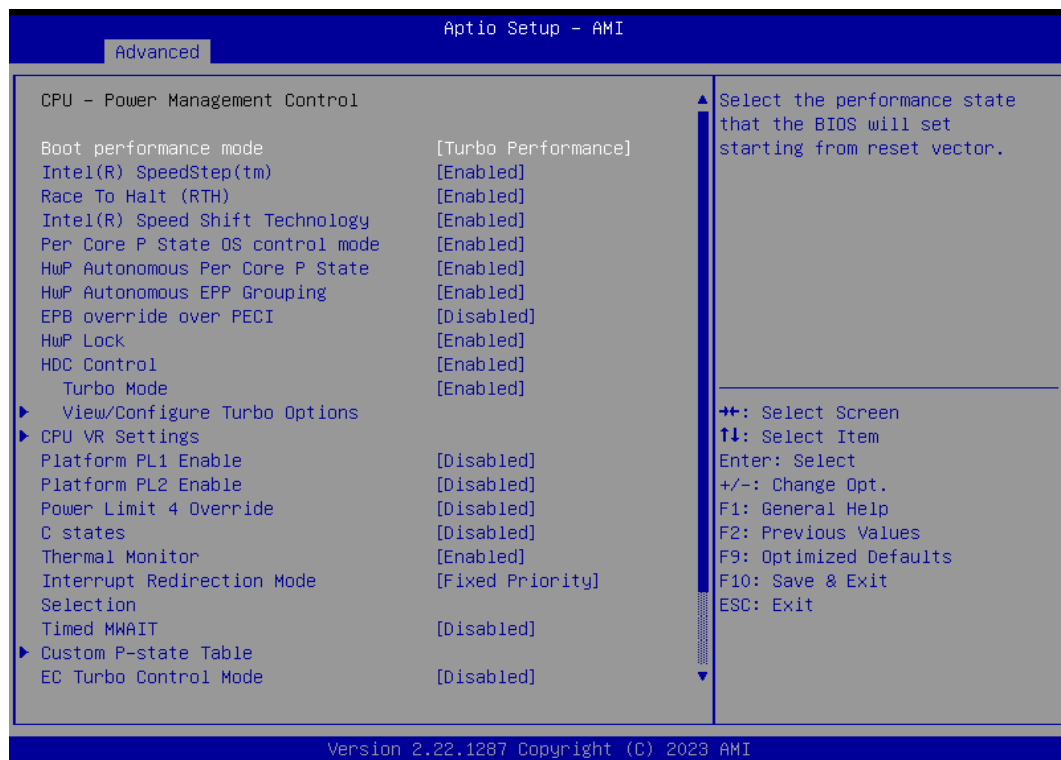
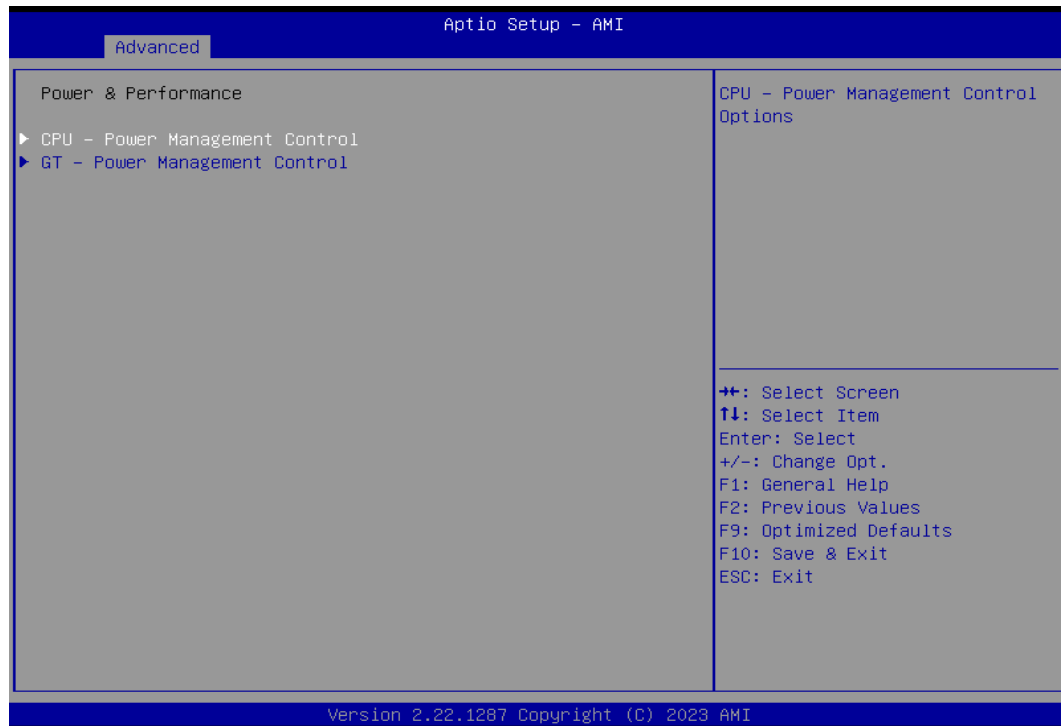
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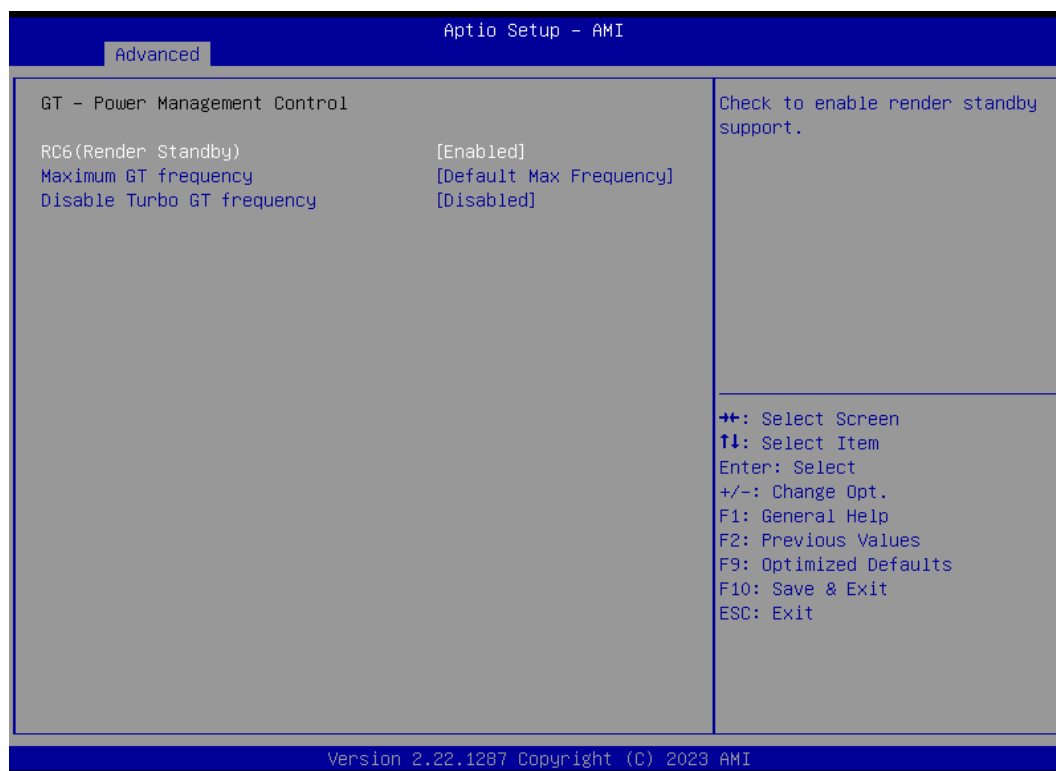
3.2.4. CPU Configuration

