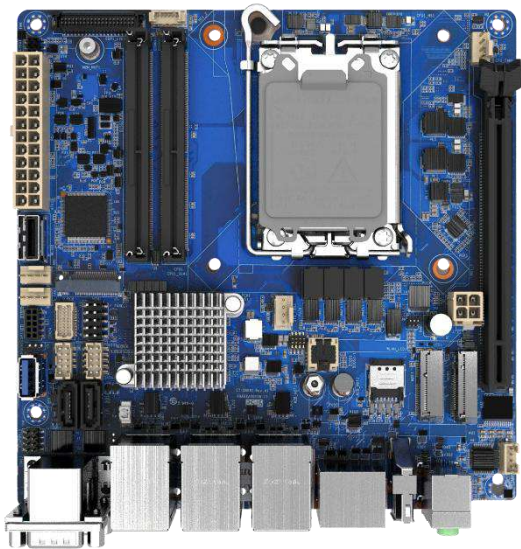


USER'S MANUAL



CT-XAR01 Series
Mini-ITX Industrial
Motherboard

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Prefaces

Revision

Revision	Description	Date
1.0	Manual Released	2026/03/17

Disclaimer

All specifications and information in this User's Manual are believed to be accurate and up to date. Premio Inc. does not guarantee that the contents herein are complete, true, accurate or non-misleading. The information in this document is subject to change without notice and does not represent a commitment on the part of Premio Inc.

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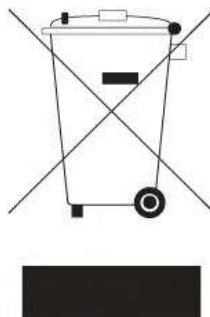
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Environmental Protection Announcement

Do not dispose this electronic device into the trash while discarding. Please recycle to minimize pollution and ensure environment protection.



Safety Precautions

Before installing and using the equipment, please read the following precautions:

- Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
- The power outlet shall be installed near the equipment and shall be easily accessible.
- Turn off the system power and disconnect the power cord from its source before making any installation. Be sure both the system and the external devices are turned OFF. Sudden surge
- of power could ruin sensitive components. Make sure the equipment is properly grounded.
- When the power is connected, never open the equipment. The equipment should be opened only by qualified service personnel.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- Disconnect this equipment from the power before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- Avoid the dusty, humidity and temperature extremes.
- Do not place heavy objects on the equipment.
- If the equipment is not used for long time, disconnect it from the power to avoid being damaged by transient over-voltage.
- The storage temperature shall be above -20°C and below 80°C .
- The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.
- If one of the following situation arises, get the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment does not work well or it cannot work according the user's manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.

Technical Support and Assistance

1. Visit the Premio Inc website at www.premioinc.com where you can find the latest information about the product.
2. Contact your distributor, our technical support team or sales representative for technical support if you need additional assistance. Please have following information ready before you call:
 - Model name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Conventions Used in this Manual

**WARNING**

This indication alerts operators to an operation that, if not strictly observed, may result in severe injury.

**CAUTION**

This indication alerts operators to an operation that, if not strictly observed, may result in safety hazards to personnel or damage to equipment.

**NOTE**

This indication provides additional information to complete a task easily.

Package Contents

Before installation, please ensure all the items listed in the following table are included in the package.

Item	Description	Qty
1	CT-XAR01 Mini-ITX Industrial Motherboard	1

Ordering Information

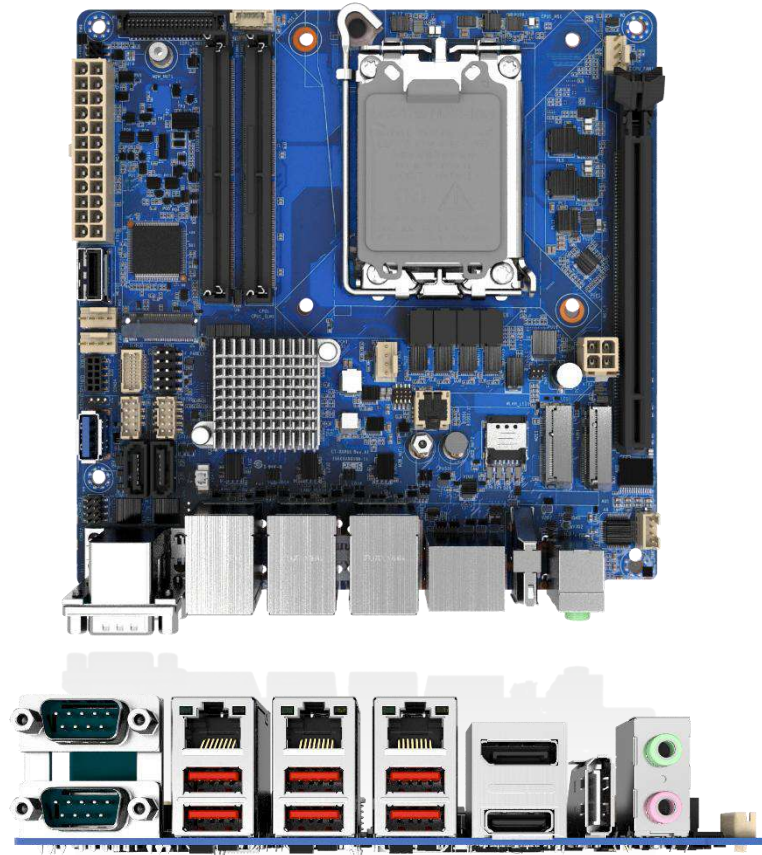
Model No.	Product Description
CT-XAR01	Mini ITX, FCLGA1851 Socket (I226-V, LM), 6x USB, 2xDP, HDMI w/ 1x PCIe x16

Chapter 1

Product Introductions

1.1 Overview

Mini ITX is a popular motherboard size for its flexibility in various embedded and industrial deployments due to its robust performance and compact size. The Mini-ITX form factor is known for its lower power consumption design and measures in at roughly 6.7" x 6.7" in size.



Key Features

- Support Intel® Core Ultra 200S Series Processors
- Intel W880 chipset support ECC-Memory
- 2x 262-pin DDR5 5600MT/s SO-DIMM. Max. up to 96GB
- 2x SATA-3.0
- 3x 2.5GbE
- 4x independent display supported 2x DP, HDMI, LVDS/eDP
- 1x PCIe x16 (Gen 5)
- 1x M.2 M Key, 1x M.2 B Key, 1x M.2 E Key
- 6x USB 3.2 Gen 2 Type A
- TPM 2.0
- 1x MCIO Gen4 x4

1.2 Hardware Specification

System

Processor

Intel® Arrow Lake-S Core™ Ultra Processors (Series 2, FCLGA1851)

- Intel® Core™ Ultra 5 Processor 225T, 35W
- Intel® Core™ Ultra 5 Processor 225, 65W
- Intel® Core™ Ultra 7 Processor 265T, 35W
- Intel® Core™ Ultra 7 Processor 265, 65W
- Intel® Core™ Ultra 9 Processor 285T, 35W
- Intel® Core™ Ultra 9 Processor 285, 65W

System Chipset	Intel W880
LAN Chipset	<ul style="list-style-type: none"> • GbE1: Intel® I226-LM 2.5GbE LAN iAMT • GbE2: Intel® I226-V 2.5GbE LAN • GbE3: Intel® I226-V 2.5GbE LAN
Audio Codec	Realtek® ALC888 Audio Codec
System Memory	2x 262-pin DDR5 5600MT/s ECC & non-ECC SODIMM. Max Up to 96GB
BIOS	AMI UEFI
Watchdog	256-level Watchdog Timer
TPM	TPM 2.0

Display

Display Port	2x DP up to 4096 x 2160@60Hz
eDP	1x eDP up to 3840 x 2160@60Hz
HDMI	1x HDMI up to 4096 x 2160@30Hz
LVDS	1x LVDS up to 1920 x 1200@60Hz
Multiple Display	Quad Independent Displays

Storage

M.2	1x M key (PCIe x4 NVMe, SATA-3.0), 2280
SSD/HDD	2x SATA-3.0 (RAID 0/1, AHCI Mode Supported)

Expansion

PCIe	1x PCIe x16 (Gen 5) (lockable connector) (BIOS support 2 x8 or 1 x16 configure)
Expansion Modules	
1x E key (PCIe x1 & USB 2.0), 2230	
1x B key (PCIe x2 NVMe, USB3.0), 2242/3042/3052 with SIM Holder	

I/O

Audio	1x Mic-in, 1x Line-out
COM	2 x COM ports COM1/2 RS-232/422/485, No Signal/5V/12V, Auto-flow Control (real IO)
LAN	3x 2.5GbE RJ45
USB	6x USB 3.2 Gen 2 TYPE A

Internal I/O

COM	4 x COM ports COM3/4 RS-232 Pin header COM5/6 (CN1) RS-232 Pin header (TX/RX only)
GPIO	GPIO 8 bit non-isolation
USB	1x USB 3.0 vertical Type A 2x USB 2.0-Ports Pin header
MCIO	1x PCIe Gen 4 x4-lane

Operating System

Windows	Windows 10 IoT Enterprise LTSC (64-bit) Windows 11 IoT Enterprise LTSC (64-bit)
Linux	Ubuntu 22.04 / 24.04 LTS , Linux 5.x / 6.x

Power

Power Mode	ATX24P
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Environment

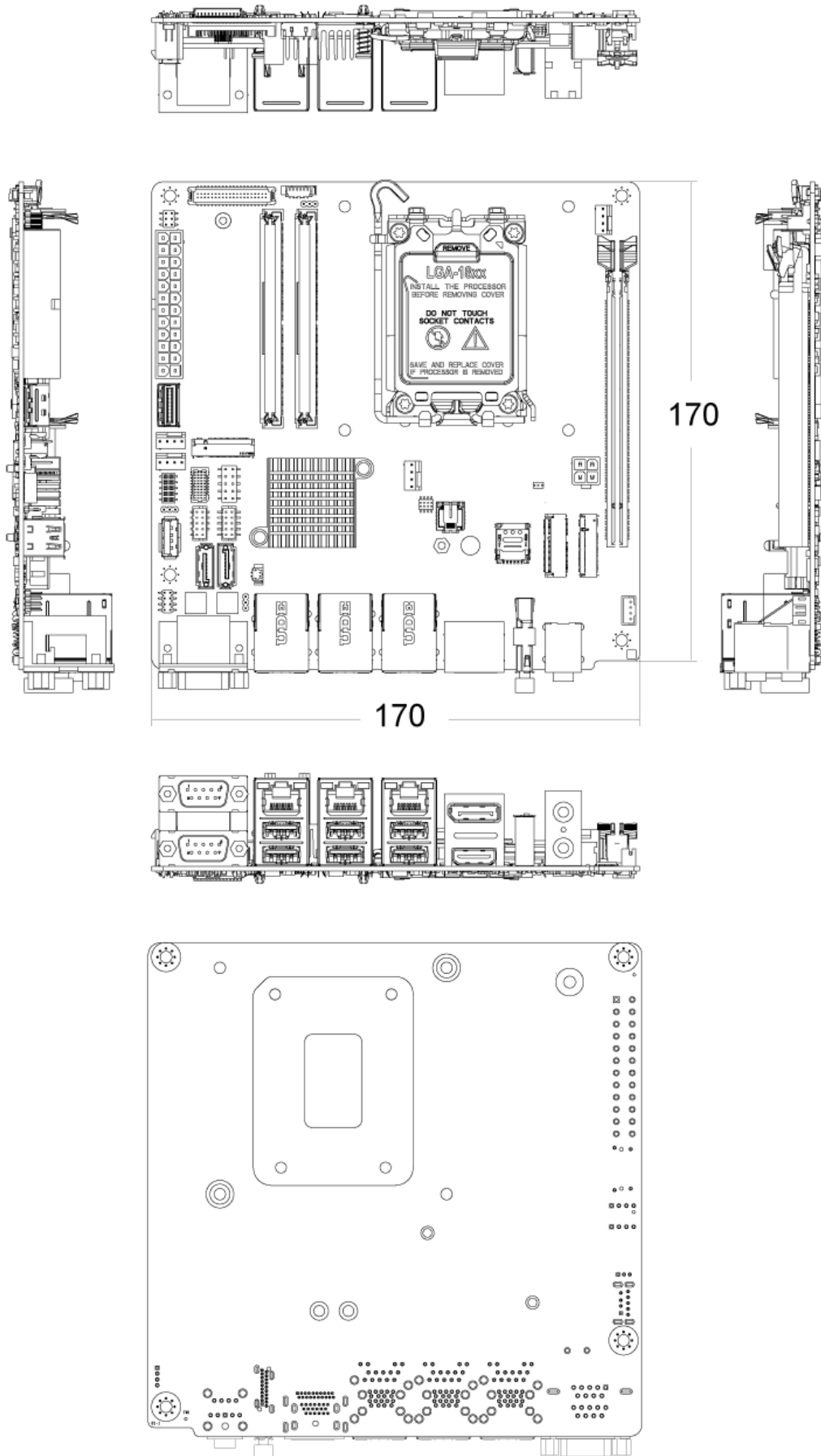
Form Factor	Mini-ITX
Operating Temperature	0°C to 60°C
Storage Temperature	-20°C to 80°C
Relative Humidity	10% ~ 90% relative humidity, non-condensing
Certification	CE, FCC Class A , UKCA

Physical

Dimensions	170mm x 170mm
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1.3 Board Dimensions

Unit: mm

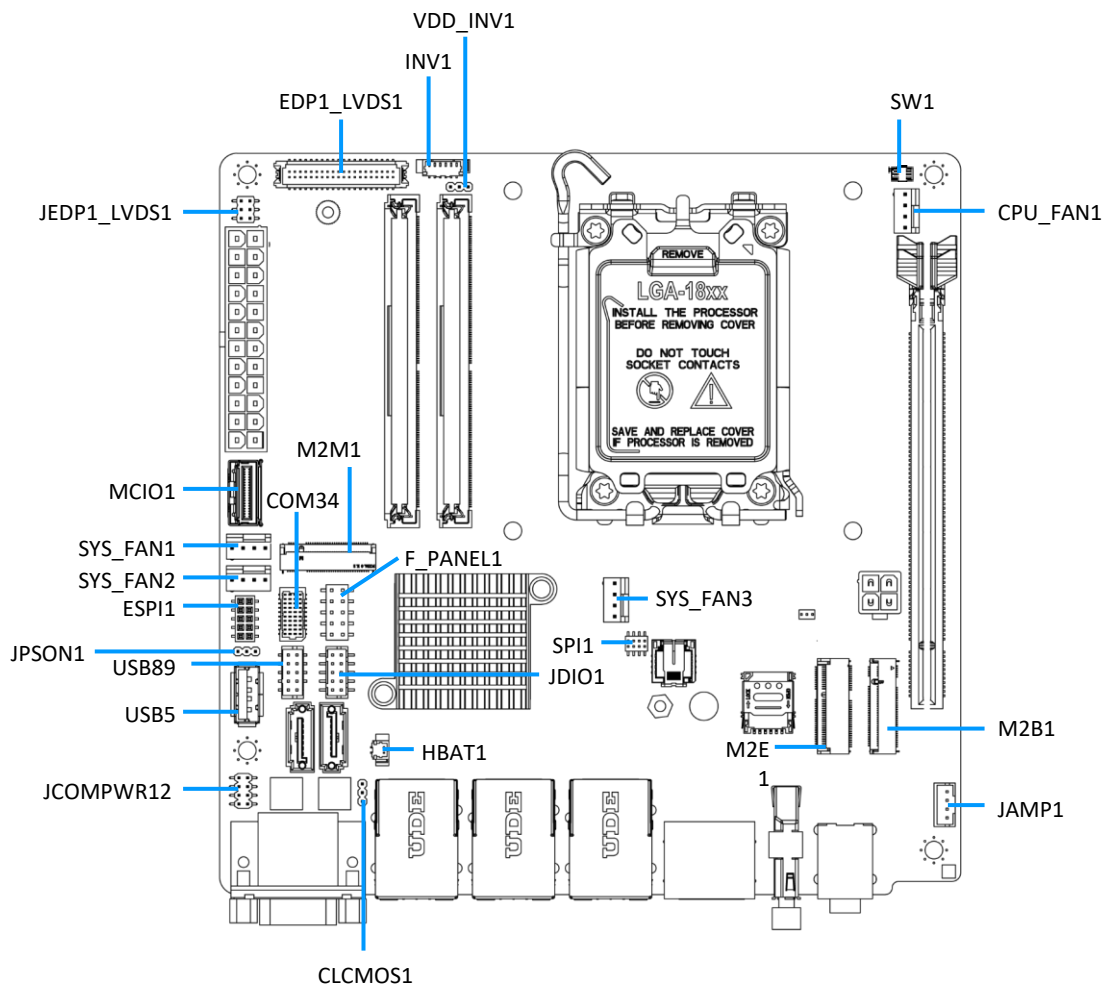


Chapter 2

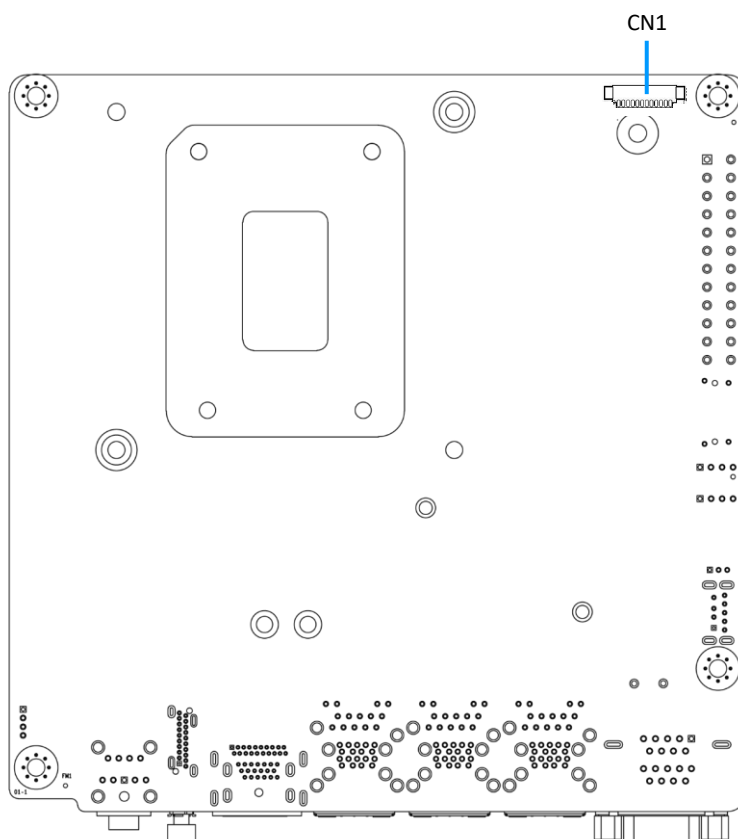
Jumper and Connectors

2.1 Switch & Connector Locations

2.1.1 Top View



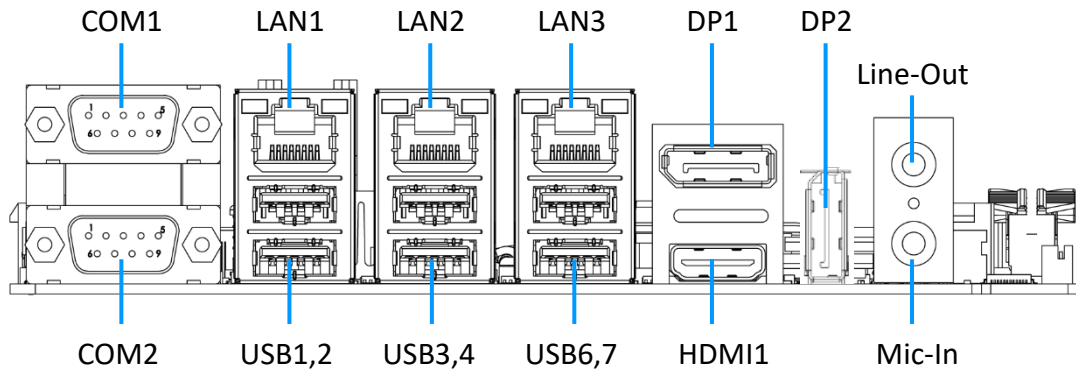
2.1.2 Bottom View



Internal Connector

Connector Location	Definition
JEDP1_LVDS1	eDP / LVDS panel voltage select header
EDP1_LVDS1	LVDS data connector
INV1	LVDS inverter power connector
VDD_INV1	eDP / LVDS backlight inverter voltage select header
CPU_FAN1	CPU fan header
SYS_FAN3	System fan header
SPI1	SPI header
JAMP1	Audio amp. output header
CLCMOS1	Clear CMOS header
HBAT1	RTC battery connector
JCOMPWR12	COM1, COM2 pin9 function select header
JDIO1	8 bits GPIO connector
USB89	Front panel USB connector
JPERSON1	AT/ATX mode select header
F_PANEL1	Front panel header
COM34	Serial port header
ESPI1	Debug header
SYS_FAN2	System fan header
SYS_FAN1	System fan header
MCIO1	MCIO connector
CN1	TTL level (Tx/Rx) uart port connector
SW1	PCIe x16 lane select
USB5	USB5
M2M1	M.2 M key 2280
M2B1	M.2 B key 2242/3042/3052 with SIM Holder
M2E1	M.2 E key 2230

2.1.3 Back Panel

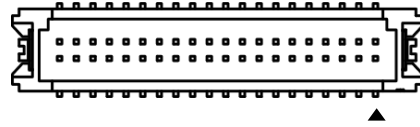
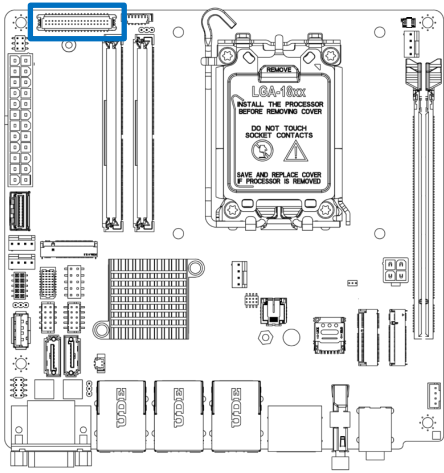


External IO Connector

Connector Location	Definition
COM1	RS232/422/485
COM2	RS232/422/485
LAN1	i226-LM
USB1,2	USB 3.2 Gen2
LAN2	i226-V
USB3,4	USB 3.2 Gen2
LAN3	i226-V
USB6,7	USB3.2 Gen2
DP1	Display Port 1.4a
HDMI1	HDMI 1.4b
DP2	Display Port 1.4a
Line-Out	ALC888S
Mic-In	ALC888S

2.2 I/O Interface Descriptions

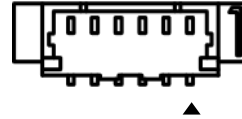
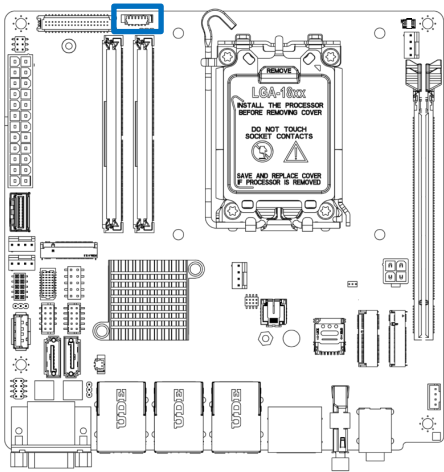
2.2.1 EDP1_LVDS1, Wafer Box 2x20P, 1.25mm