Aptio Setup - AMI		
Advanced		
CPU Configuration		Displays the E-core Information
▶ Efficient-core Information		
▶ Performance-core Information		
ID	0xB06E0	
Brand String	Intel(R) N95	
VMX	Supported	
SMX/TXT	Not Supported	
TXT Crash Code	0x00000000	
TXT SPAD	0x0000000000000000	
Boot Guard Status	0x00000000	
Boot Guard ACM Policy Status	0x0000000000000000	
Boot Guard SACM Information	0x0000007000000000	
C6DRAM	[Enabled]	++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
CPU Flex Ratio Override	[Disabled]	
CPU Flex Ratio Settings	17	
Hardware Prefetcher	[Enabled]	
Adjacent Cache Line Prefetch	[Enabled]	
Intel (VMX) Virtualization Technology	[Enabled]	
PECI	[Enabled]	
AVX	[Enabled]	
Active Efficient-cores	[All]	

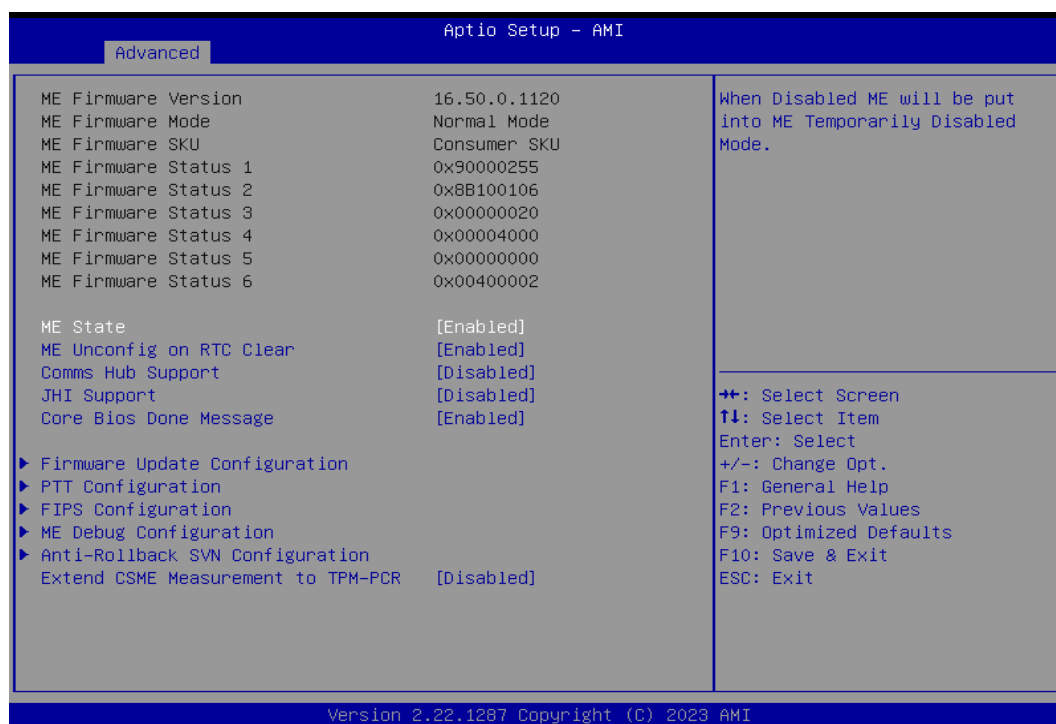
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3.2.5. Power & Performance

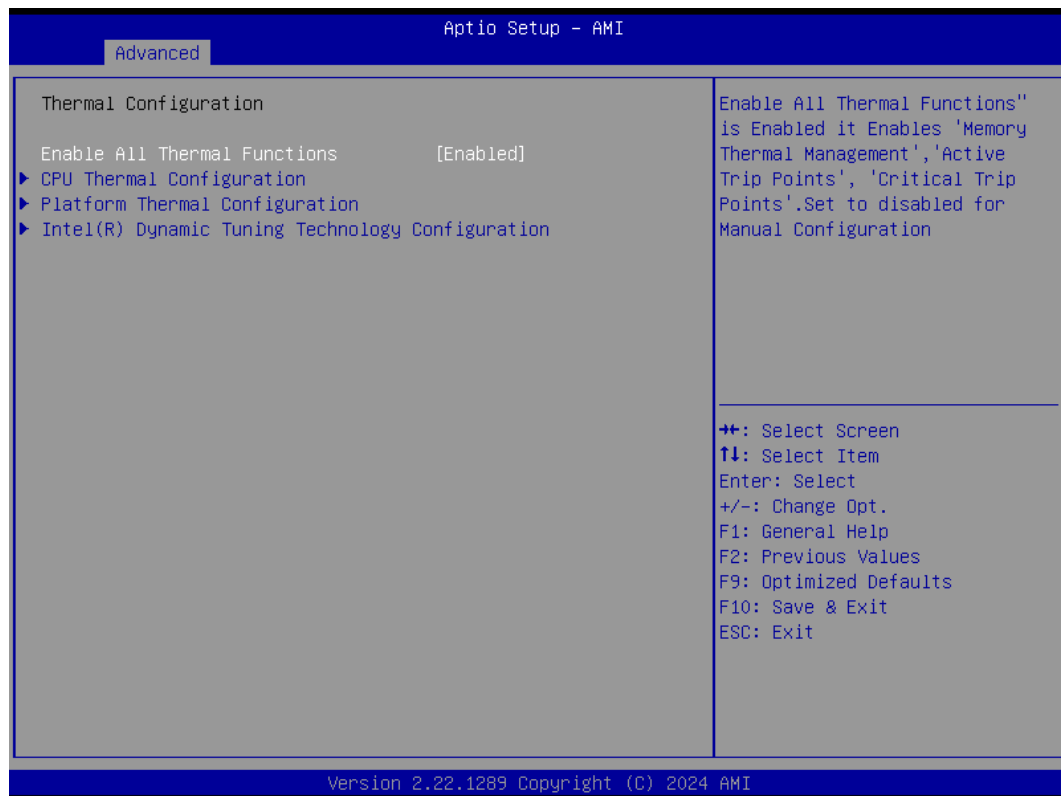




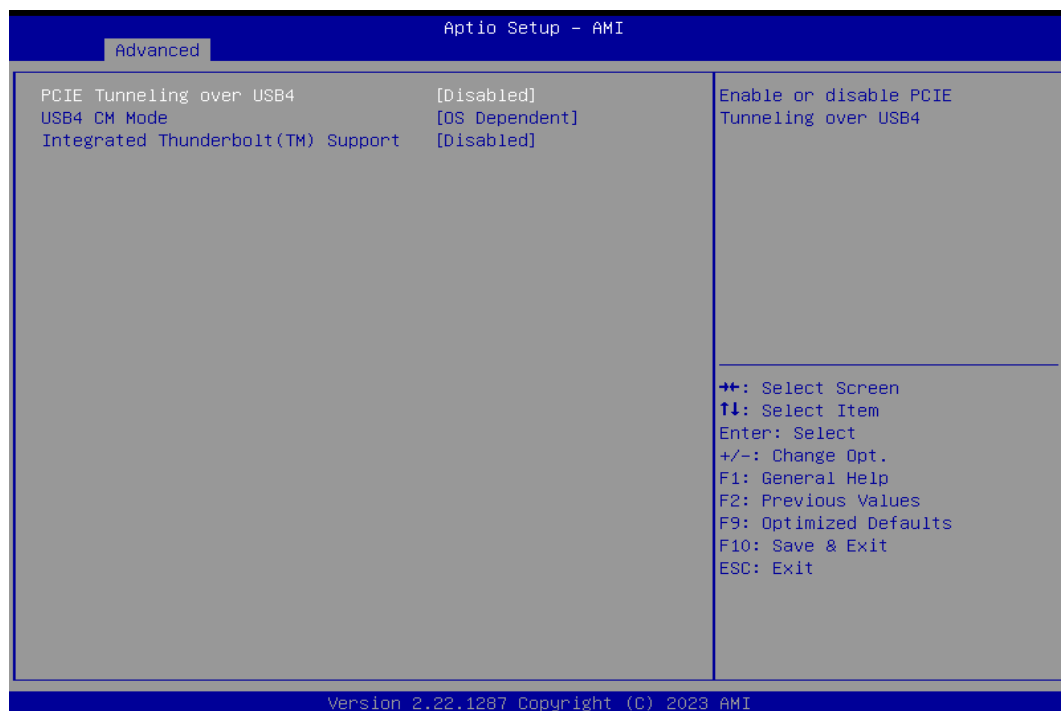
3.2.6. PCH-FW Configuration



3.2.7. Thermal Configuration



3.2.8. Thunderbolt (TM) Configuration



3.2.9. Trusted Computing

Aptio Setup - AMI		
Advanced		
TPM 2.0 Device Found		Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.
Firmware Version:	600.18	
Vendor:	INTC	
Security Device Support	[Enabled]	⬆⬆: Select Screen ⬆⬆: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Active PCR banks	SHA256	
Available PCR banks	SHA256,SHA384,SM3	
SHA256 PCR Bank	[Enabled]	
SHA384 PCR Bank	[Disabled]	
SM3_256 PCR Bank	[Disabled]	
Pending operation	[None]	
Platform Hierarchy	[Enabled]	
Storage Hierarchy	[Enabled]	
Endorsement Hierarchy	[Enabled]	
Physical Presence Spec Version	[1.3]	
TPM 2.0 InterfaceType	[CRB]	
Device Select	[Auto]	