LVDS Data Connector – 40-pin

Pin	Signal	Pin	Signal
2		1	
4		3	
6	eDP HPD	5	GND
8	GND	7	
10		9	
12		11	
14		13	
16	GND	15	GND
18	LVDS_E0-	17	LVDS_O0-
20	LVDS_E0+	19	LVDS_O0+
22	LVDS_E1-	21	LVDS_O1-
24	LVDS_E1+	23	LVDS_O1+
26	LVDS_E2-	25	LVDS_O2-
28	LVDS_E2+	27	LVDS_O2+
30	GND	29	GND
32	LVDS_EC-	31	LVDS_OC-
34	LVDS_EC+	33	LVDS_OC+
36	GND	35	GND
38	LVDS_E3-	37	LVDS_O3-
40	LVDS_E3+	39	LVDS_O3+

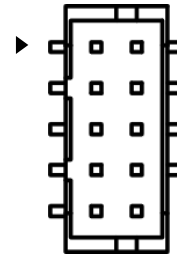
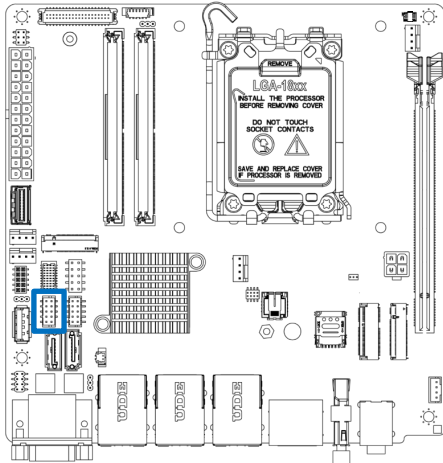
2.2.2 INV1, Wafer 1x6P, 1.25mm



LVDS Inverter Power Connector

Pin	Signal Name	Description
1	+V5_V12_INV	+5V or +12V
2	+V5_V12_INV	+5V or +12V
3	INV1_ENBKL	Backlight Enable
4	INV1_VBR	Backlight dimming
5	GND	GND
6	GND	GND

2.2.3 USB89, Wafer 2X5P, 2.0mm

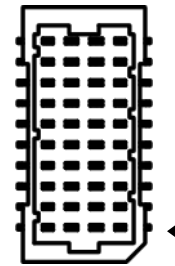
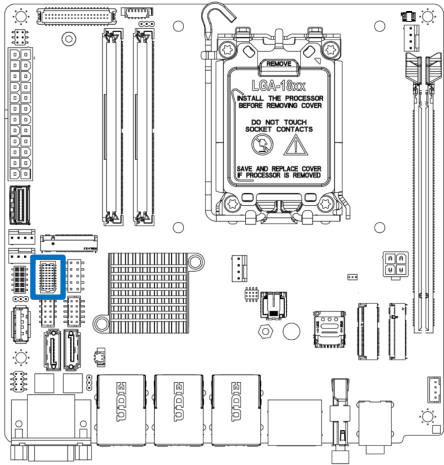


Front Panel USB Header

Pin	Signal	Pin	Signal
1	+5 VDC	2	+5 VDC
3	D -	4	D -
5	D +	6	D +
7	Ground	8	Ground
9	No Connect/ OC	10	KEY (no pin)

The +5 VDC power on the USB headers is fused

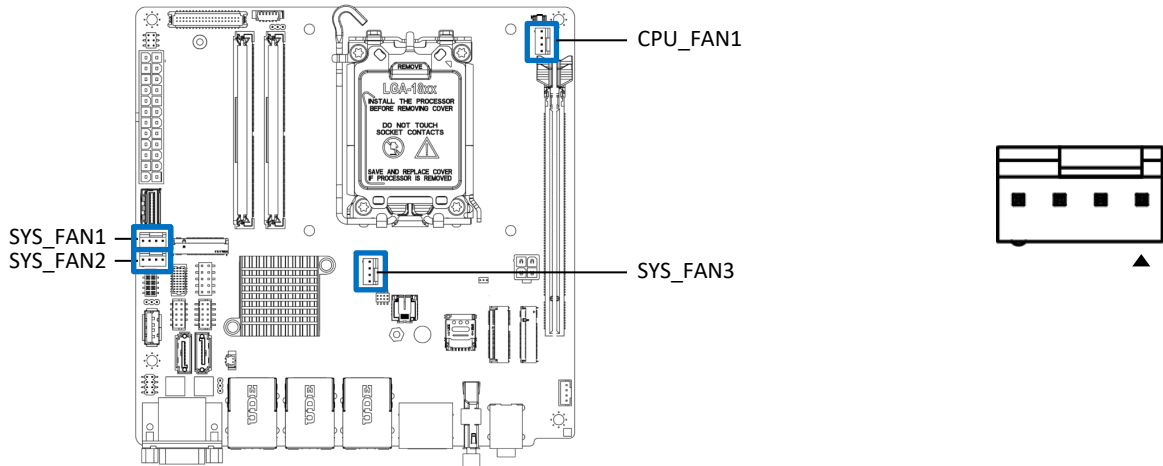
2.2.4 COM34, Wafer 2x10P, 1.0mm



Serial Port Header

Pin	Signal Name COM3	Description	Pin	Signal Name COM4	Description
1	DCD#	Data Set Ready	2	DCD#	Data Set Ready
3	RXD	Request To Send	4	RXD	Request To Send
5	TXD	Clear To Send	6	TXD	Clear To Send
7	DTR#	Ring Indicator	8	DTR#	Ring Indicator
9	GND		10	GND	
11	DSR#	Data Set Ready	12	DSR#	Data Set Ready
13	RTS#	Request To Send	14	RTS#	Request To Send
15	CTS#	Clear To Send	16	CTS#	Clear To Send
17	RI#	Ring Indicator	18	RI#	Ring Indicator
19			20		

2.2.5 CPU_FAN1, SYS_FAN1~3, Wafer 1x4P, 2.54mm

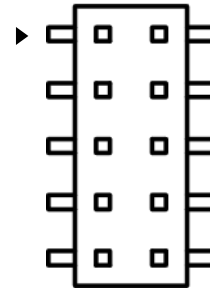
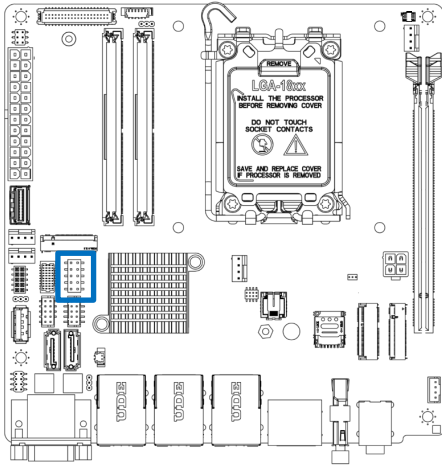


CPU / SYS FAN Header (4pin)

Pin	Signal Name	Description
1	GND	Ground
2	+12 V	FAN Power
3	Tach	FAN Tachometer
4	PWM	FAN PWM

The fan header supports +12 V at 2.5 A maximum

2.2.6 F_PANEL1, Pin Header 2x5P, 2.54mm

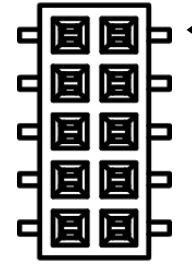
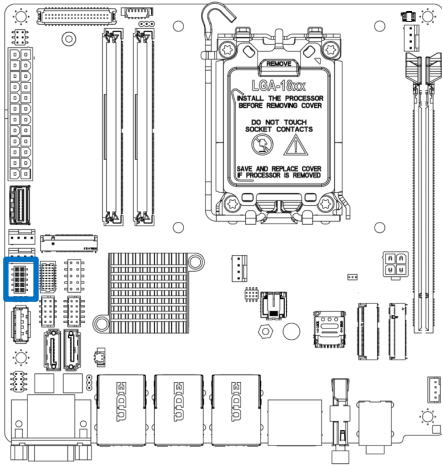


Front Panel Header

Pin	Signal	In/Out	Description
HDD Activity LED			
1	HD_PWR	Out	Hard disk LED pull-up to +5 V
3	HDA#	Out	Hard disk active LED
Reset Switch			
5	Ground		Ground
7	FP_RESET#	In	Reset switch
NC			
9	NC		

Pin	Signal	In/Out	Description
Power LED			
2	PLED_PWR	Out	Power LED pull-up to +5 V
4	SUPLED	Out	Front panel active LED
On/ Off Switch			
6	PANSWIN#	In	Power switch
8	Ground		Ground
Not connected			
10	x		

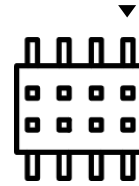
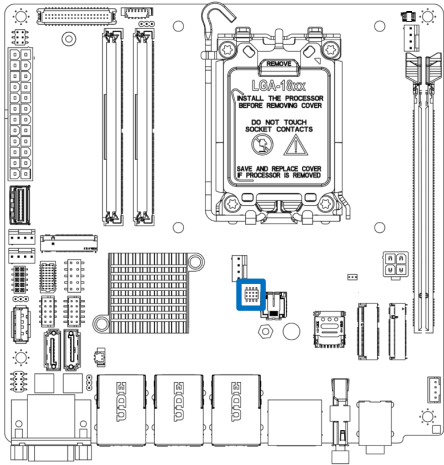
2.2.7 ESPI1, Female Header 2X5P, 2.0mm



Debug Header

Pin	Signal	Pin	Signal
2	eSPI_IO_1	1	eSPI_CLK
4	eSPI_IO_0	3	eSPI_RST#
6	+ V3.3	5	eSPI_CS#
8	GND	7	eSPI_IO_3
10	+3.3 V (STBY)	9	eSPI_IO_2

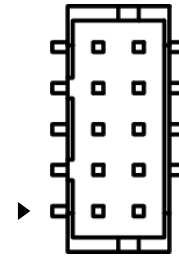
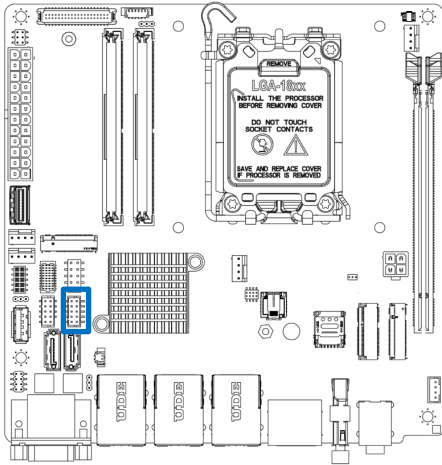
2.2.8 SPI1, Pin Header 2X4P, 1.27mm



SPI Headers

Pin	Signal	Pin	Signal
1	SPI_CS#	2	VCC3
3	SPI_MISO	4	
5	HOLD#	6	SPI_CLK
7	GND	8	SPI_MOSI

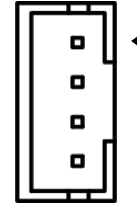
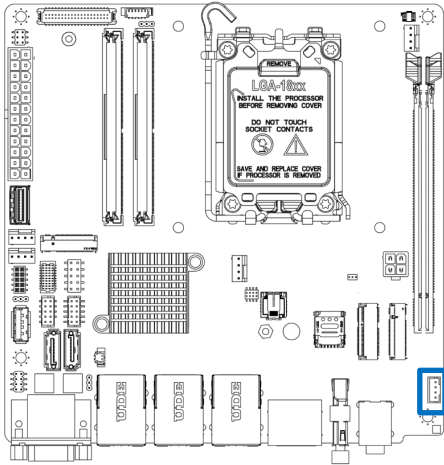
2.2.9 JDIO1, Wafer 2x5P, 2.0mm



JDIO (8 bits)

Pin	Signal	Pin	Signal
2	GND	1	+3.3V
4	GPIO4	3	GPIO0
6	GPIO5	5	GPIO1
8	GPIO6	7	GPIO2
10	GPIO7	9	GPIO3

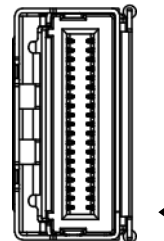
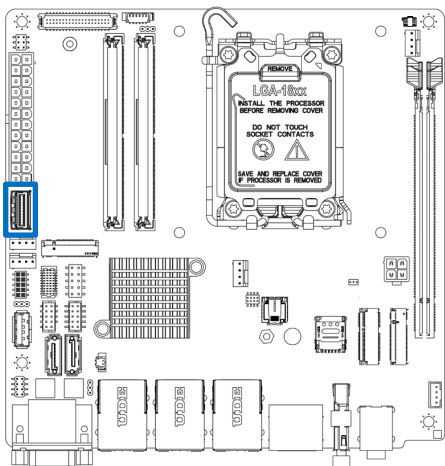
2.2.10 JAMP1, Wafer 1X4P, 2.0mm



Audio Amp. Output header

Pin	Signal	Description
1	SPK_RN	Amp. Right Channel -
2	SPK_RP	Amp. Right Channel +
3	SPK_LN	Amp. Left Channel -
4	SPK_LP	Amp. Left Channel +

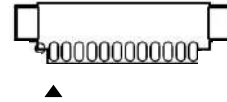
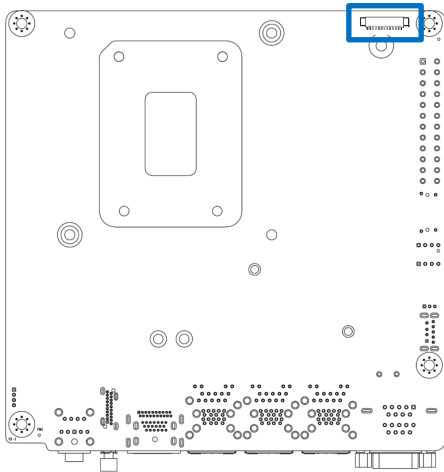
2.2.11 MCIO1, MCIO 4x38P, 0.6mm



MCIO Connector

Pin	Description	Pin	Description
A1	GND	B1	GND
A2	PCIe RX0+	B2	PCIe TX0+
A3	PCIe RX0-	B3	PCIe TX0-
A4	GND	B4	GND
A5	PCIe RX1+	B5	PCIe TX1+
A6	PCIe RX1-	B6	PCIe TX1-
A7	GND	B7	GND
A8	Side Band (3p3AUX_MGMT)	B8	Side Band (SMBUS CLK)
A9		B9	Side Band (SMBUS Data)
A10	GND	B10	GND
A11	Side Band (PCIe CLK+)	B11	Side Band (PLTRST#)
A12	Side Band (PCIe CLK-)	B12	Side Band (MCIO Present#)
A13	GND	B13	GND
A14	PCIe RX2+	B14	PCIe TX2+
A15	PCIe RX2-	B15	PCIe TX2-
A16	GND	B16	GND
A17	PCIe RX3+	B17	PCIe TX3+
A18	PCIe RX3-	B18	PCIe TX3-
A19	GND	B19	GND

2.2.12 CN1, Wafer 1X12P, 1.25mm



Customer define connector for 2 ports of TTL level uart Tx/Rx

Pin	Signal	Description
1	UART1_TXD	COM1 TX (TTL level)
2	UART1_RXD	COM1 RX (TTL level)
3	GND	GND
4	UART2_TXD	COM2 TX (TTL level)
5	UART2_RXD	COM2 RX (TTL level)
6	GND	GND
7	+V5_DUAL	+5V
8	GND	GND
9	EXT_PWR_SW#	Power switch output to system
10	EXT_RST_SW#	Reset switch output to system
11	PG_SYSTEM	System power good output
12	x	

Chapter 3

BIOS Setup

3.1 BIOS Introduction

The BIOS provides an interface to modify the configuration. When the battery is removed, all the parameters will be reset.

BIOS Setup

Power on the embedded system and by pressing immediately allows you to enter the setup screens. If the message disappears before you respond and you still wish to enter the Setup, restart the system by turning it OFF and ON or pressing the RESET button.

You may also restart the system by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

Control Keys	
<→> <←>	Select Screen
<↑> <↓>	Select Item
<Enter>	Select
<Page Up/+>	Increases the numeric value or makes changes
<Page Down/->	Decreases the numeric value or makes changes
<F1>	General Help
<F2>	Previous Value
<F3>	Load Optimized Defaults
<F4>	Save Configuration and Exit
<Tab>	Select Setup Fields
<Esc>	Exit BIOS Setup

Main Setup

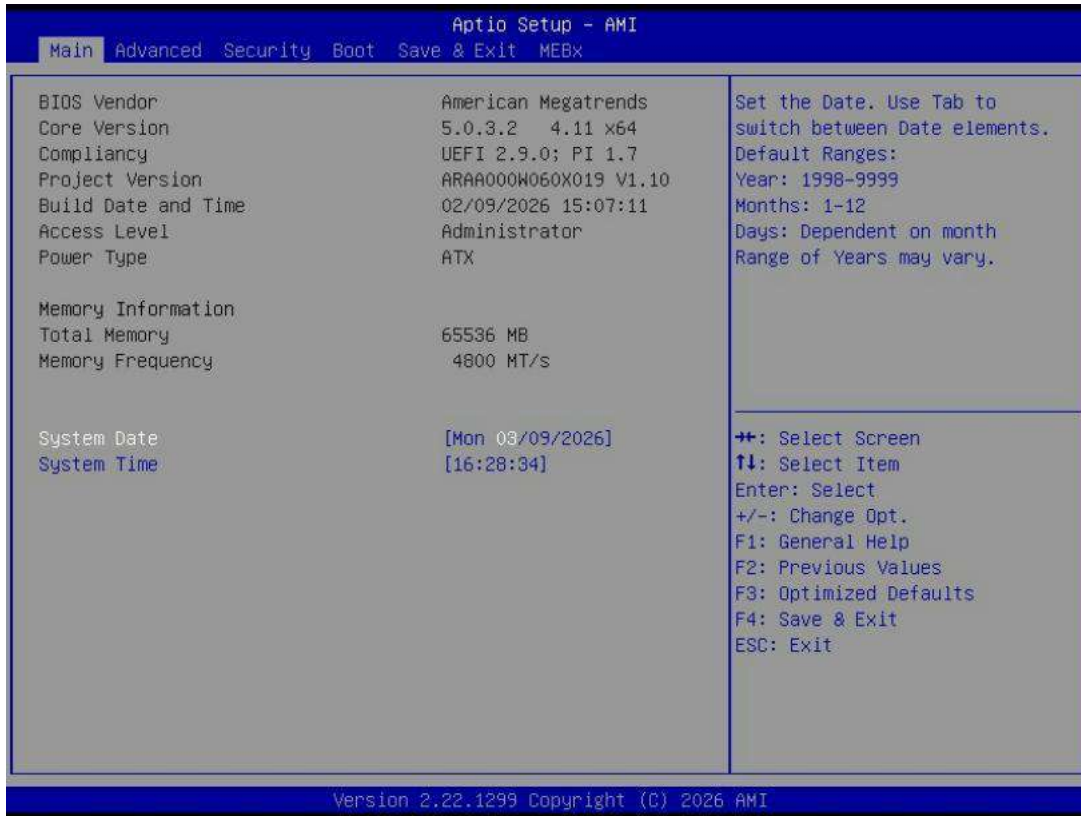
The main menu lists the setup functions you can make changes to. You can use the arrow keys (↑↓) to select the item. The on-line description of the highlighted setup function is displayed at the bottom of the screen.

General Help <F1>

The BIOS setup program provides a General Help screen. You can call up this screen from any menu by simply pressing <F1>. The Help screen lists the appropriate keys to use and the possible selections for the highlighted item. Press <Esc> to exit the Help screen.

3-2 BIOS Menu Screen

When you enter the BIOS, the following screen appears. The BIOS menu screen displays the items that allow you to make changes to the system configuration. To access the menu items, press the up/down/right/left arrow key on the keyboard until the desired item is highlighted, then press [Enter] to open the specific menu.



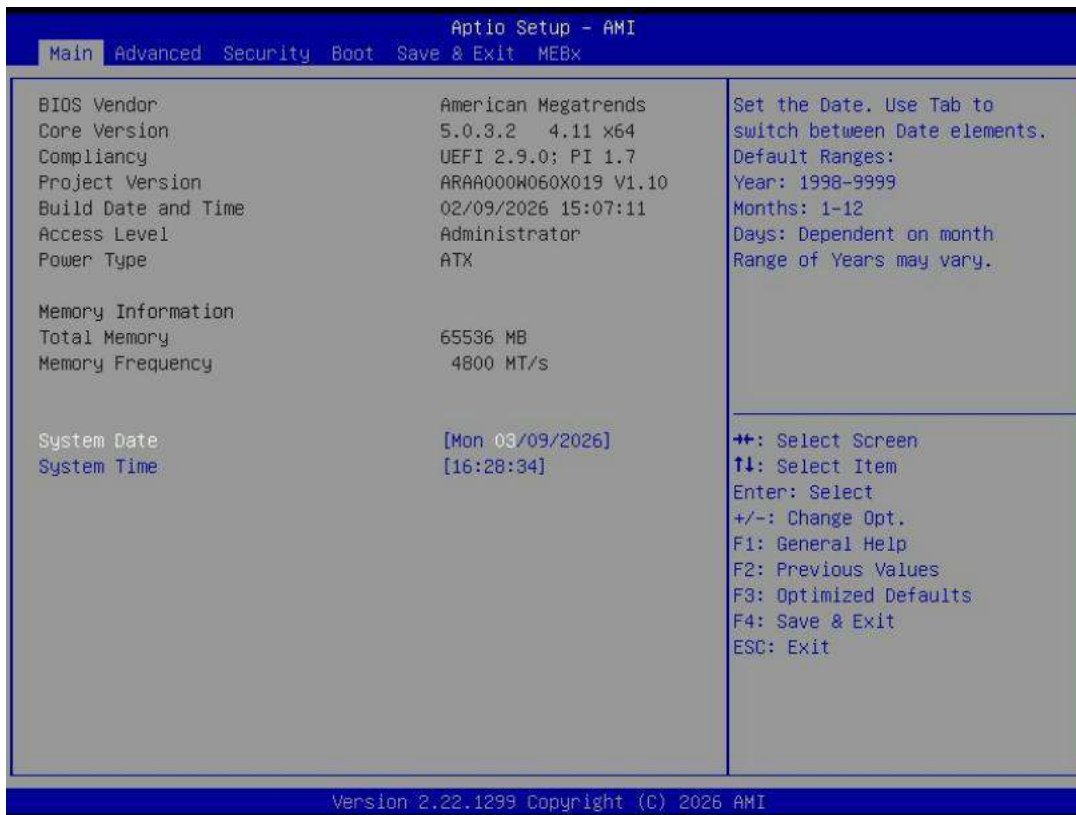
```

++: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

```

3-3 Main Setup

This menu gives you an overview of the general system specifications. The BIOS automatically detects the items in this menu. Use this menu for basic system configurations, such as time, date etc.



BIOS Information

Displays the auto-detected BIOS information.

- **System Date**

The date format is <Date>,<Month>,<Day>,<Year>.

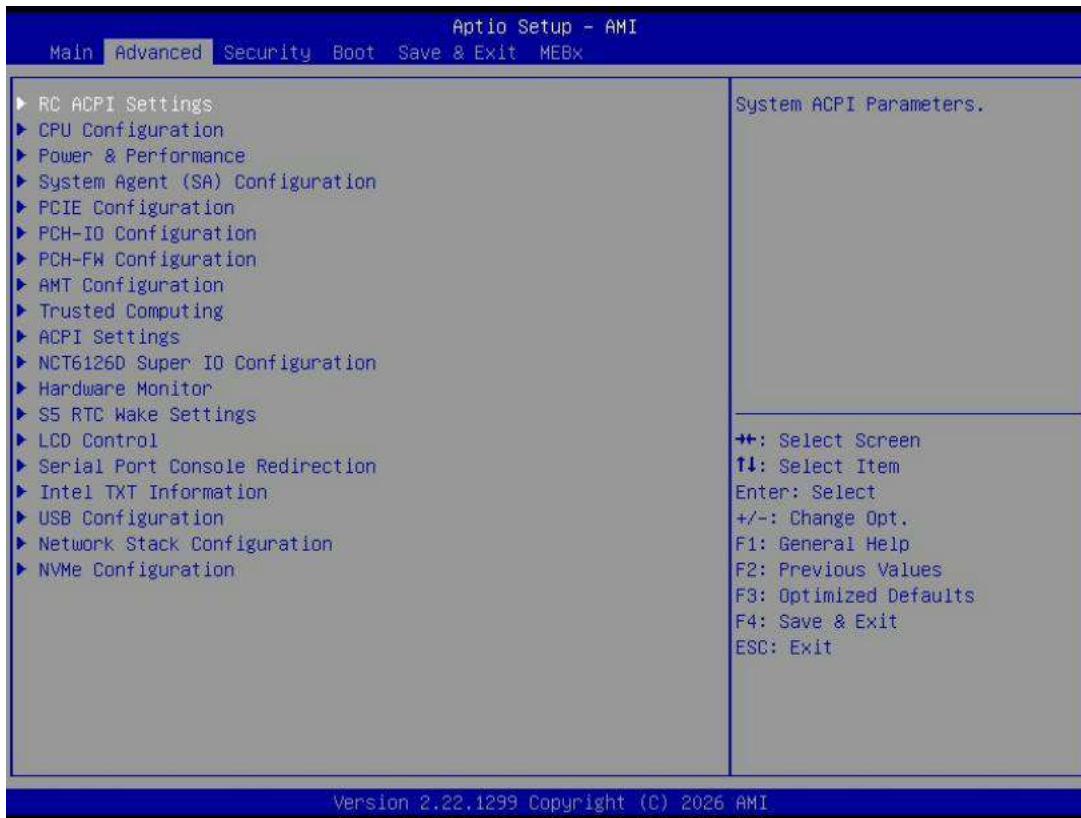
- **System Time**

The time format is <Hour>,<Minute>,<Second>.

3-4 Advanced BIOS Setup

Select the Advanced tab from the setup screen to enter the Advanced BIOS Setup screen.

You can select any of the items in the left frame of the screen, such as Chipset configuration, to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. All Advanced BIOS Setup options are described in this section. The Advanced BIOS Setup screen is shown below. The sub menus are described on the following pages.



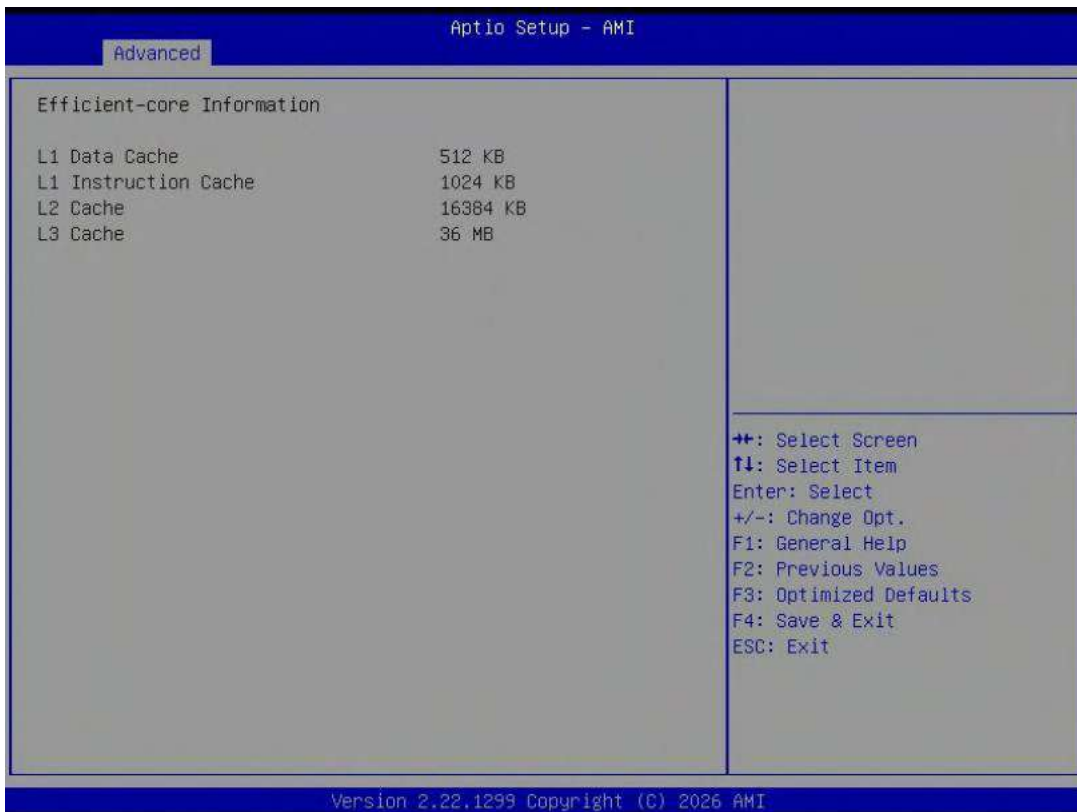
Take caution when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction.

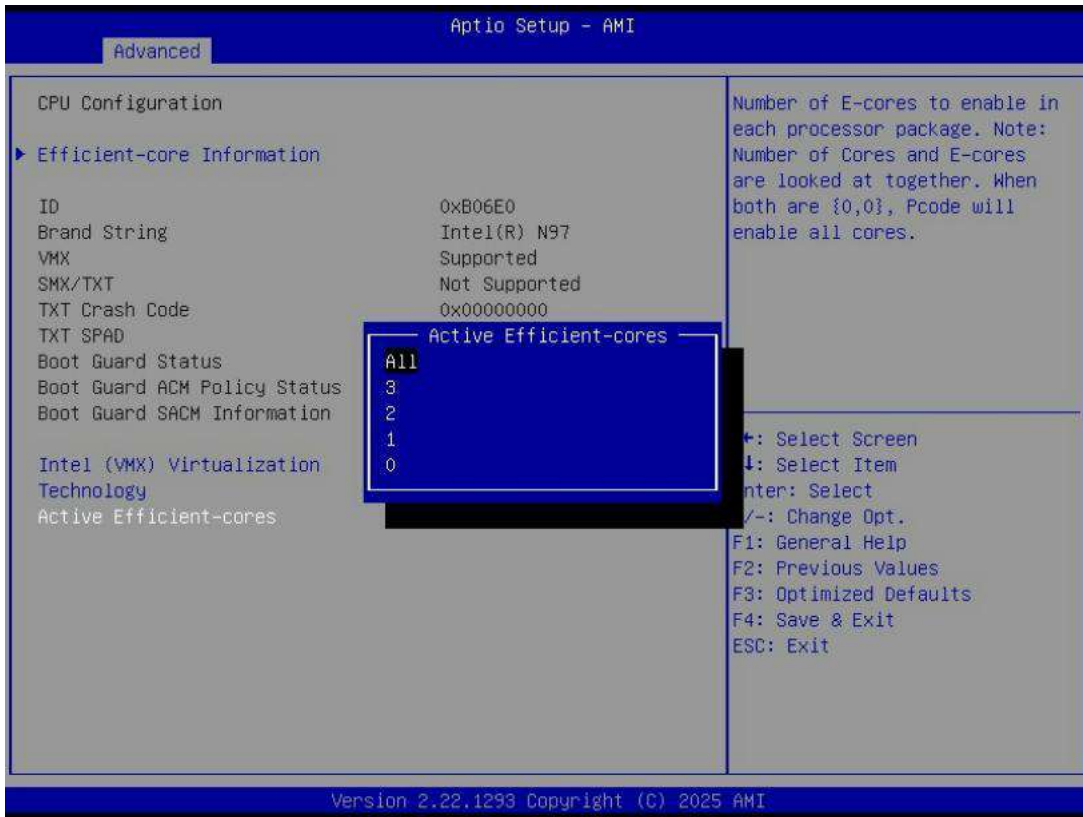
3-4-1 RC ACPI Settings



3-4-2 CPU configuration







3-4-3 Power & Performance



Aptio Setup - AMI

Advanced

<p>Current Turbo Settings</p> <p>Max Turbo Power Limit 4095.875 Min Turbo Power Limit 0.0 Package TDP Limit 65.0 Power Limit 1 65.0 Power Limit 2 182.0</p> <p>▶ Turbo Ratio Limit Options</p> <p>Energy Efficient P-state [Enabled] Package Power Limit MSR Lock [Disabled] Power Limit 1 Override [Disabled] Power Limit 2 Override [Enabled] Power Limit 2 0 Energy Efficient Turbo [Disabled] Platform Tuning for Reliability [Default]</p>	<p>View/Configure Turbo Ratio Limit Options</p> <hr/> <p>↔: Select Screen ⏴: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>
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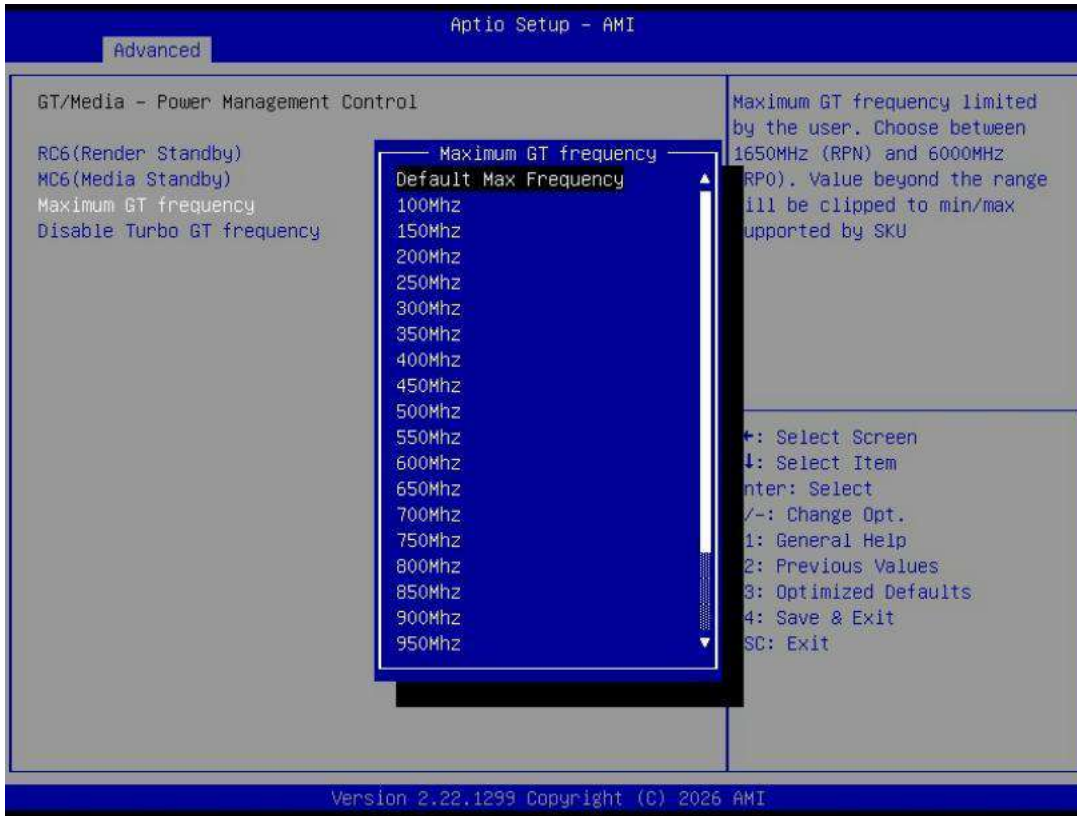
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Aptio Setup - AMI

Advanced

<p>GT/Media - Power Management Control</p> <p>RC6(Render Standby) [Enabled] MC6(Media Standby) [Enabled] Maximum GT frequency [Default Max Frequency] Disable Turbo GT frequency [Disabled]</p>	<p>Check to enable render standby support.</p> <hr/> <p>↔: Select Screen ⏴: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</p>
--	--

Version 2.22.1299 Copyright (C) 2026 AMI

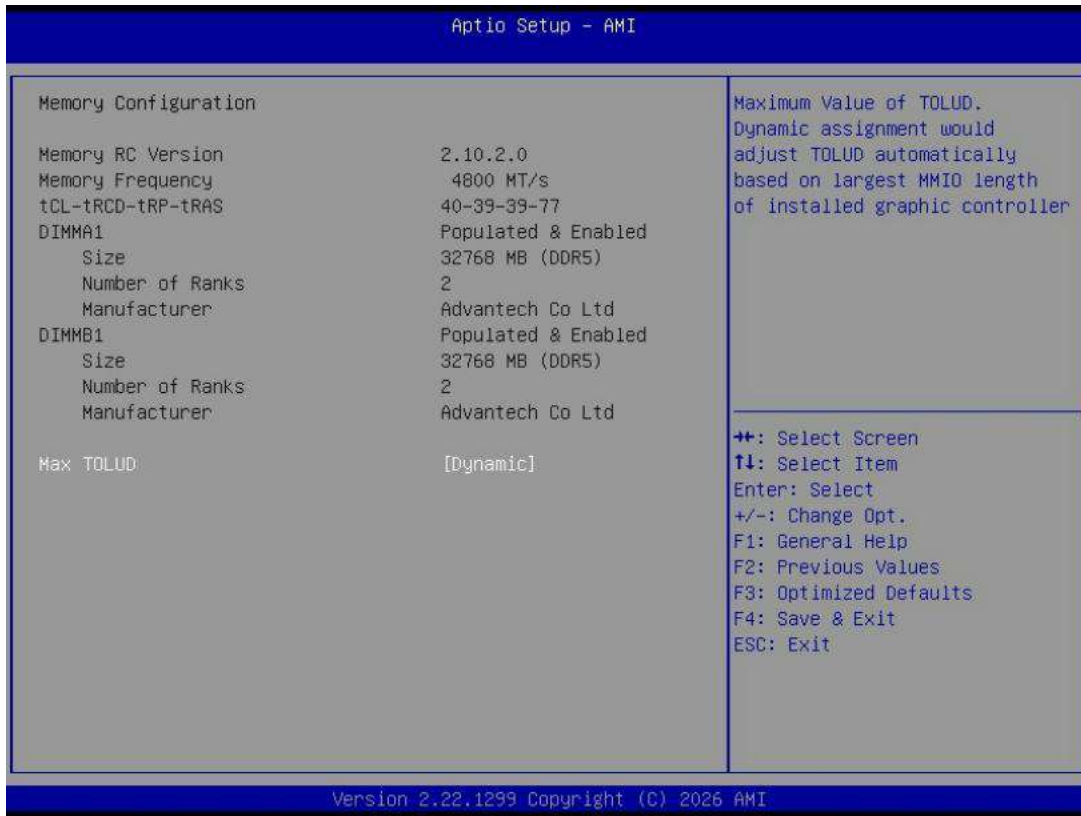


3-4-4 System Agent (SA) Configuration



3-4-4-1 Memory configuration

Display memory information



3-4-4-2 Graphic Configuration

Graphic Configuration



3-4-4-3 VMD setup menu



3-4-4-4 VT-d setup menu

VT-d Configuration

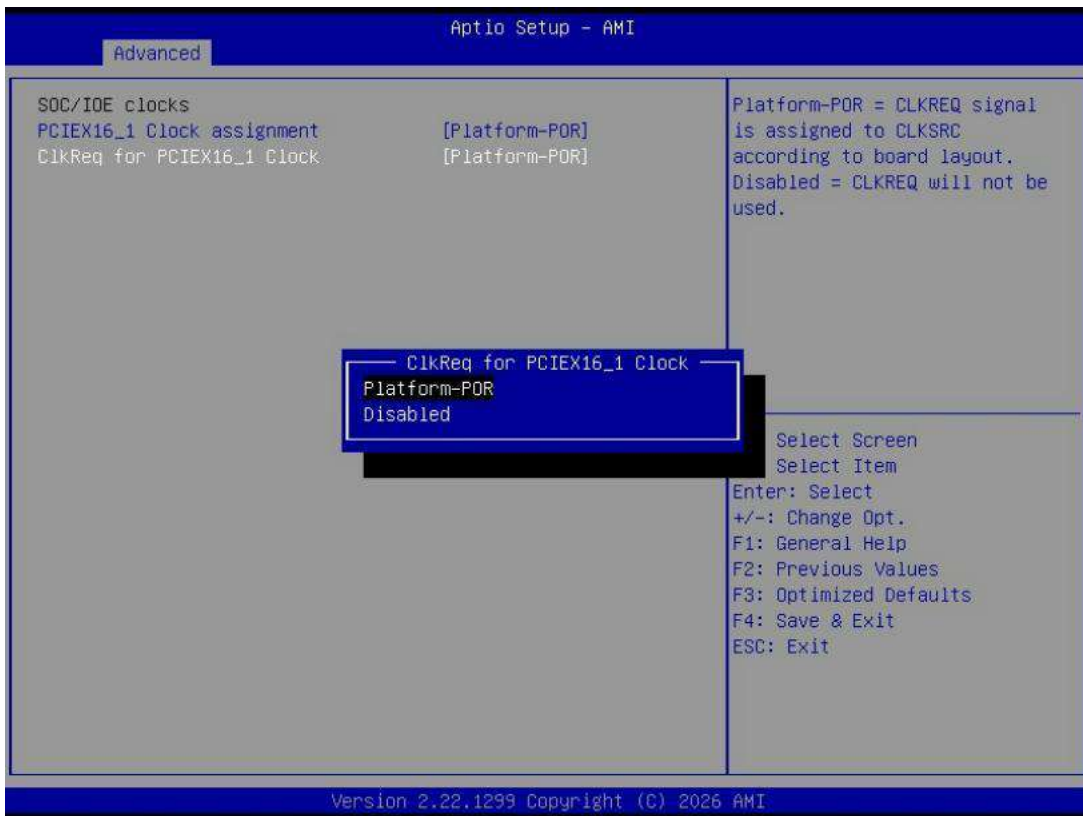


3-4-5 PCIE Configuration

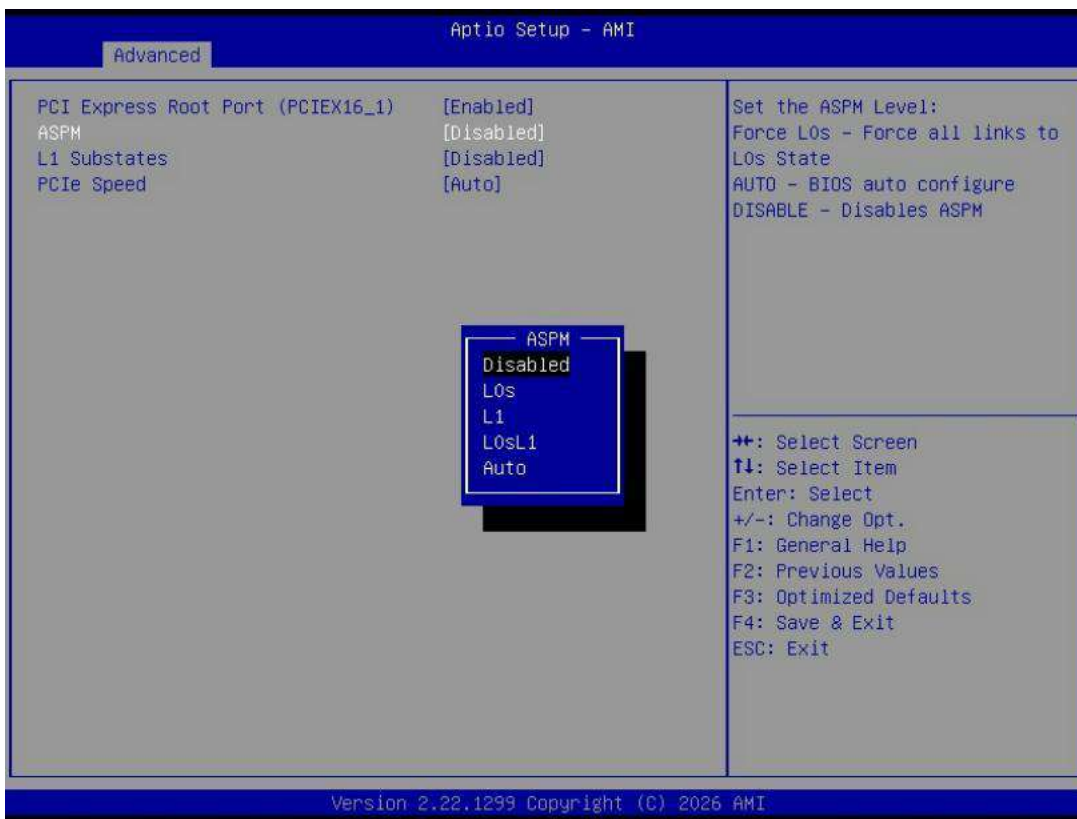
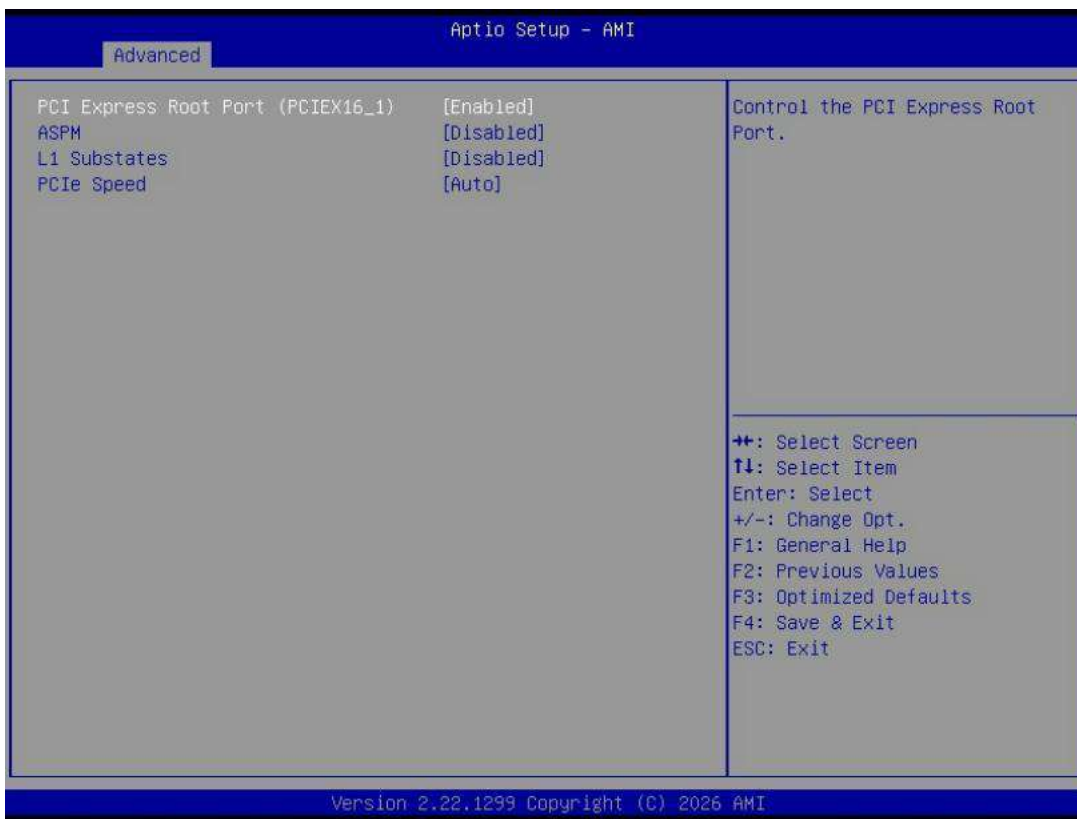