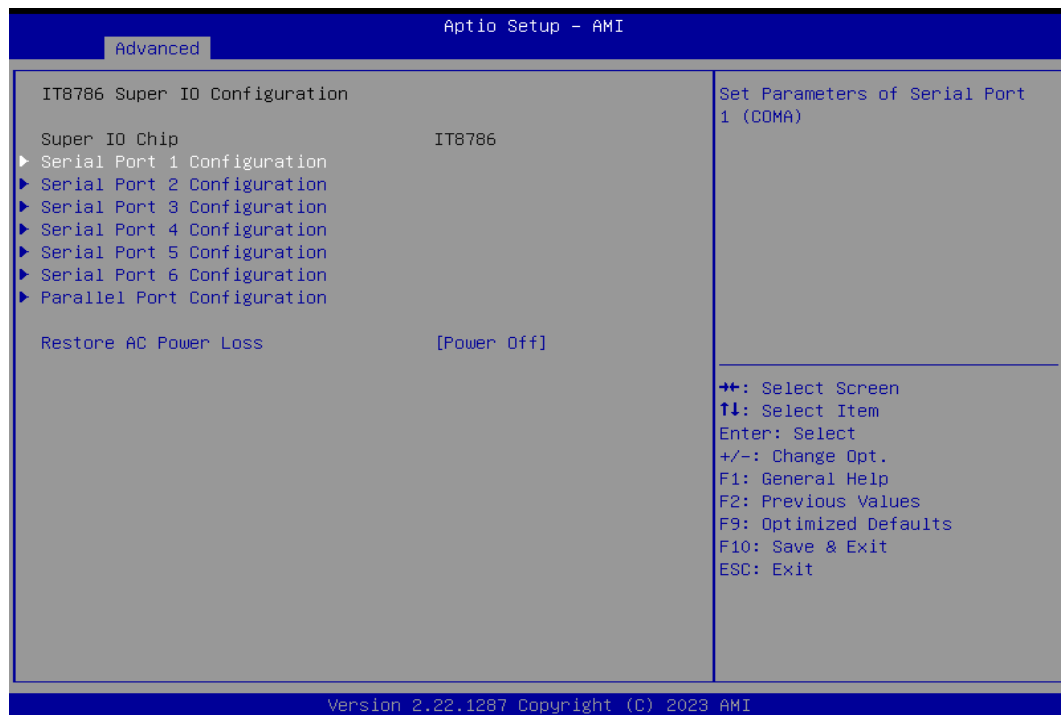
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3.2.10. ACPI Settings

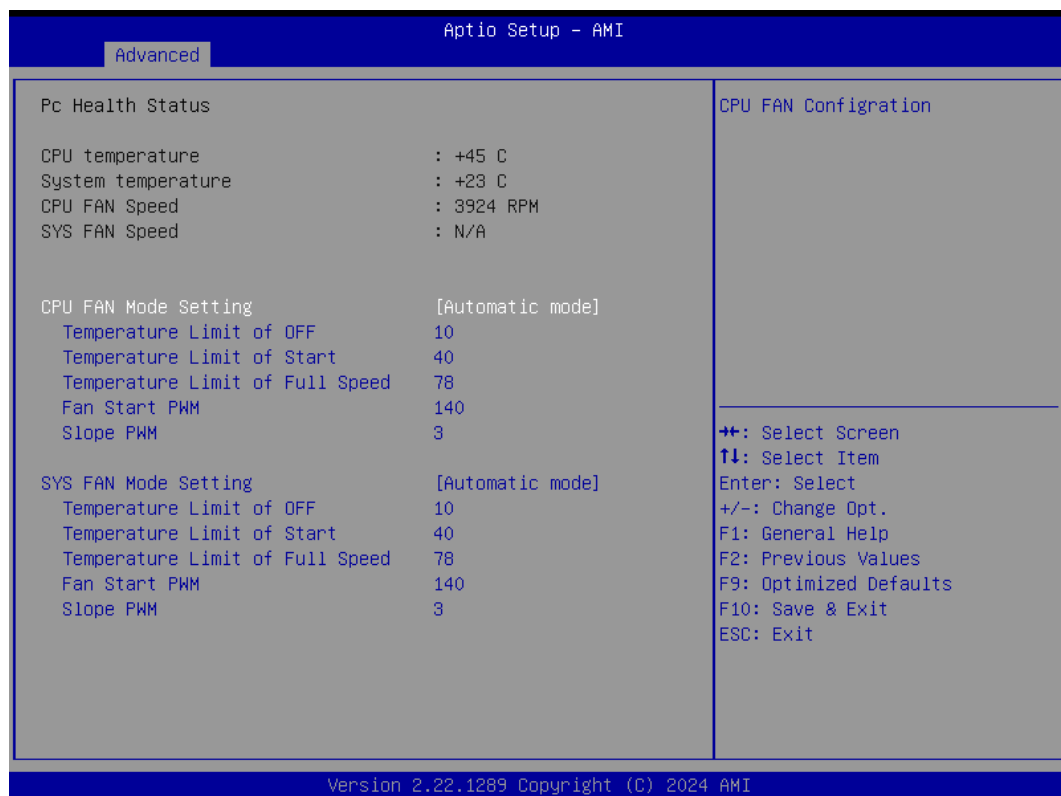
Aptio Setup - AMI		
Advanced		
ACPI Settings		Enables or Disables BIOS ACPI Auto Configuration.
Enable ACPI Auto Configuration	[Disabled]	
Enable Hibernation	[Enabled]	
ACPI Sleep State	[S3 (Suspend to RAM)]	⬆⬆: Select Screen ⬆⬆: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit