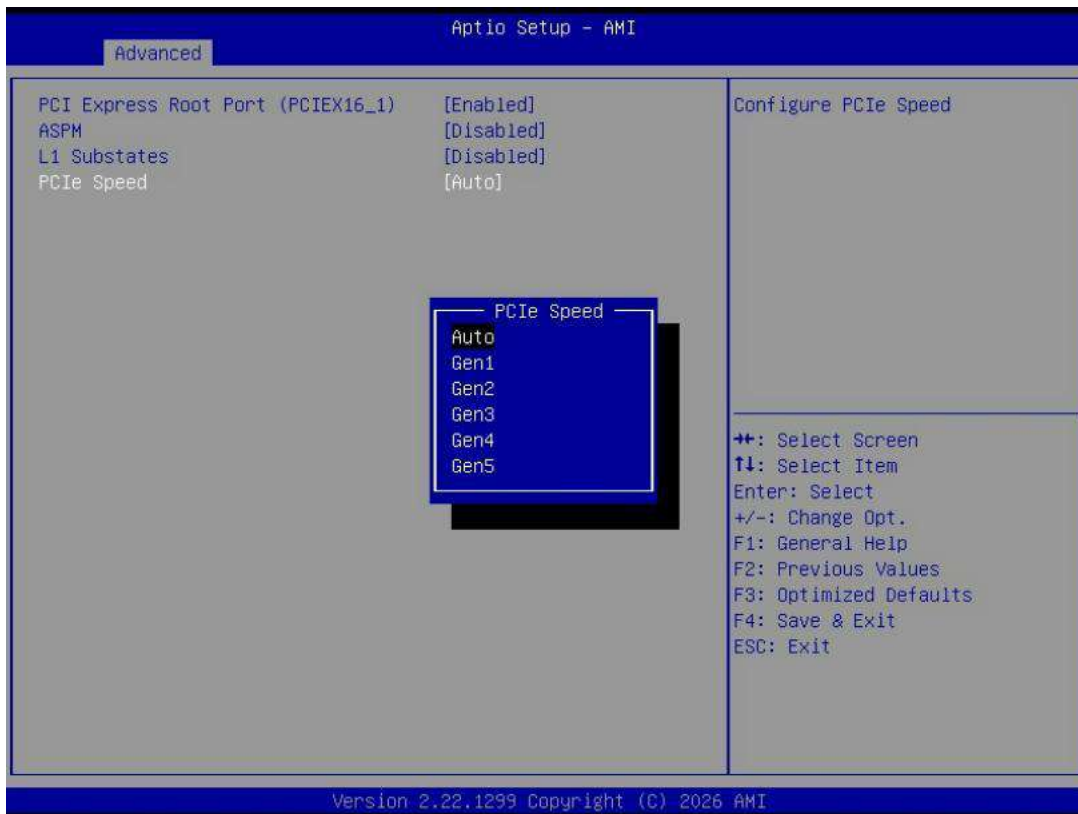
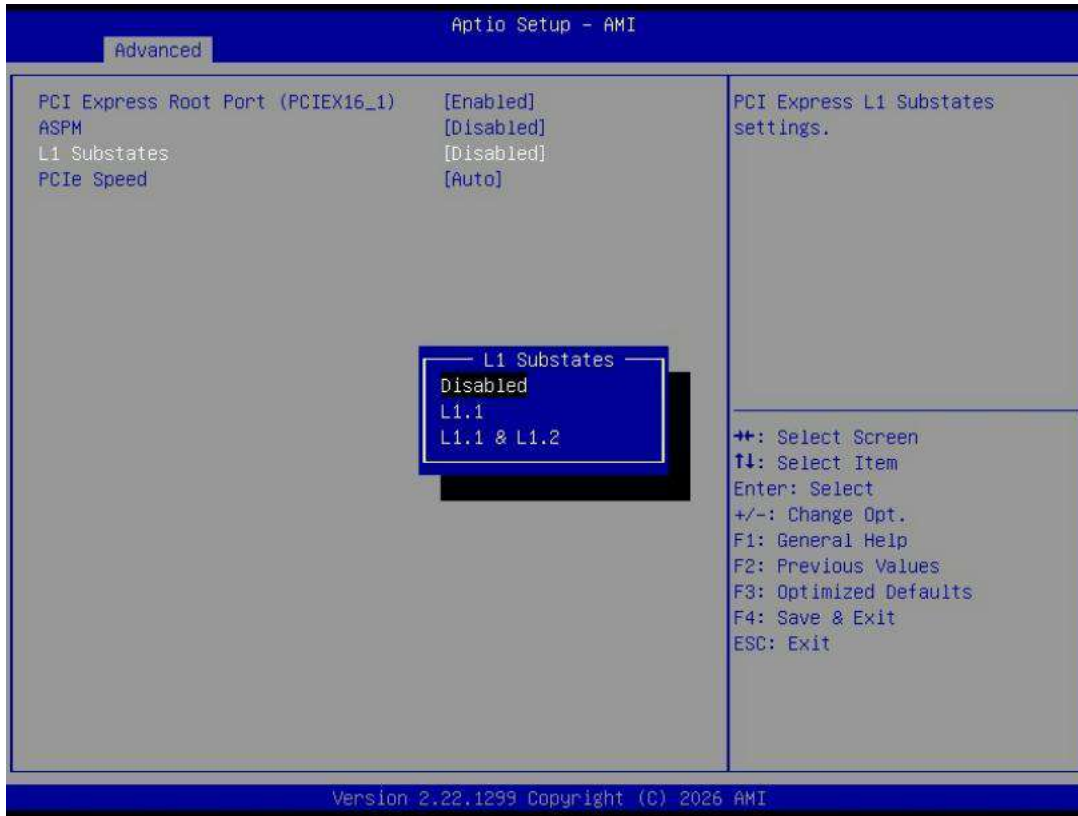
3-4-5-1 PCIE Clocks Configuration



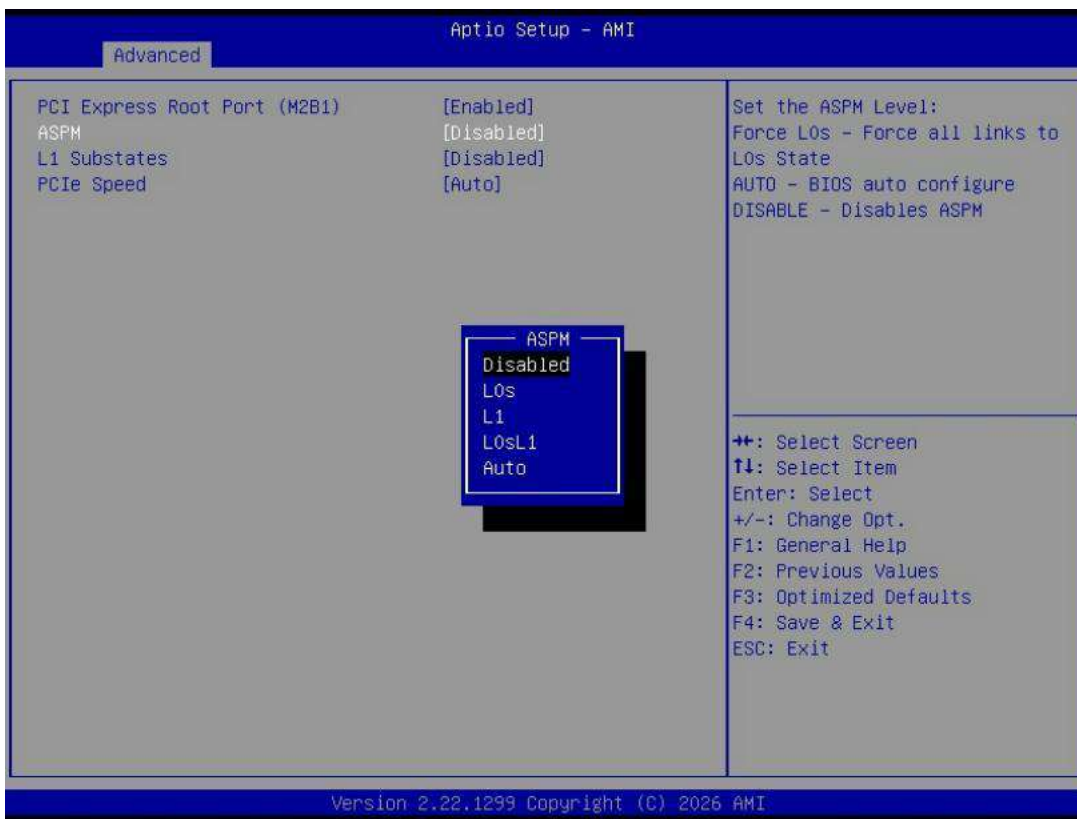


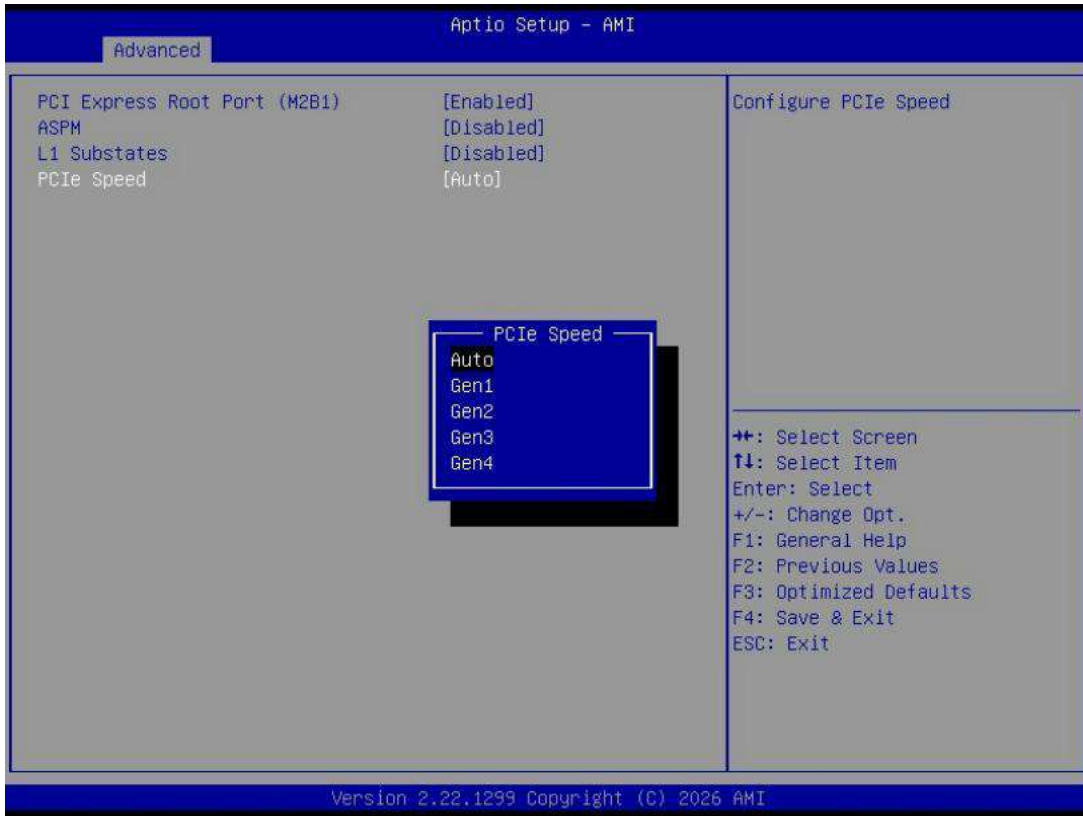
3-4-5-2 PCI Express Root Port (PCIEX16_1)



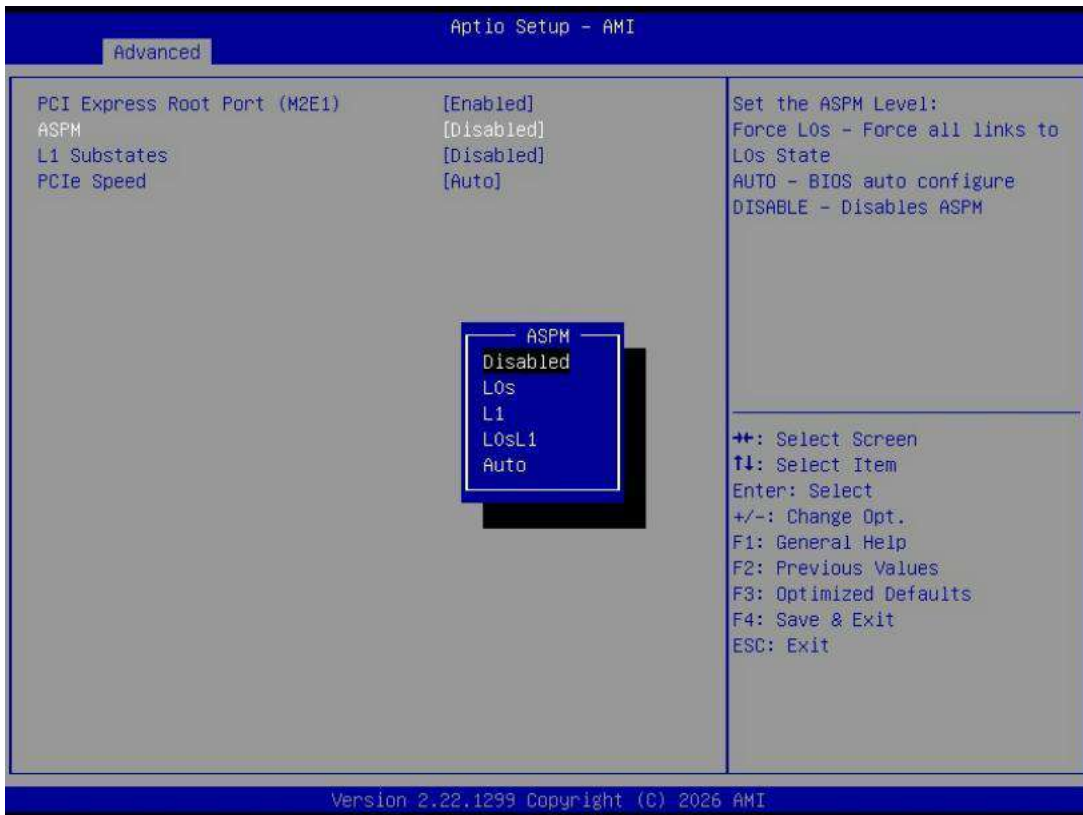


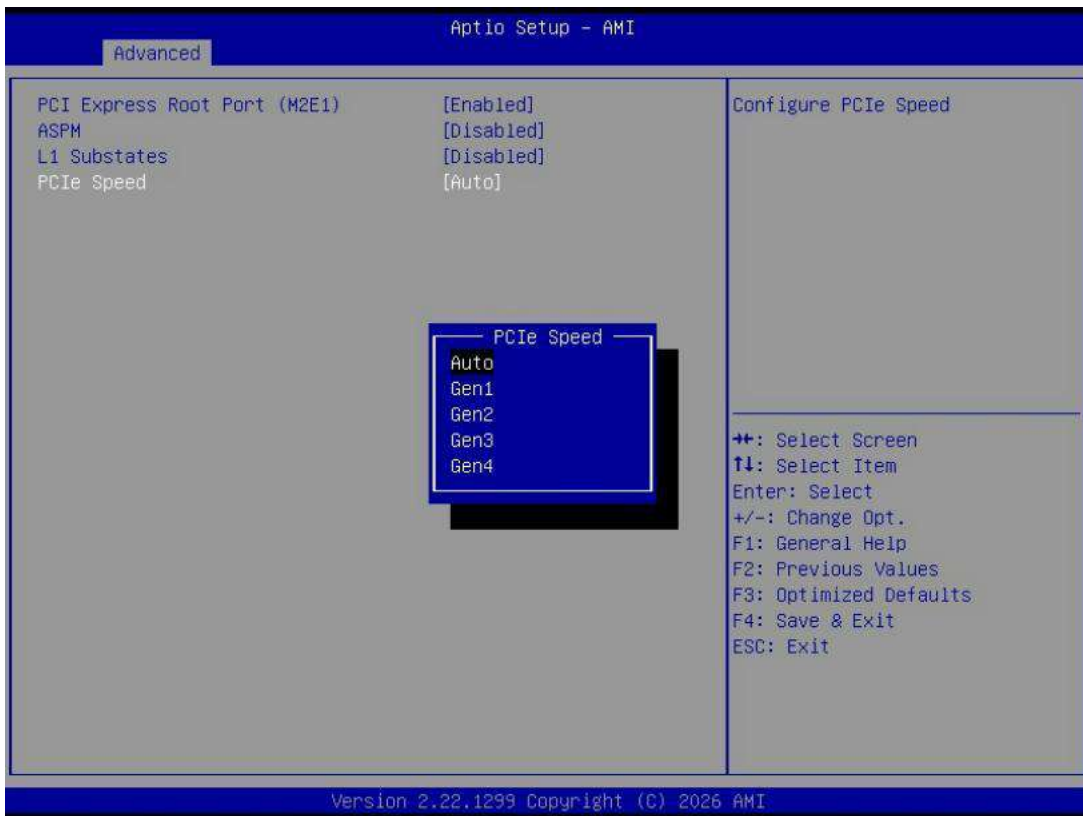
3-4-5-3 PCI Express Root Port (M2B1)



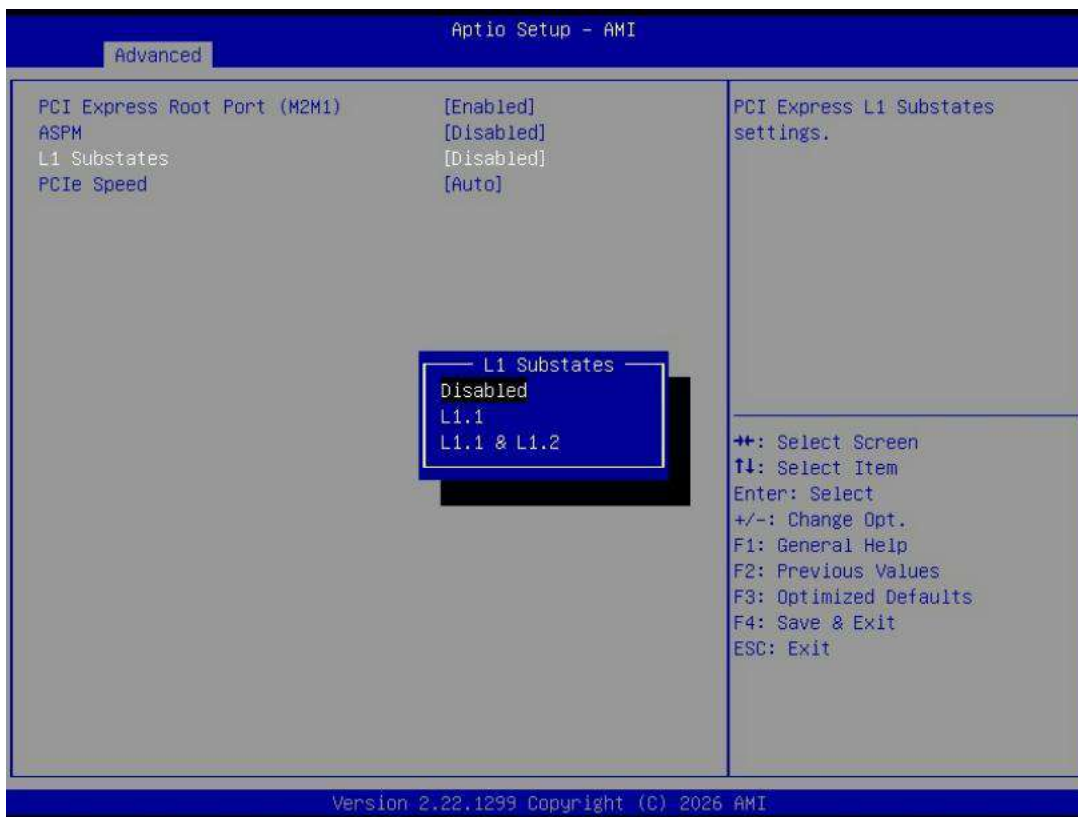
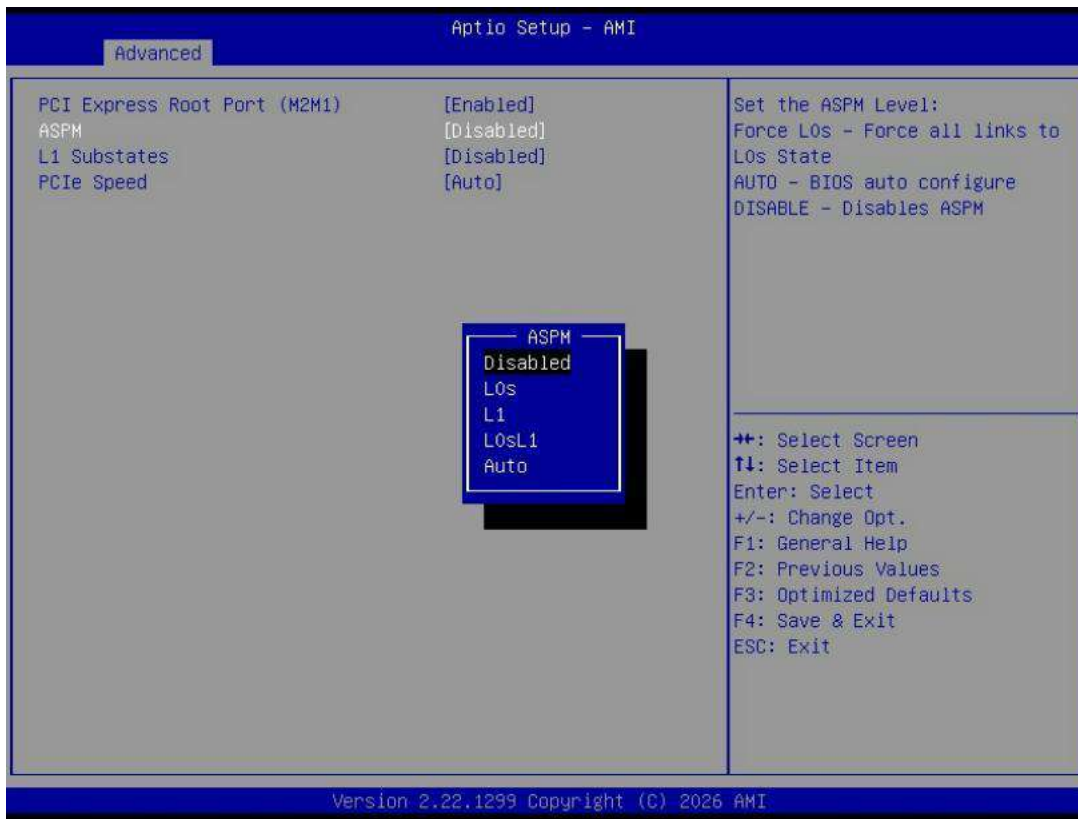


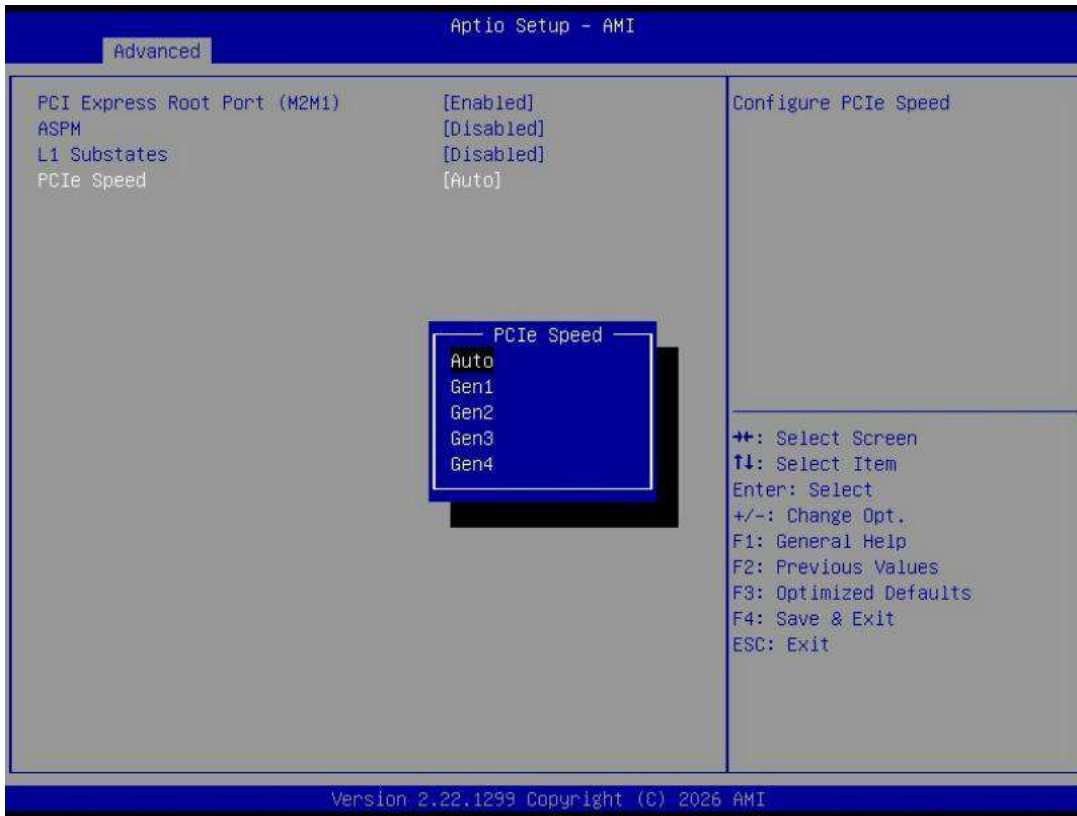
3-4-5-4 PCI Express Root Port (M2E1)



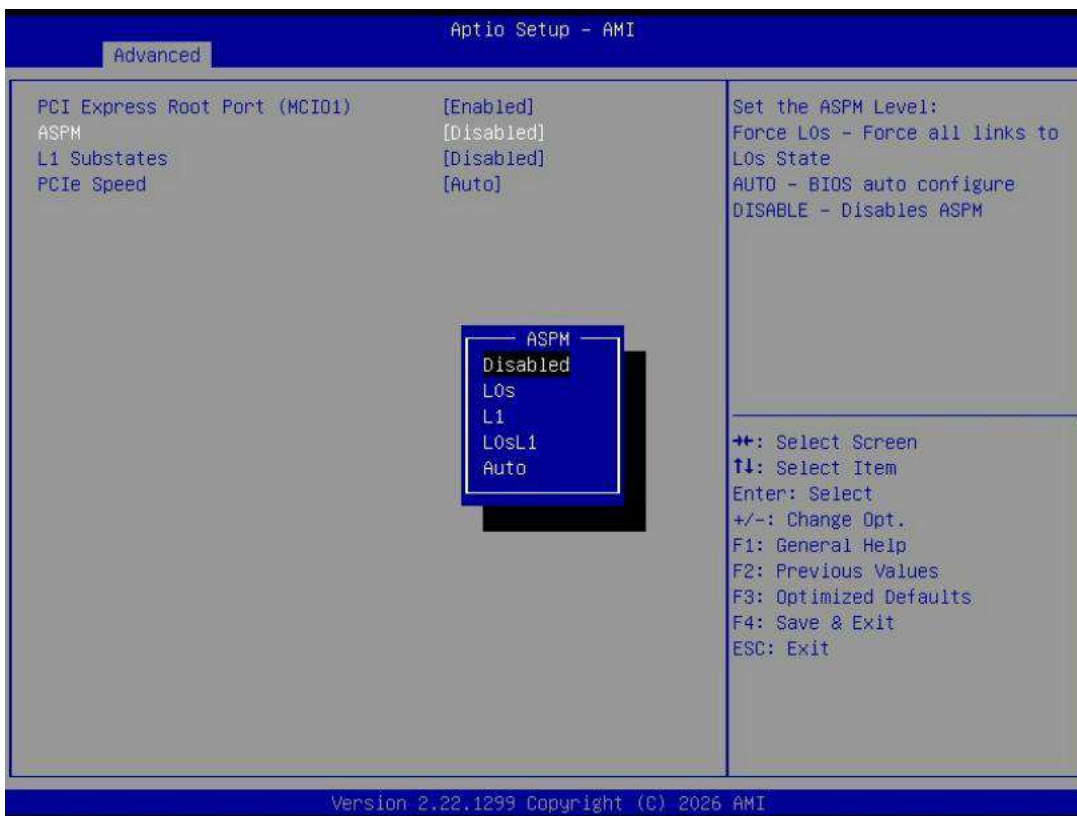


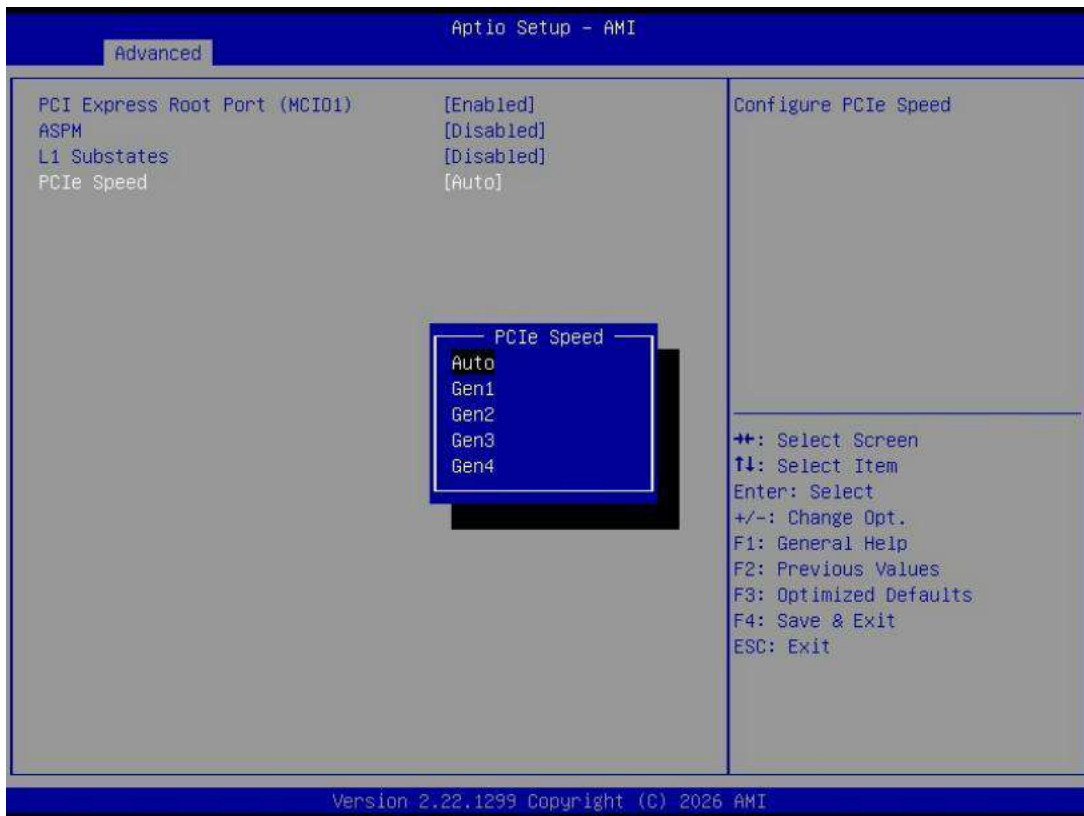
3-4-5-5 PCI Express Root Port (M2M1)



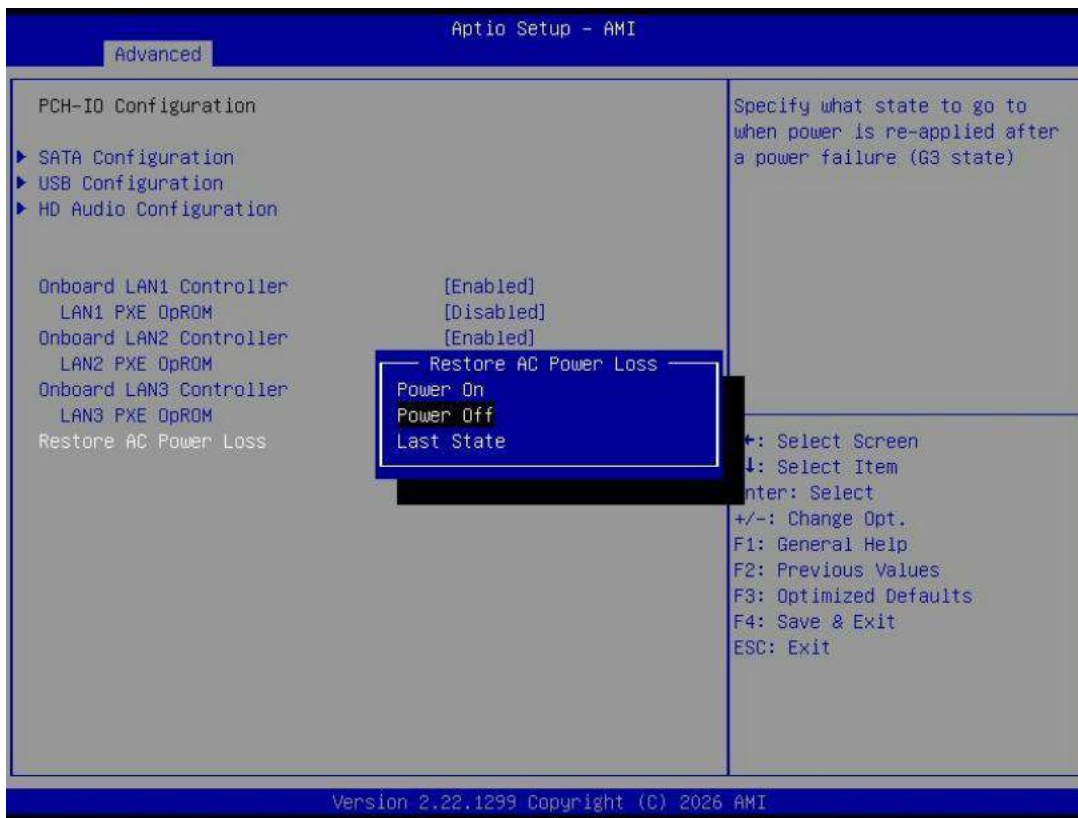


3-4-5-6 PCI Express Root Port (MCI01)



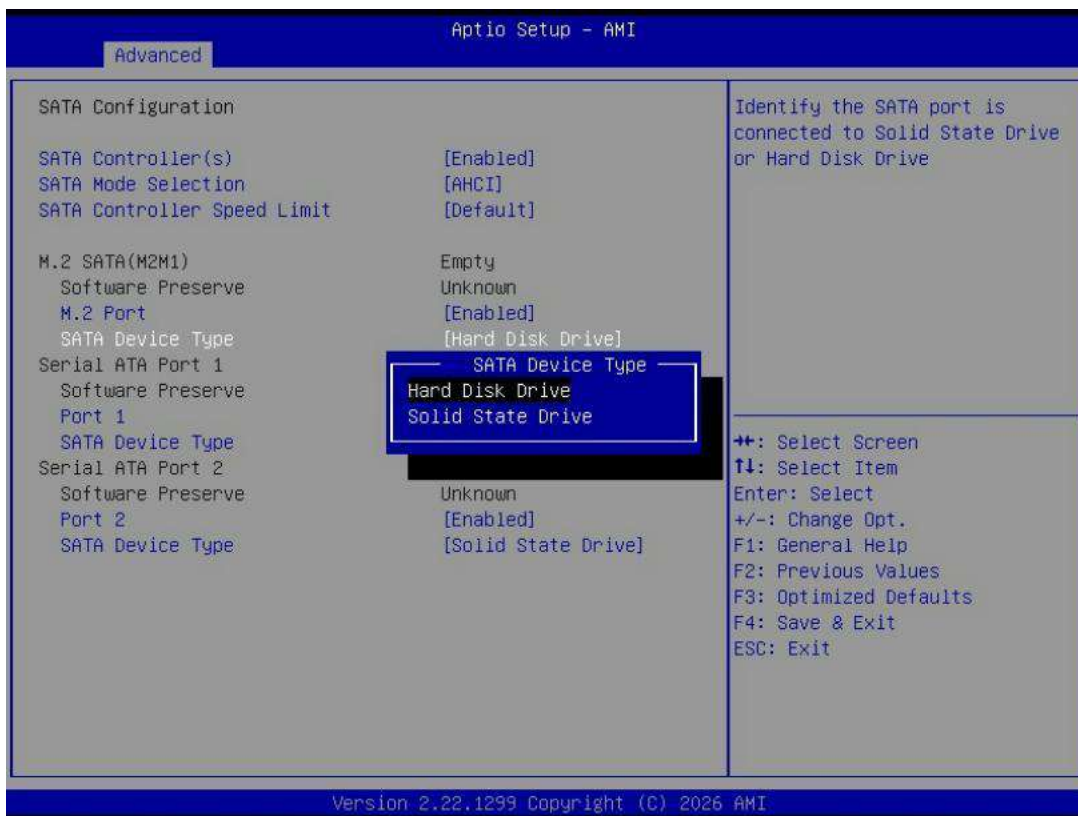
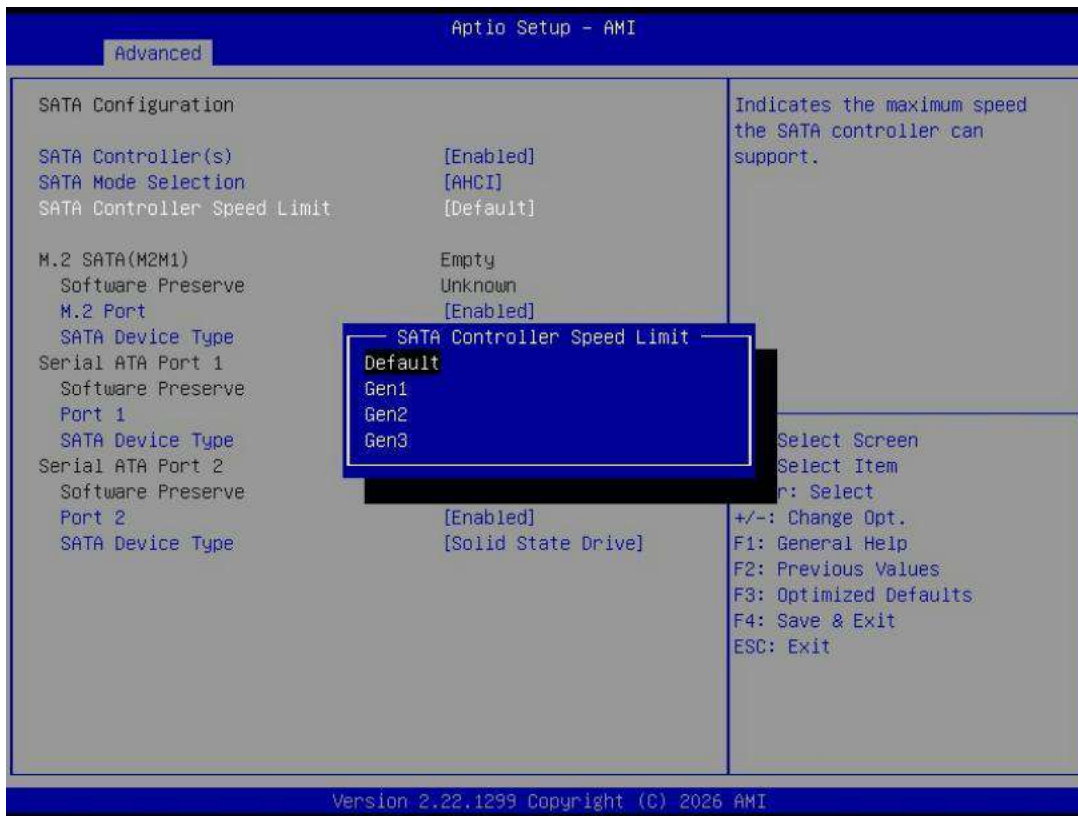


3-4-6 PCH-IO Configuration

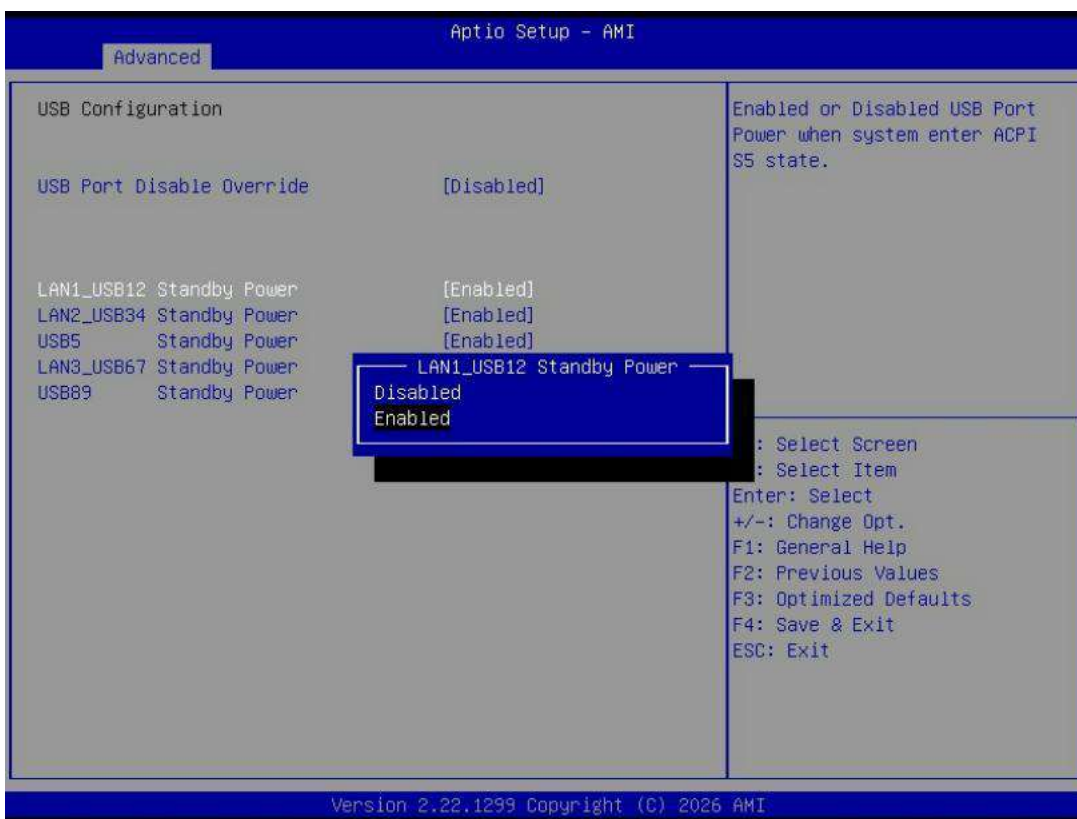
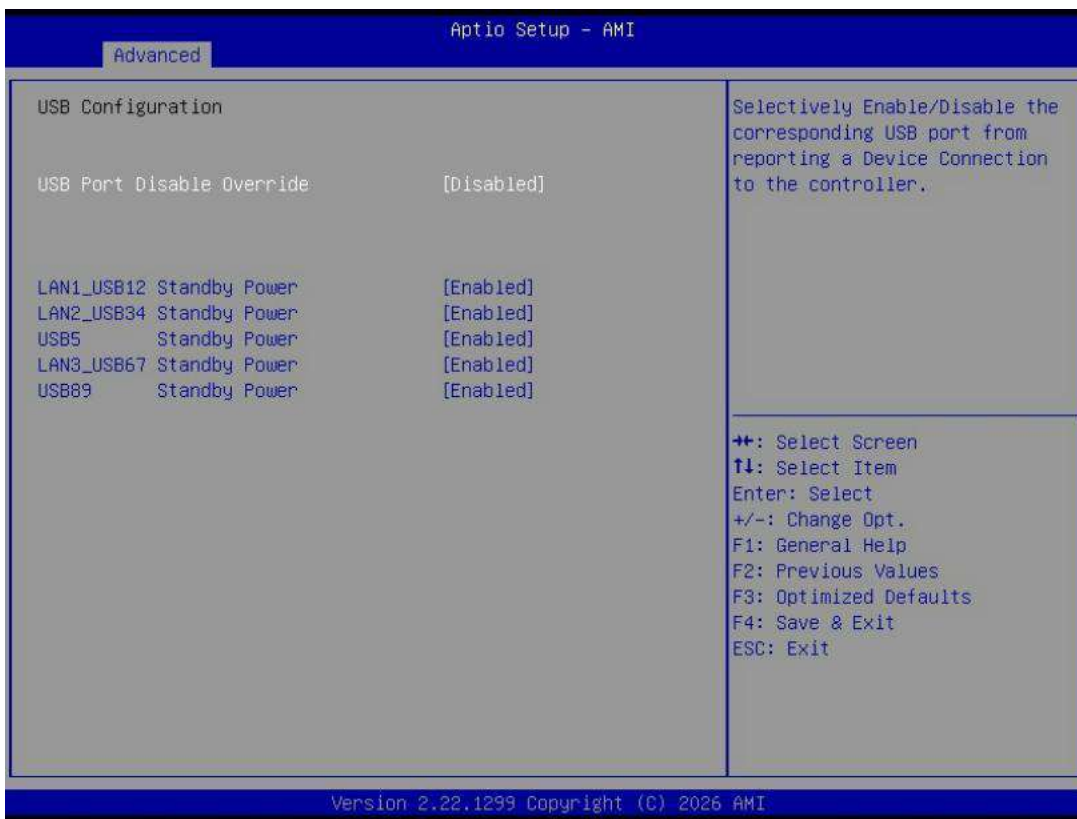