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3.2.11. Super IO Configuration



3.2.12. Hardware Monitor



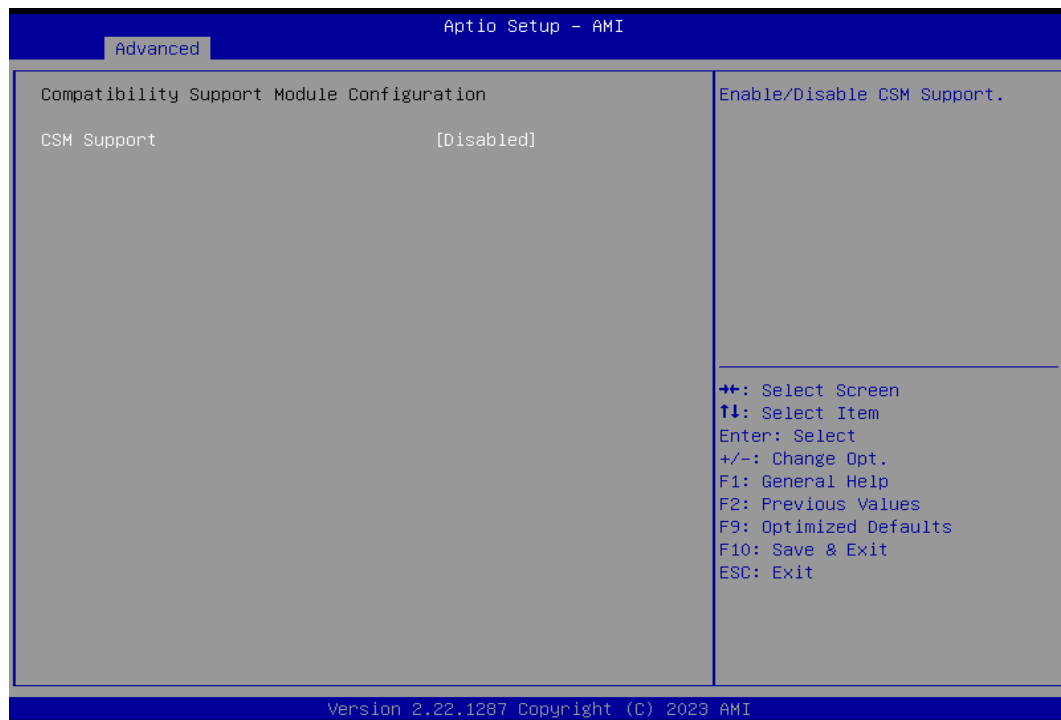
3.2.1. USB Configuration

Aptio Setup - AMI		
Advanced		
USB Configuration		Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
USB Module Version	29	
USB Controllers: 1 XHCI		
USB Devices: 1 Drive, 1 Keyboard, 1 Hub		
Legacy USB Support	[Enabled]	
XHCI Hand-off	[Enabled]	
USB Mass Storage Driver Support	[Enabled]	
USB hardware delays and time-outs:		
USB transfer time-out	[20 sec]	
Device reset time-out	[20 sec]	
Device power-up delay	[Auto]	
Mass Storage Devices:		
USB 2.0 USB Flash Drive 1100	[Auto]	
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
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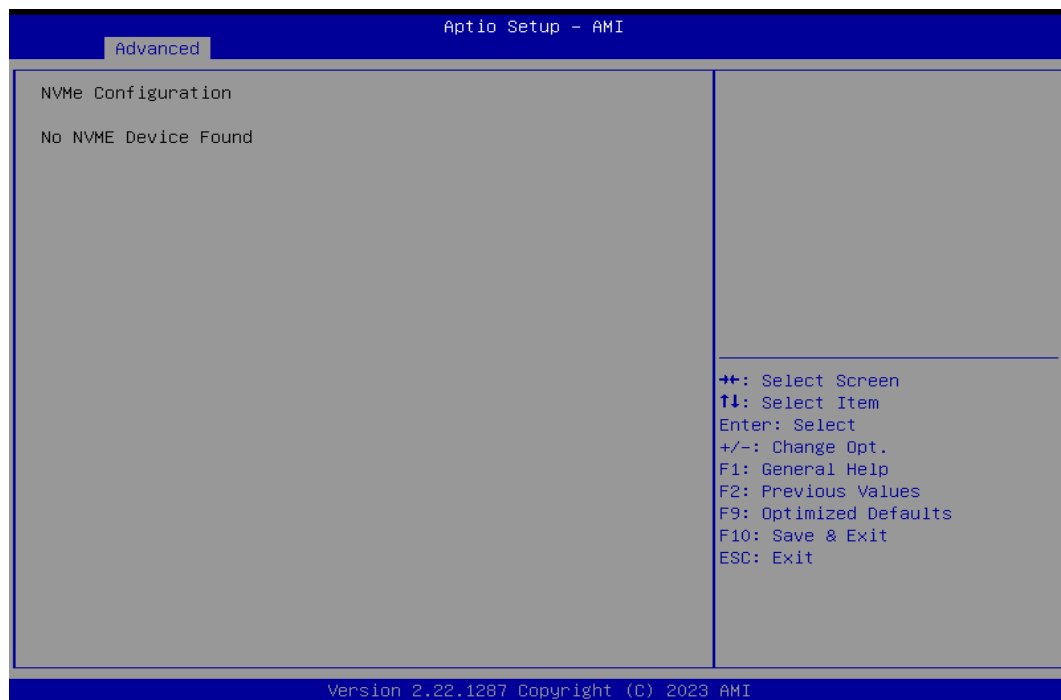
3.2.14. Network Stack Configuration