3-4-6-1 SATA Configuration





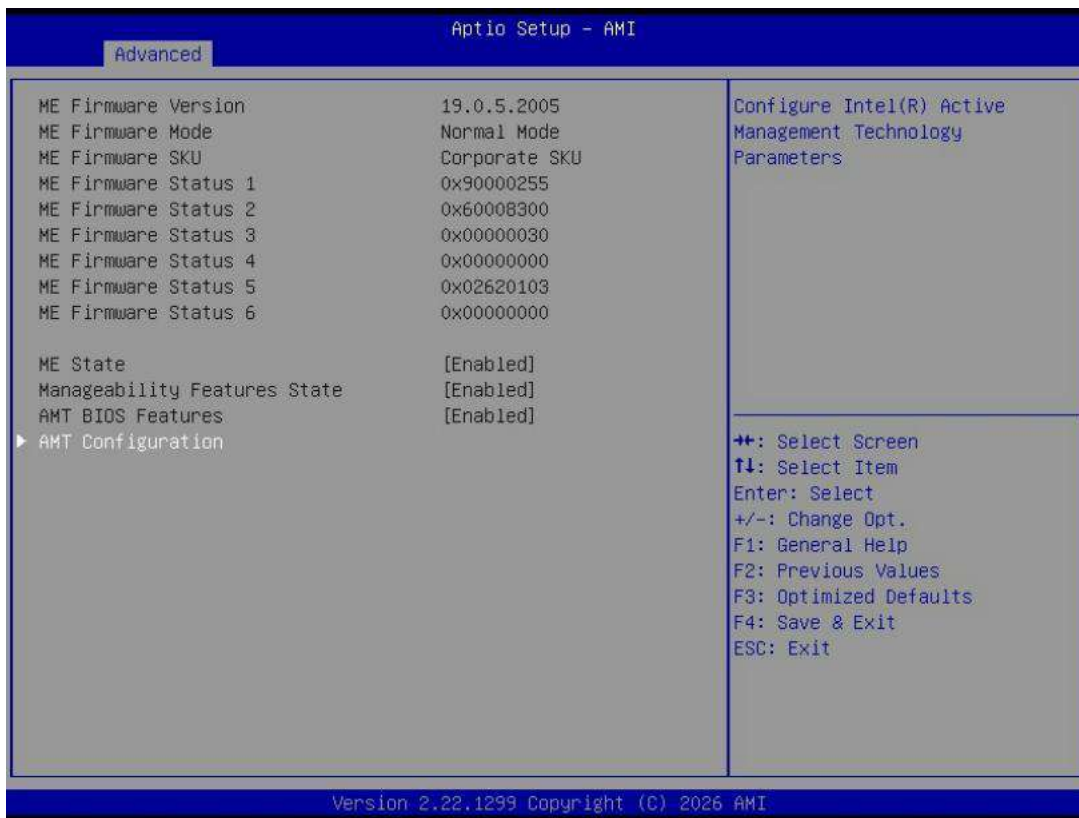
3-4-6-2 USB Configuration



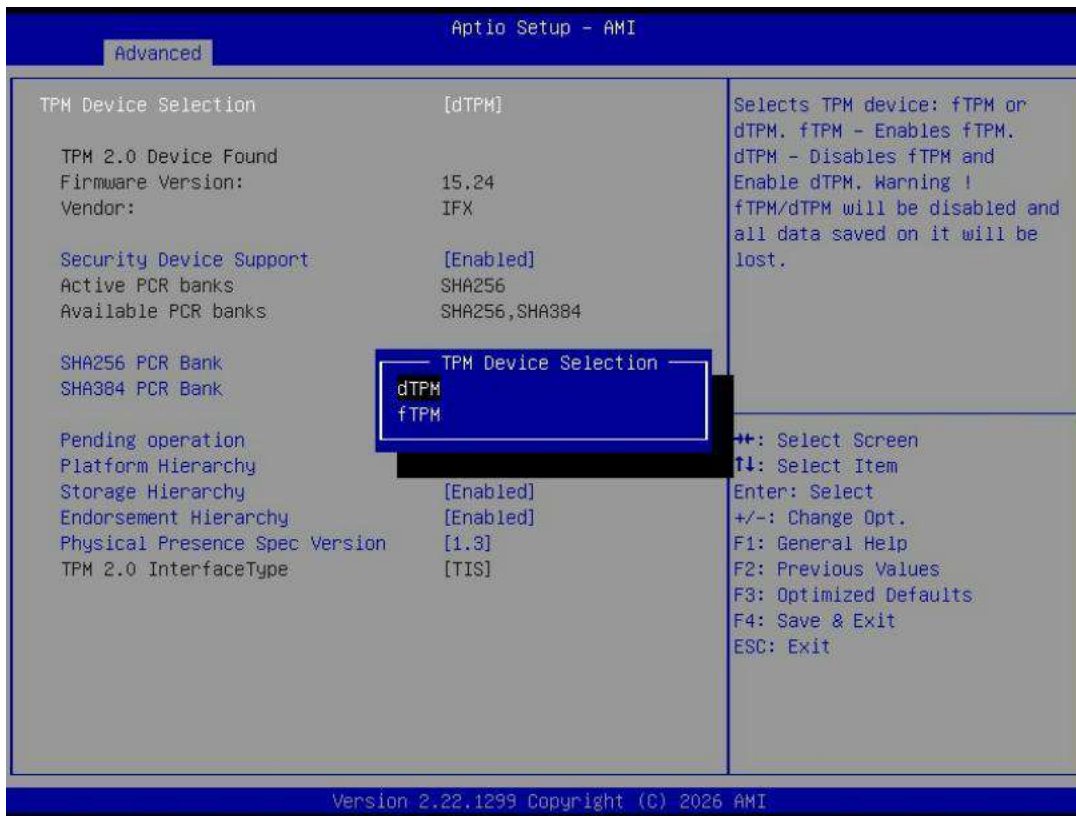
3-4-6-3 HD Audio Configuration



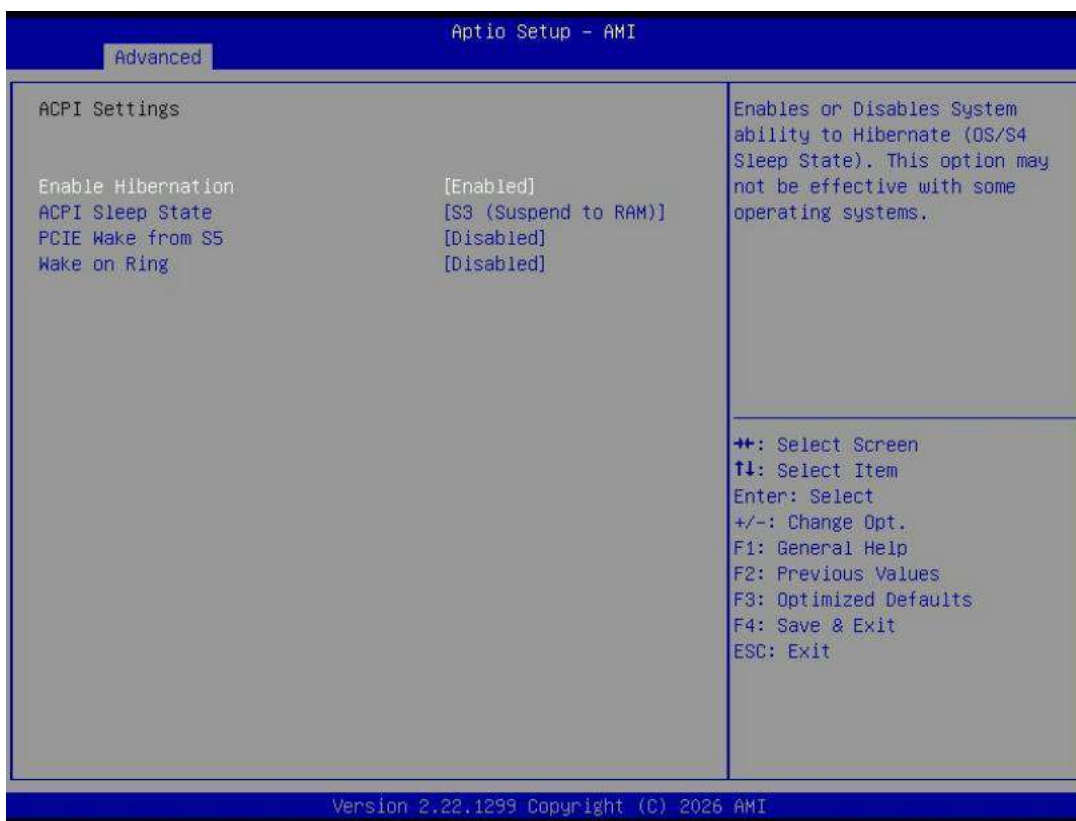
3-4-7 PCH-FW configuration



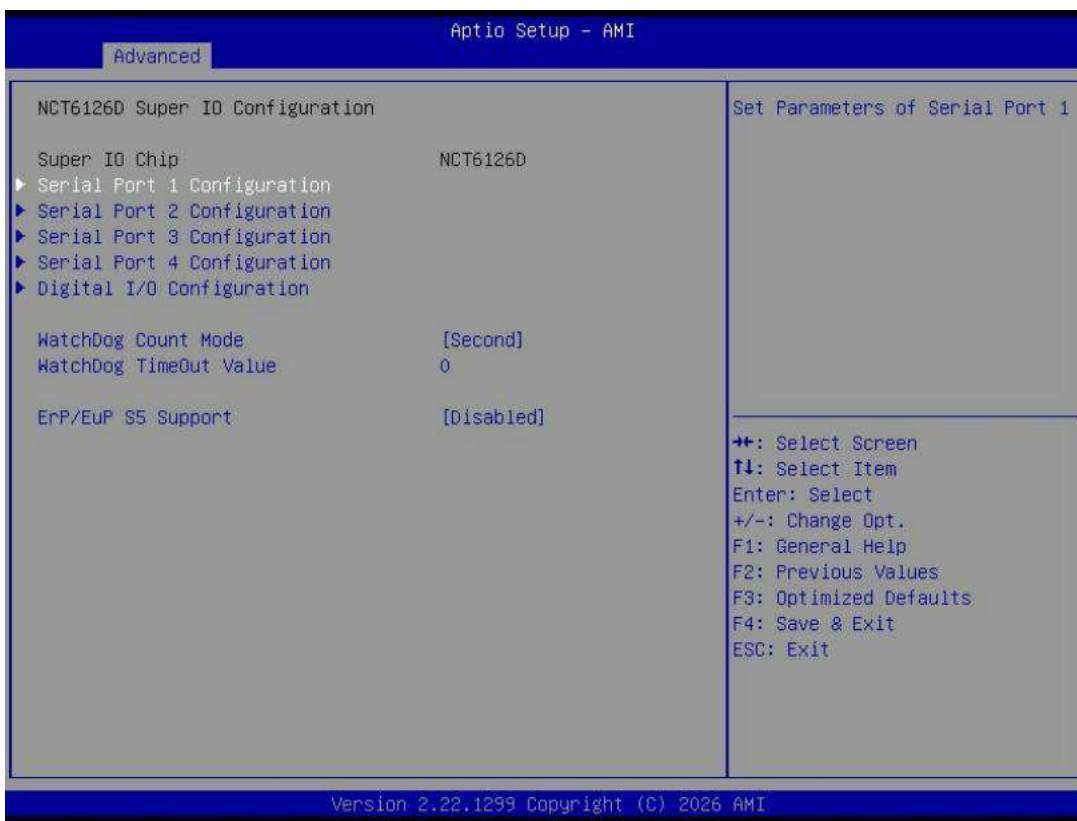
3-4-8 Trusted Computing

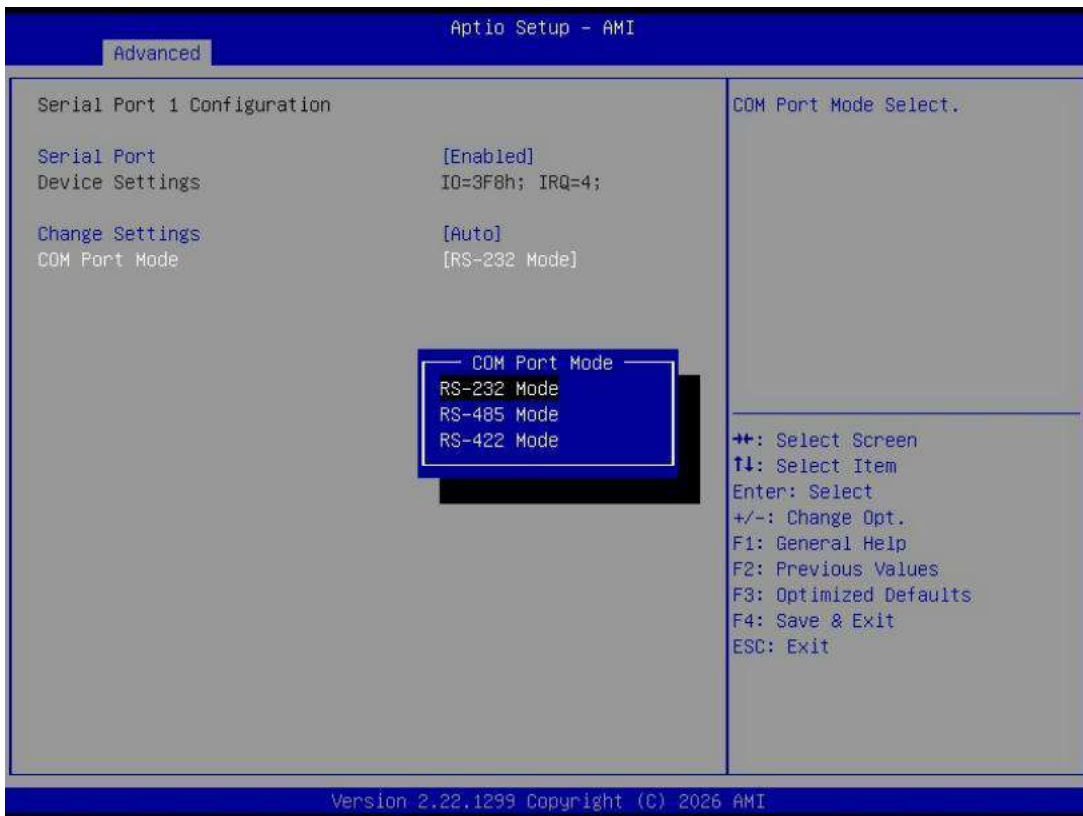
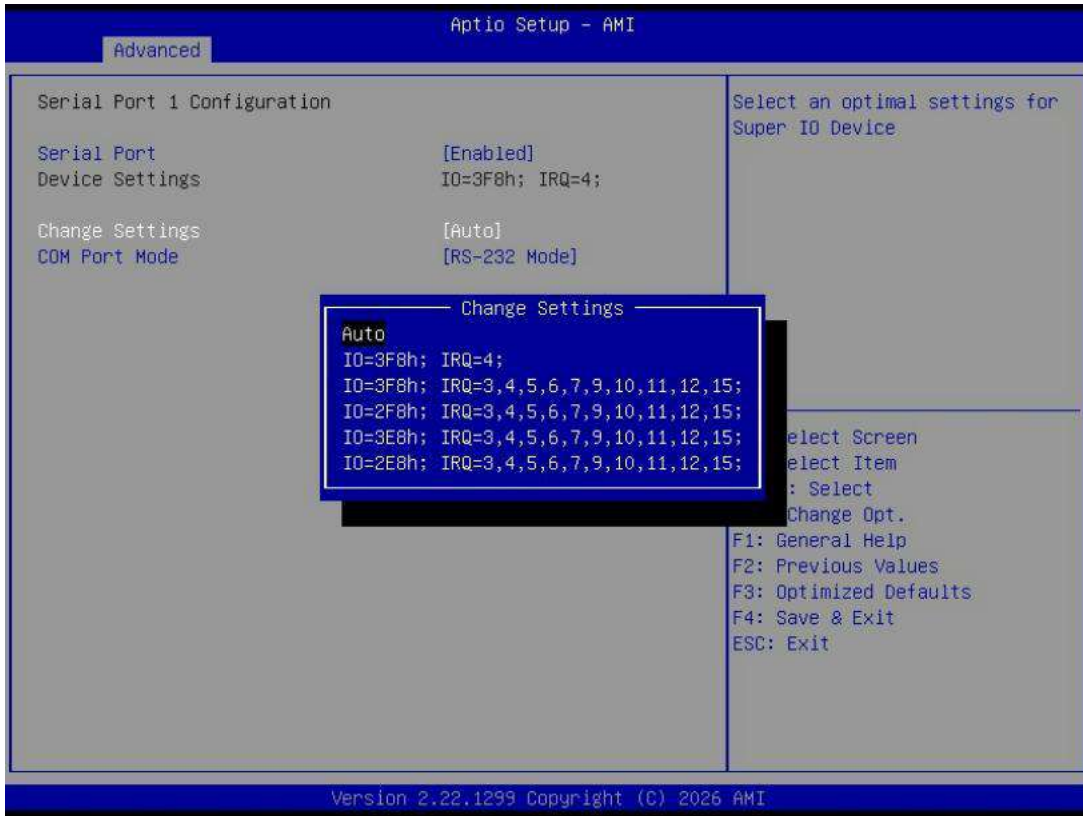


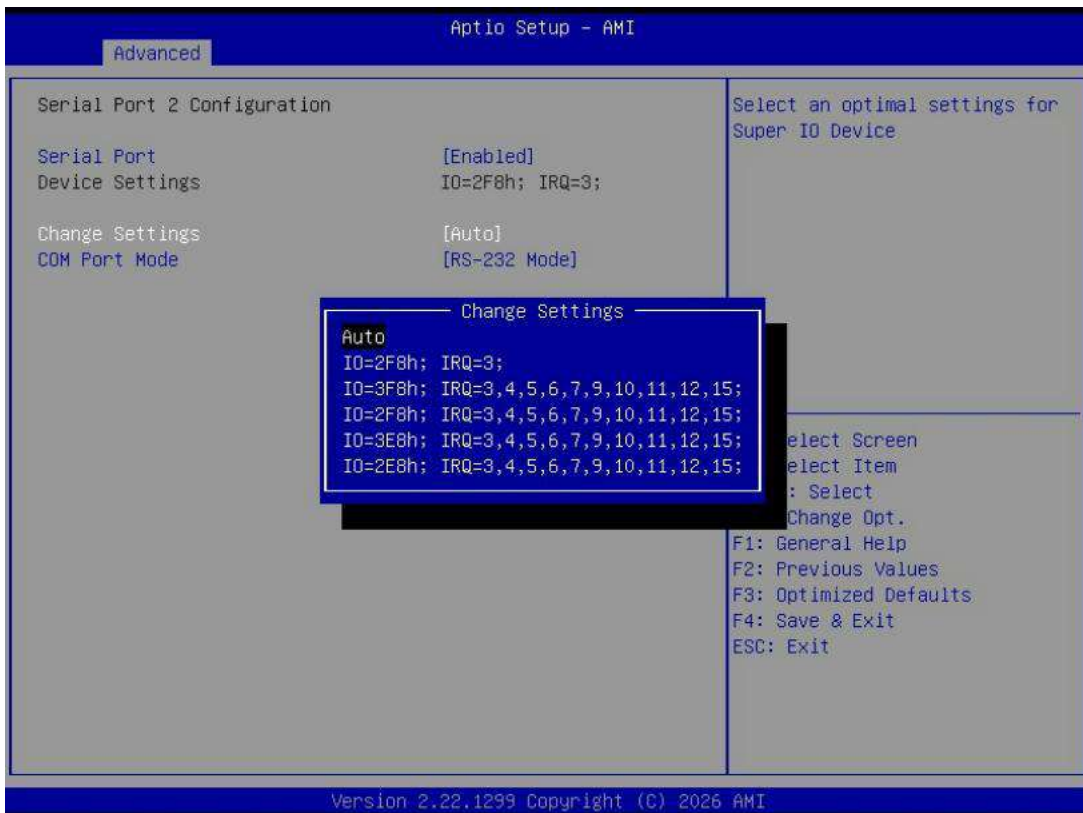
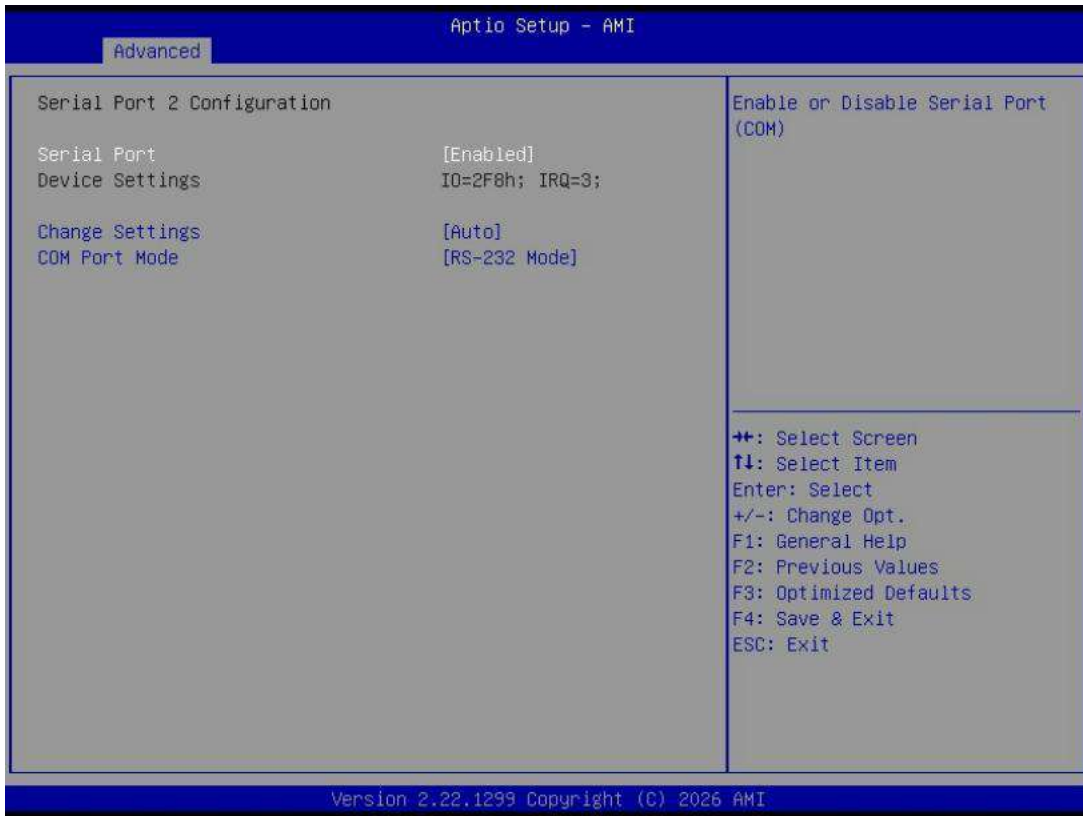
3-4-9 ACPI Settings

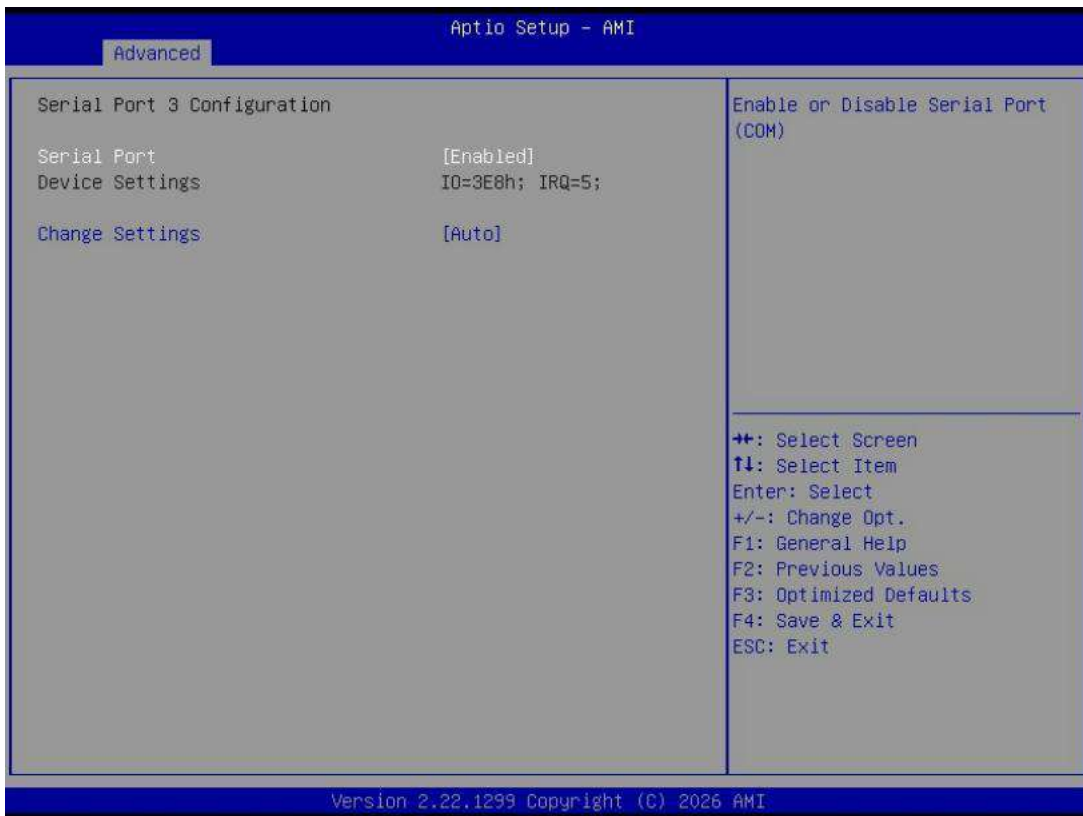
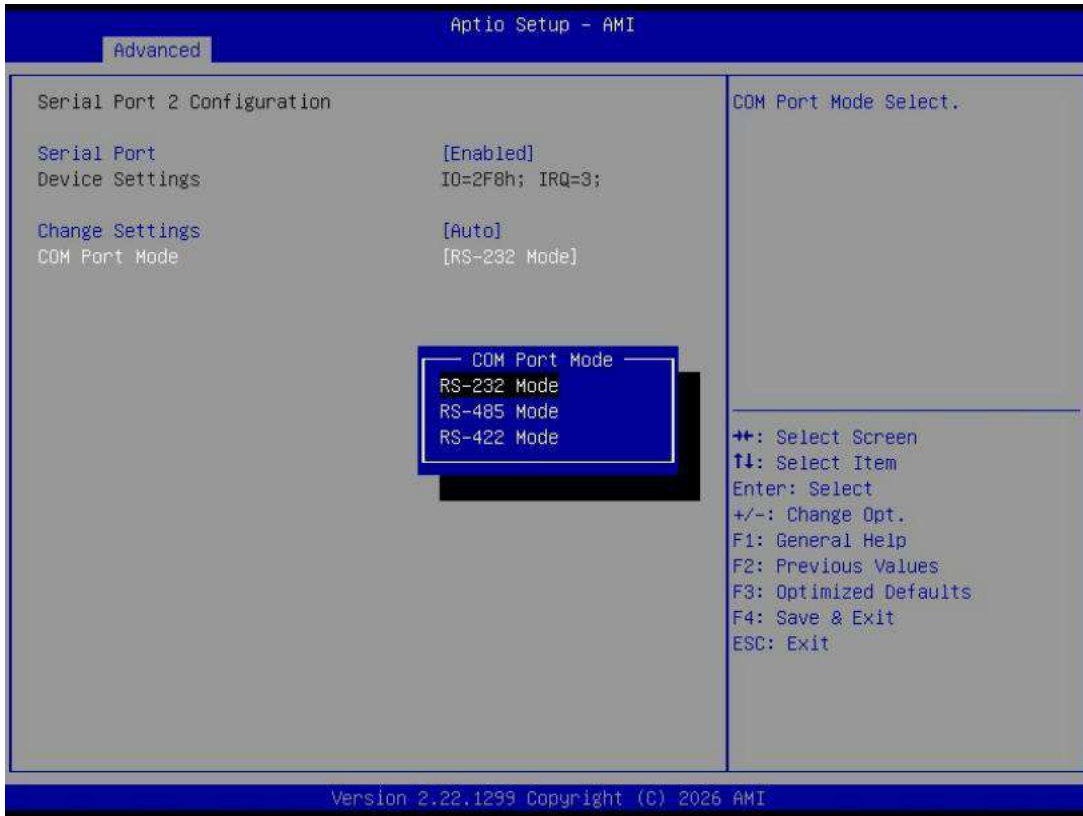


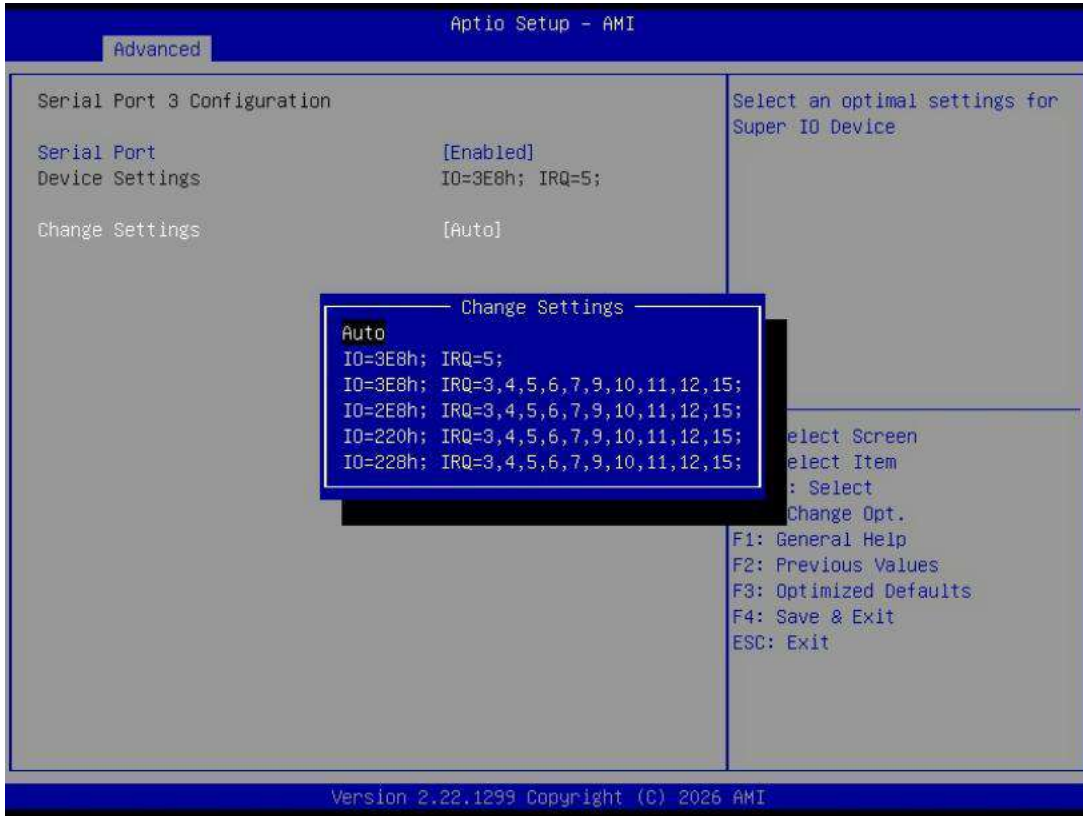
3-4-10 NCT6126D Super IO Configuration

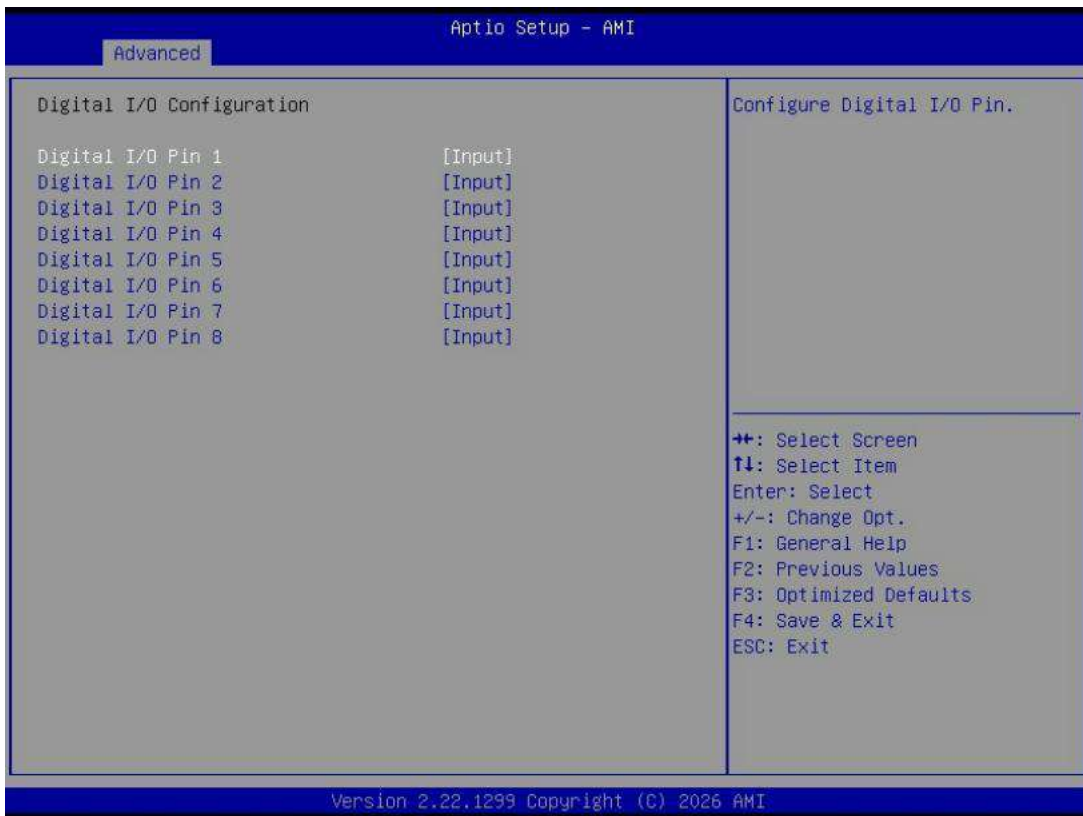
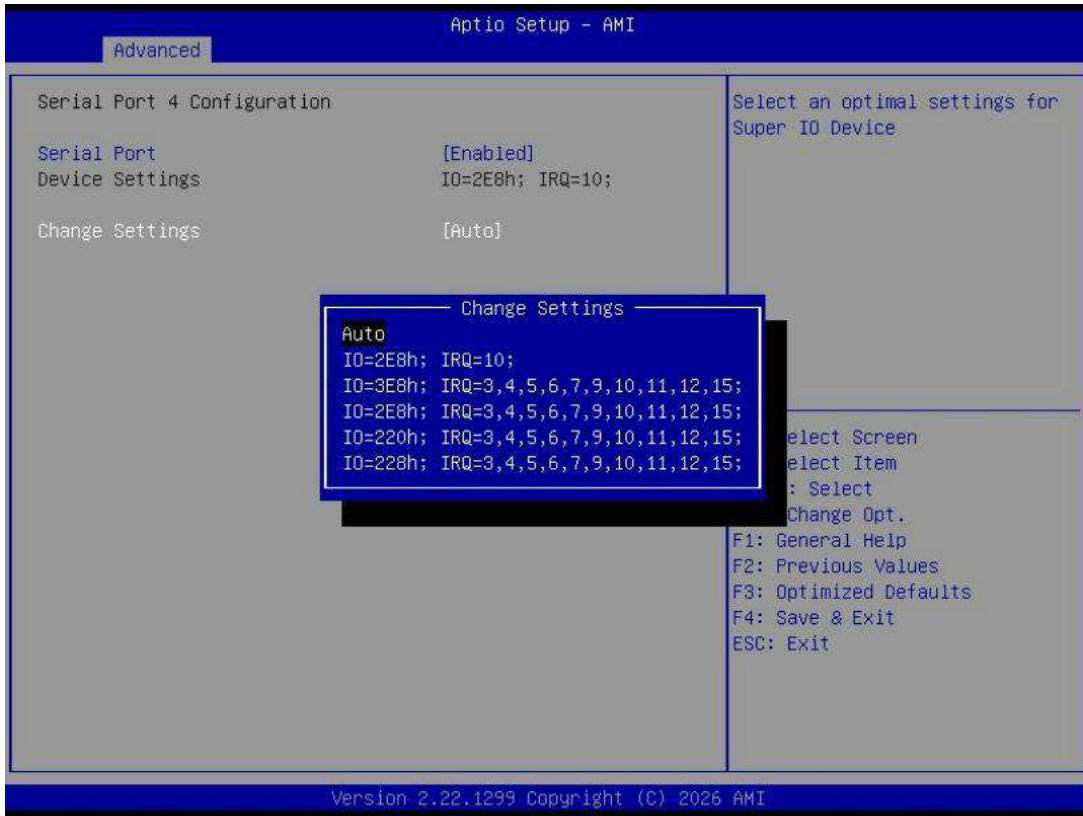