Aptio Setup - AMI		
Advanced		
Network Stack	[Disabled]	Enable/Disable UEFI Network Stack
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
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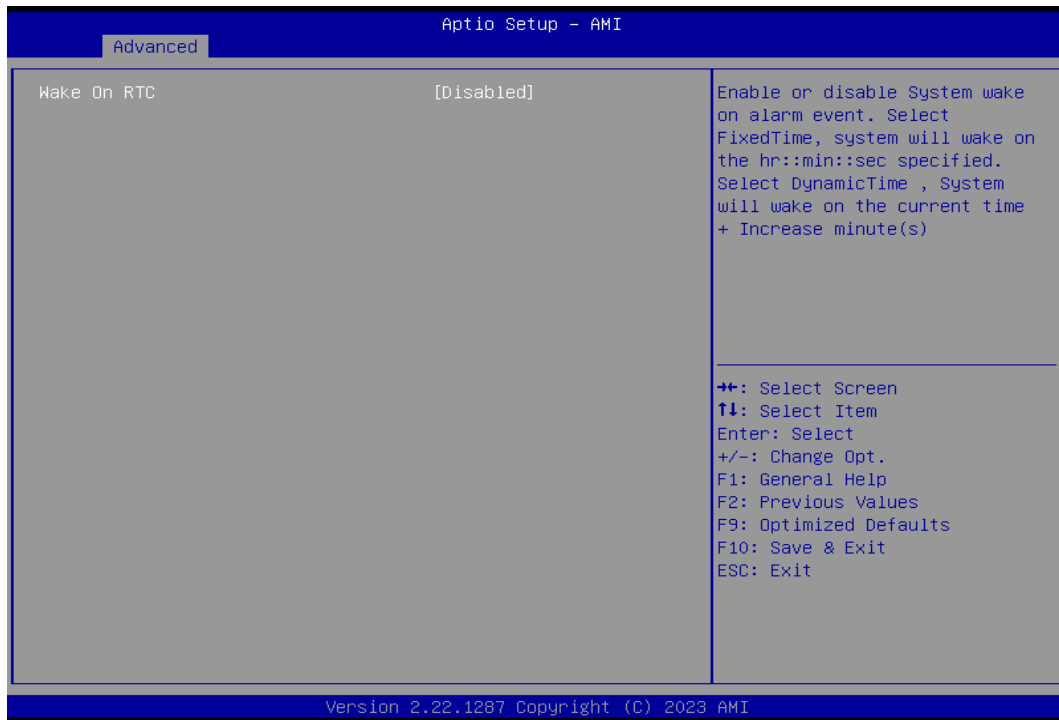
3.2.15. CSM Configuration



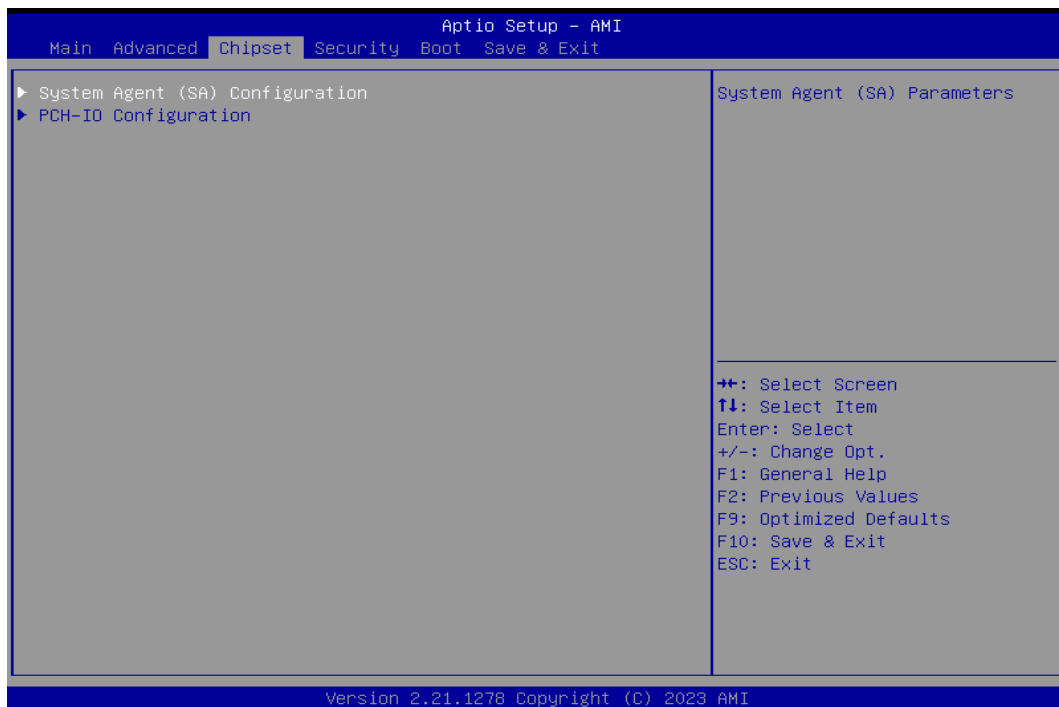
3.2.16. NVME Configuration



3.2.17. S5 RTC Wake Settings



3.2.18. Chipset Configuration



3.2.19. System Agent (SA) Configuration



3.2.20. PCH-IO Configuration



Aptio Setup - AMI		
Chipset		
PCI Express Configuration		The control of Active State Power Management of the DMI Link.
DMI Link ASPM Control	[Auto]	
Port8xh Decode	[Disabled]	
Compliance Test Mode	[Disabled]	
PCIe function swap	[Enabled]	
▶ PCIe EQ settings		
▶ PCI Express Root Port 1		
▶ PCI Express Root Port 2		
▶ PCI Express Root Port 3		
▶ PCI Express Root Port 4		
PCI Express Root Port 5	Not present in this SKU	
PCI Express Root Port 6	Not present in this SKU	
▶ PCI Express Root Port 7		
PCI Express Root Port 8	Not present in this SKU	
▶ PCI Express Root Port 9		
▶ PCI Express Root Port 10		
PCI Express Root Port 11	Lane configured as USB/SATA/UFS	
PCI Express Root Port 12	Lane configured as USB/SATA/UFS	
▶ PCIe clocks		
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
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Aptio Setup - AMI		
Chipset		
SATA Configuration		Enable/Disable SATA Device.
SATA Controller(s)	[Enabled]	
SATA Mode Selection	[AHCI]	
SATA Test Mode	[Disabled]	
Aggressive LPM Support	[Enabled]	
Serial ATA Port 0		
Software Preserve	Unknown	
Port 0	[Enabled]	
Hot Plug	[Disabled]	
Configured as eSATA	Hot Plug supported	
External	[Disabled]	
Spin Up Device	[Disabled]	
SATA Device Type	[Hard Disk Drive]	
Topology	[Unknown]	
SATA Port 0 DevSlp	[Disabled]	
DITO Configuration	[Disabled]	
DITO Value	625	
DM Value	15	
Serial ATA Port 1		
Software Preserve	Unknown	
Port 1	[Enabled]	
Hot Plug	[Disabled]	
Configured as eSATA	Hot Plug supported	
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Version 2.22.1289 Copyright (C) 2024 AMI		

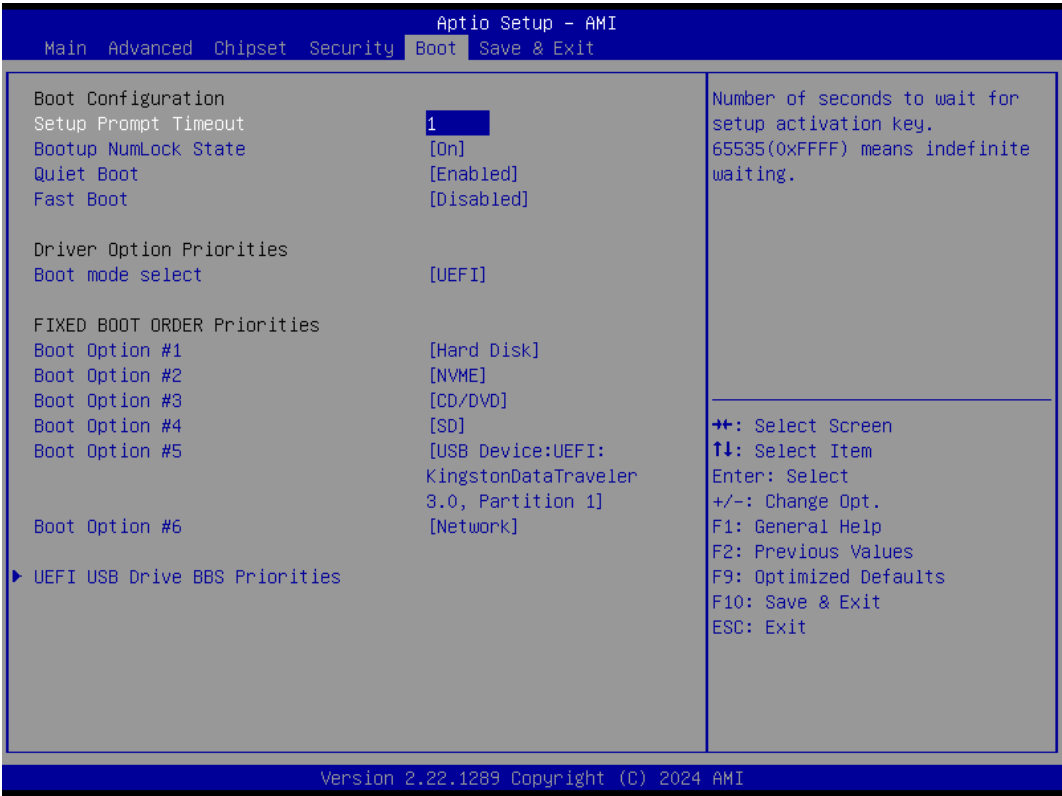
Aptio Setup - AMI		
Chipset		
USB Configuration		Enable/Disable xHCI (USB OTG Device).
xHCI Support	[Disabled]	
USB2 PHY Sus Well Power Gating	[Enabled]	
USB PDO Programming	[Enabled]	
USB Overcurrent	[Disabled]	
USB Overcurrent Lock	[Enabled]	
USB Audio Offload	[Enabled]	
Enable HSII on xHCI	[Enabled]	
USB Port Disable Override	[Disabled]	
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Version 2.22.1289 Copyright (C) 2024 AMI		

Aptio Setup - AMI		
Chipset		
HD Audio Subsystem Configuration Settings		Control Detection of the HD-Audio device. Disabled = HDA will be unconditionally disabled Enabled = HDA will be unconditionally enabled.
HD Audio	[Enabled]	
Audio DSP	[Disabled]	
HDA Link	[Enabled]	
DMIC #0	[Disabled]	
DMIC #1	[Disabled]	
SSP #0	[Disabled]	
SSP #1	[Disabled]	
SSP #2	[Disabled]	
SSP #3	[Disabled]	
SSP #4	[Disabled]	
SSP #5	[Disabled]	
SNDW #0	[Disabled]	
SNDW #1	[Disabled]	
SNDW #2	[Disabled]	
SNDW #3	[Disabled]	
▶ HD Audio Advanced Configuration		
HDA Codec ALC245 Configuration	[No Dmic to codec]	
		++: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
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3.2.21. Security Settings



3.2.22. Boot Settings



- Setup Prompt Timeout

This option sets the duration the POST screen is displayed at startup.

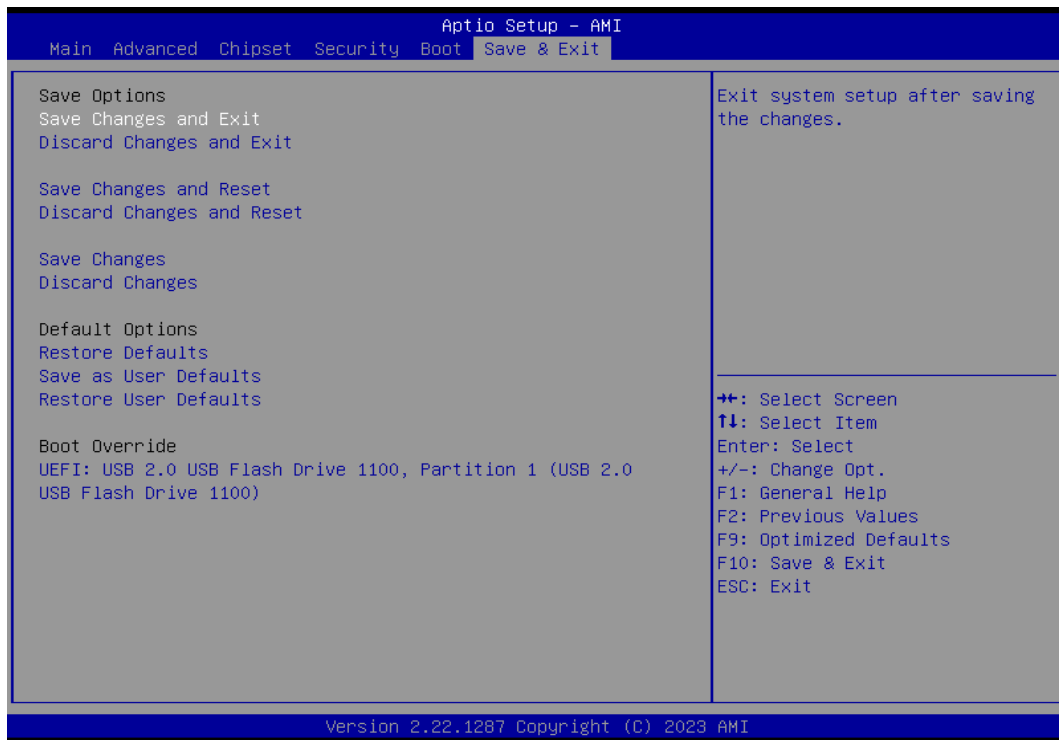
- **Bootup Numlock State**

This sets the status of NumLock after system startup. When set to On, NumLock is enabled, and the numeric keypad is active. When set to Off, NumLock is disabled, and the directional keys on the numeric keypad are active.

- **Fast boot**

This option enables fast boot, with selectable options: Disabled or Enabled.

3.2.23. Save&Exit



- **Save Changes and Exit**

Save changes and exit the BIOS program

- **Discard Changes and Exit**

Exit the BIOS program without saving changes

- **Save Changes and Reset**

Save changes and reboot the motherboard

- **Discard Changes and Reset**

Reboot the BIOS program without saving changes

- **Save Changes**

Save changes

- **Discard Changes**

Do not save changes

- **Restore Defaults**

Restore default settings

- **Save as User Defaults**

Save as user default settings

- **Restore User Defaults**

Restore user default settings

Chapter 4: Troubleshooting and Solutions

4.1 Power On but No Boot

Solutions:

- A. Ensure the power adapter is connected properly.
- B. Verify that the power supply specifications meet the motherboard's requirements.
- C. Clean the memory modules and reseat them, or try different ones.
- D. Clear the CMOS as per the motherboard manual.

4.2 No VGA Display After Startup

Solutions:

- A. Check if the monitor is powered on.
- B. Ensure the monitor cables are functioning properly.
- C. Verify BIOS settings for LVDS/EDP as primary display.
- D. Check if the display modules have the necessary drivers installed.

4.3 BIOS Setup Unable to Save

Solutions:

- A. Measure the CMOS battery voltage; if it's below 2.8V, replace the battery and reconfigure settings.
- B. Reflash the BIOS with the same version.

4.4 Unable to Enter System or Detect Hard Drive

Solutions:

- A. Confirm that the hard drive power and data cables are connected properly.
- B. Check for any damage to the hard drive.
- C. Ensure the operating system is properly installed on the hard drive.
- D. Verify that the hard drive is seated correctly.
- E. Check if the motherboard supports the hard drive mode.

4.5 Blue Screen or Freeze During System Boot

Solutions:

- A. Check for loose memory modules or external cards.
- B. Remove newly installed hardware and uninstall recent drivers or software.
- C. Try different memory modules.

4.6 Stuck on BIOS Screen During Boot

Solutions:

- A. Try different memory modules.
- B. Remove all peripherals if they are being recognized as boot devices, and test with another monitor.

4.7 System Automatically Restarts

Solutions:

- A. Ensure the CPU cooling fan is functioning properly.
- B. Check for loose memory modules or external cards.
- C. Verify that the power supply can handle the power requirements; consider trying a different power supply.

4.8 Unable to Detect USB Device.

Solutions:

- A. Check if the USB device requires separate power.
- B. Ensure USB ports are not experiencing connection issues.
- C. Verify that the USB controller is enabled in BIOS Setup.

Note: If you encounter other issues, please contact us. Feedback will be added to the troubleshooting section, and we welcome valuable input from all users!