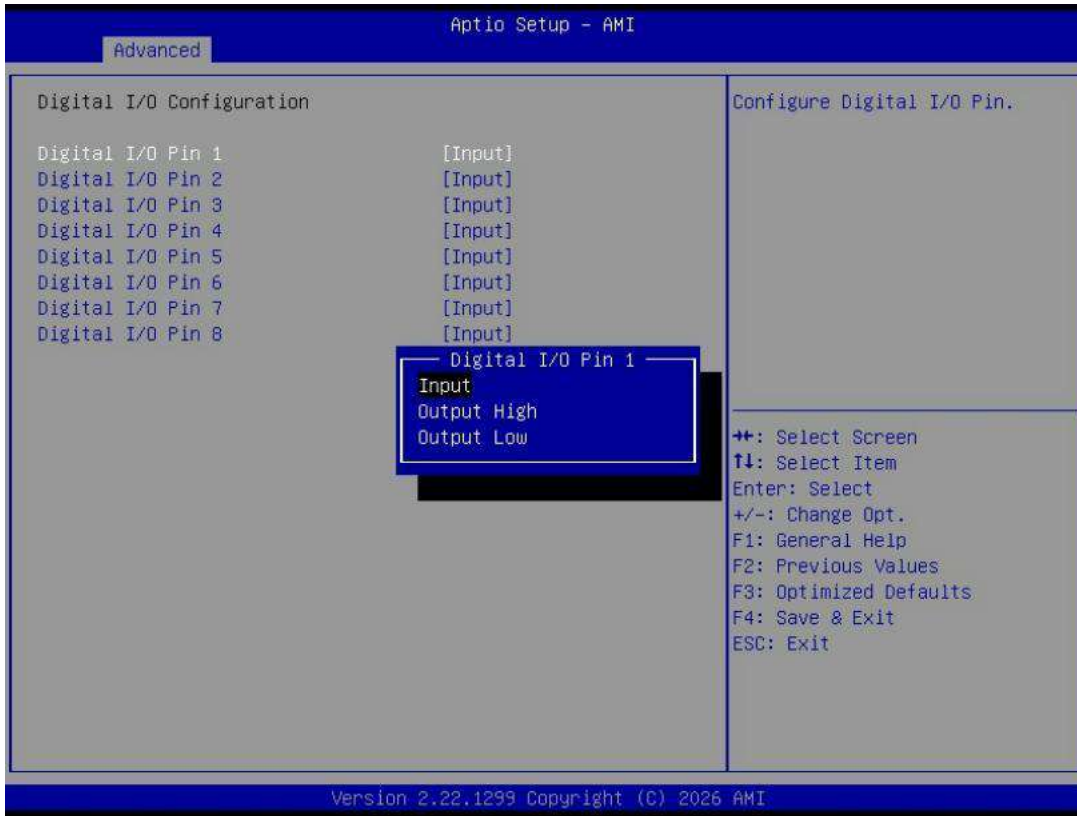




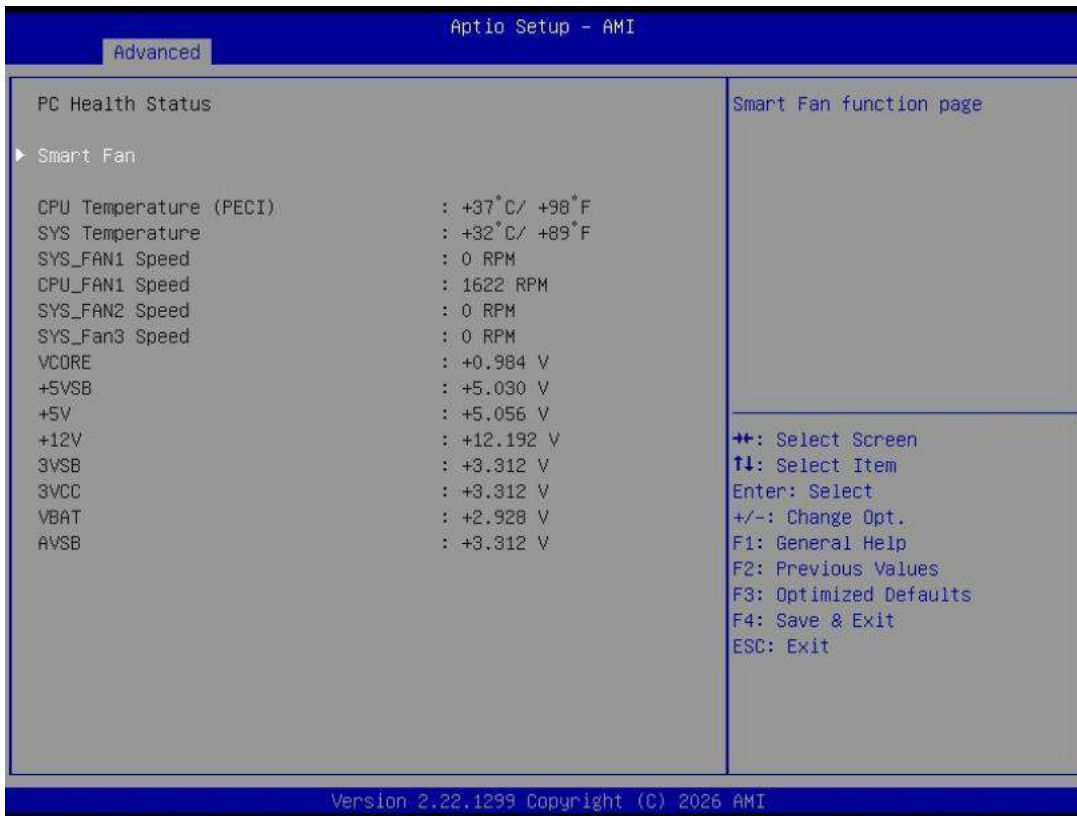




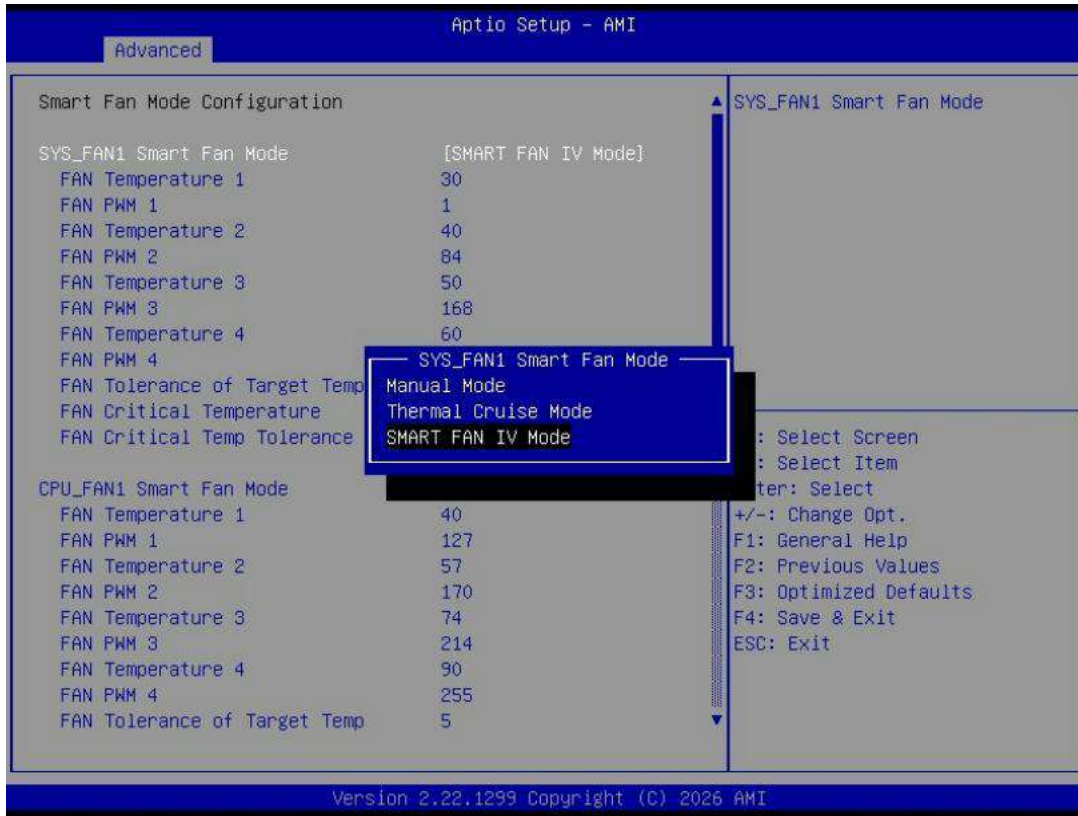




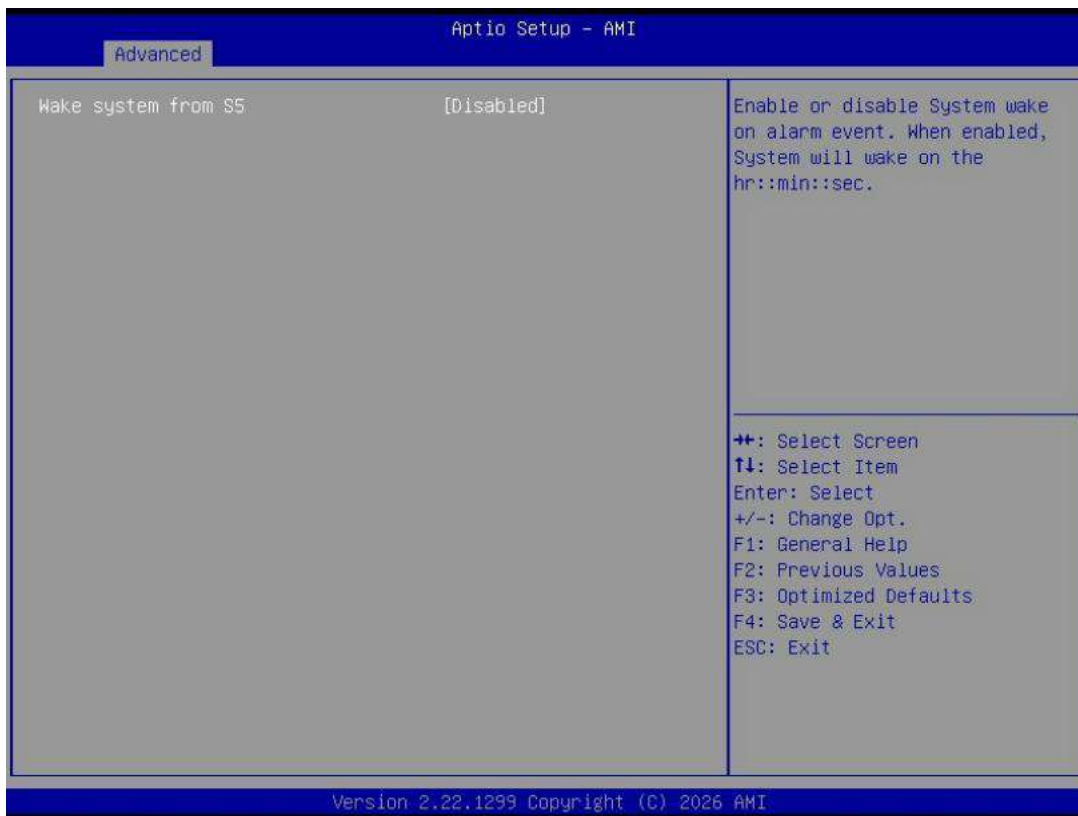
3-4-11 Hardware Monitor



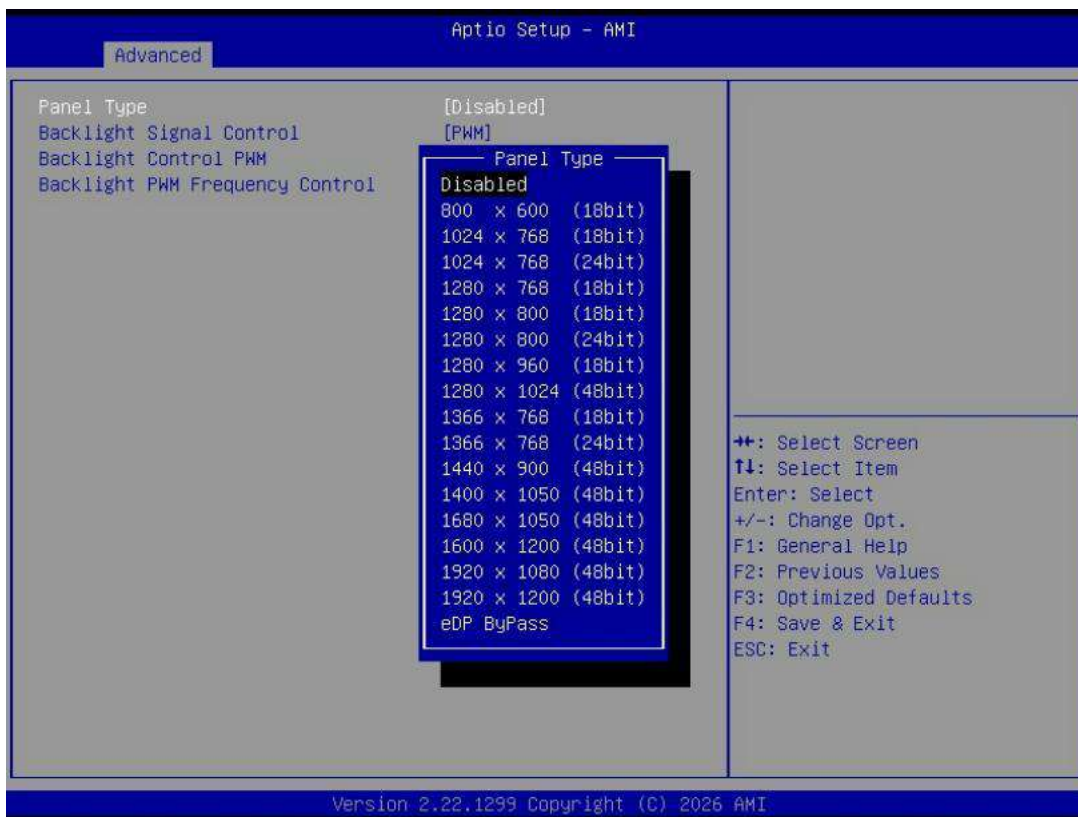
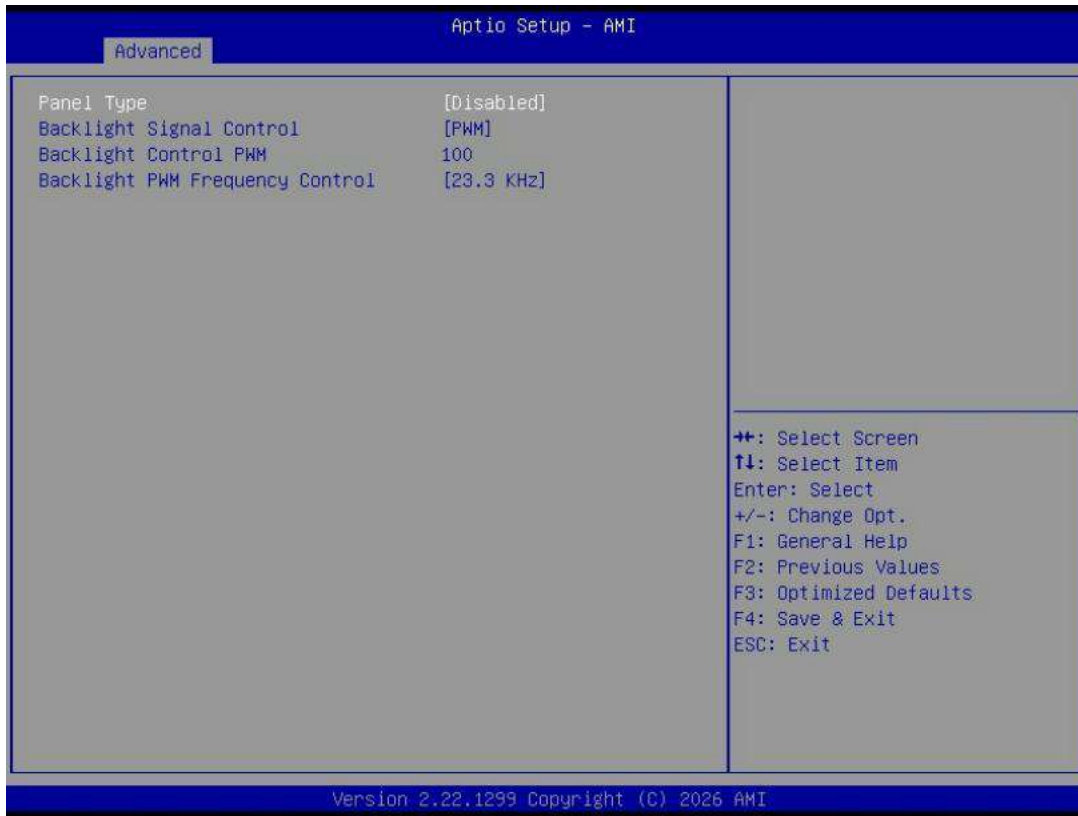


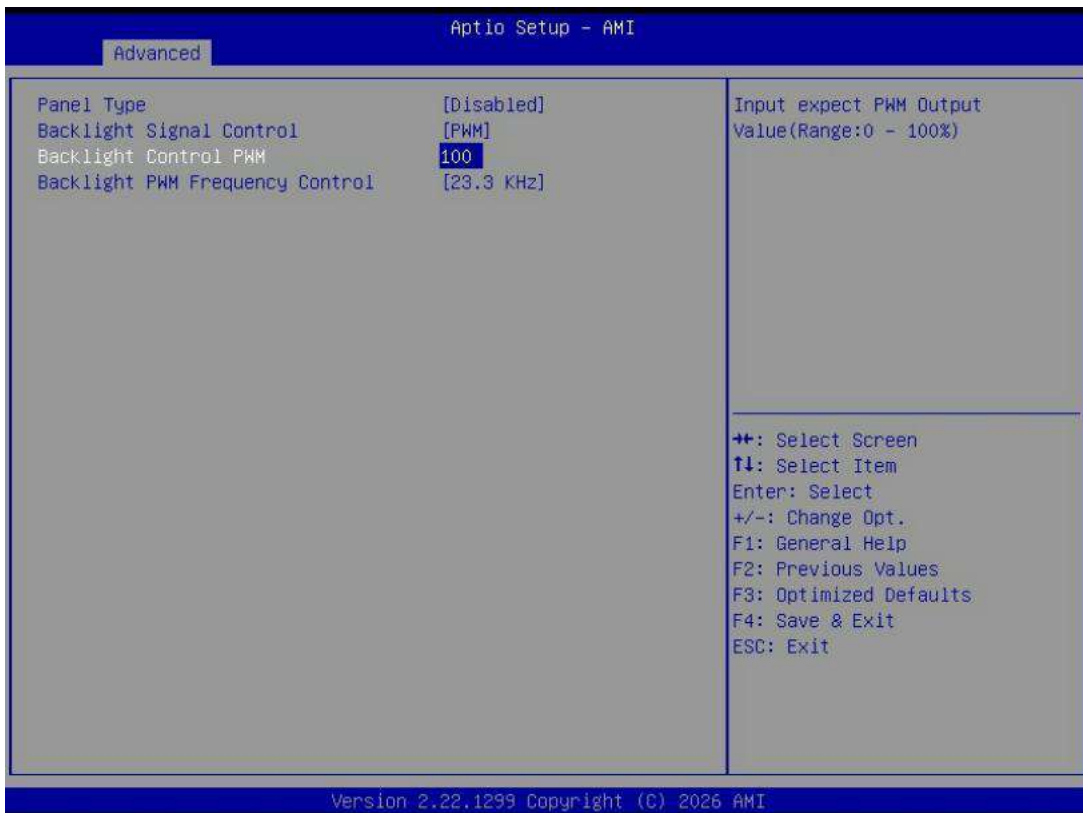
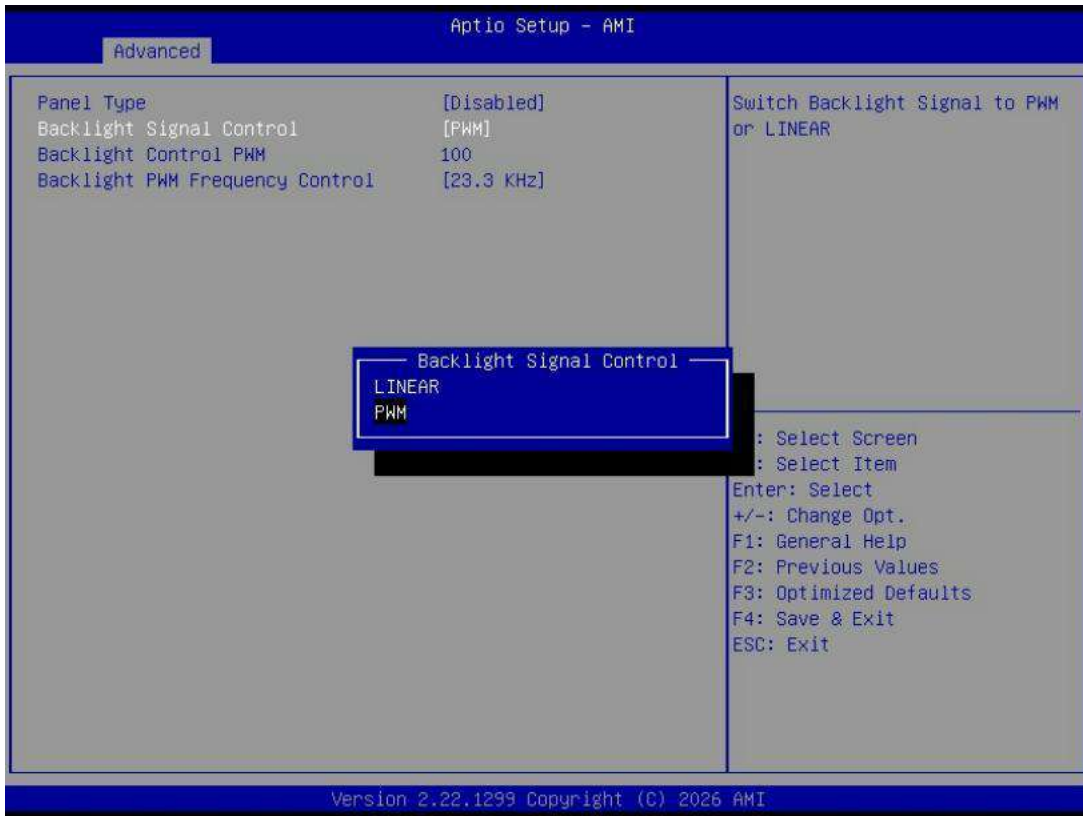


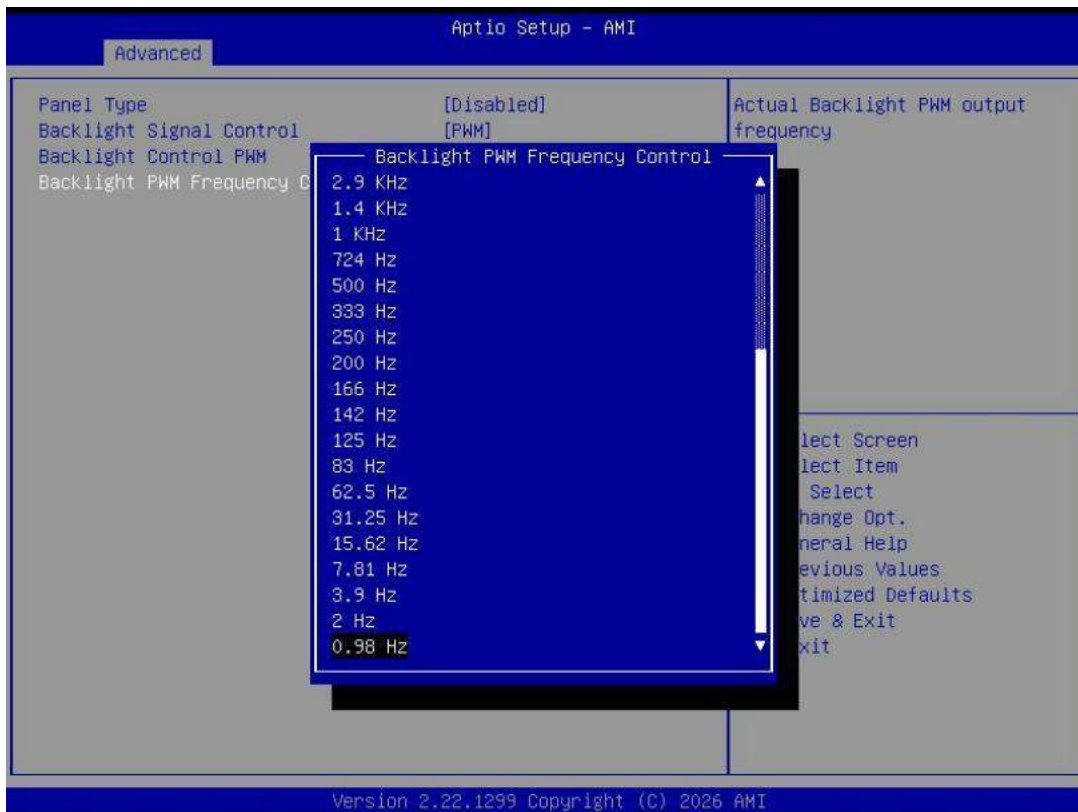
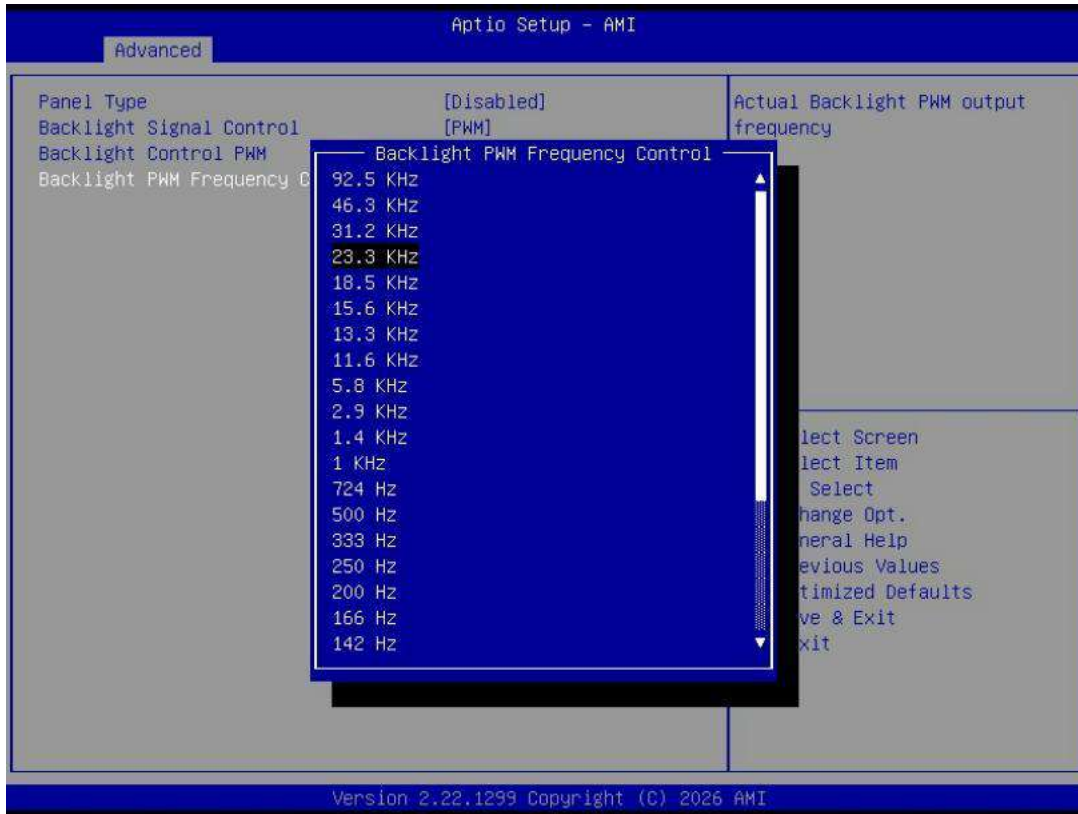
3-4-12 S5 RTC Wake Settings



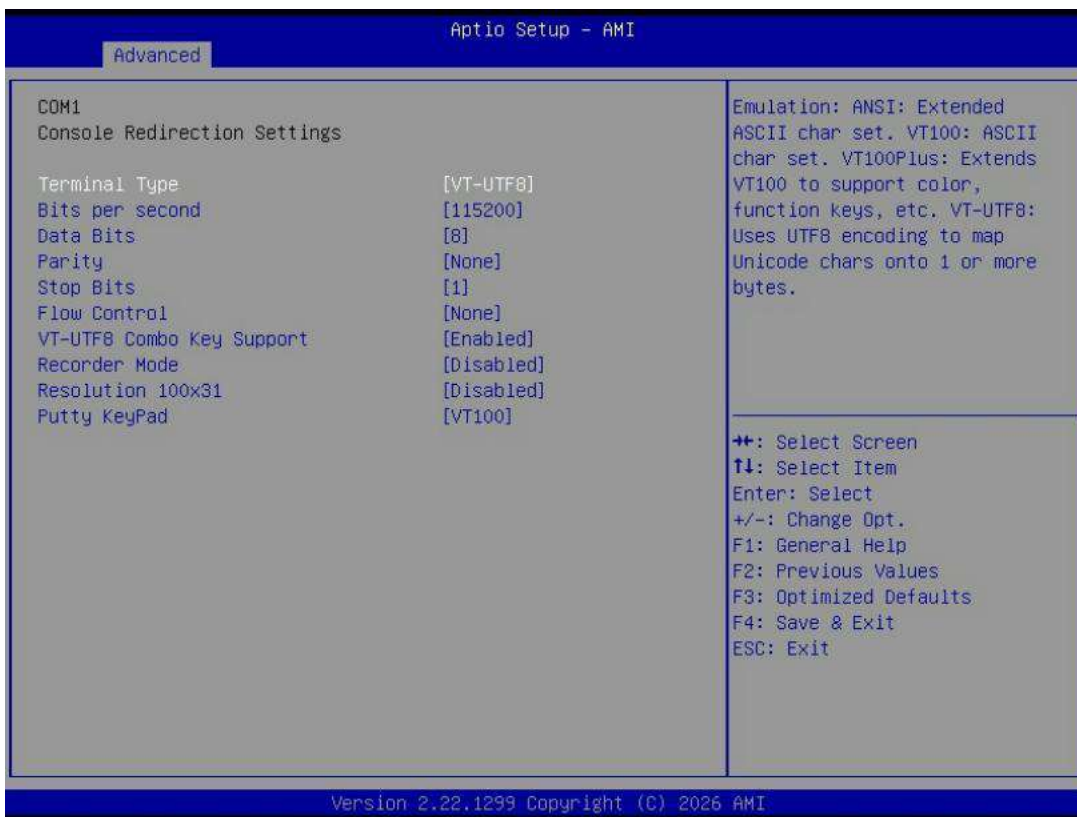
3-4-13 LCD Control



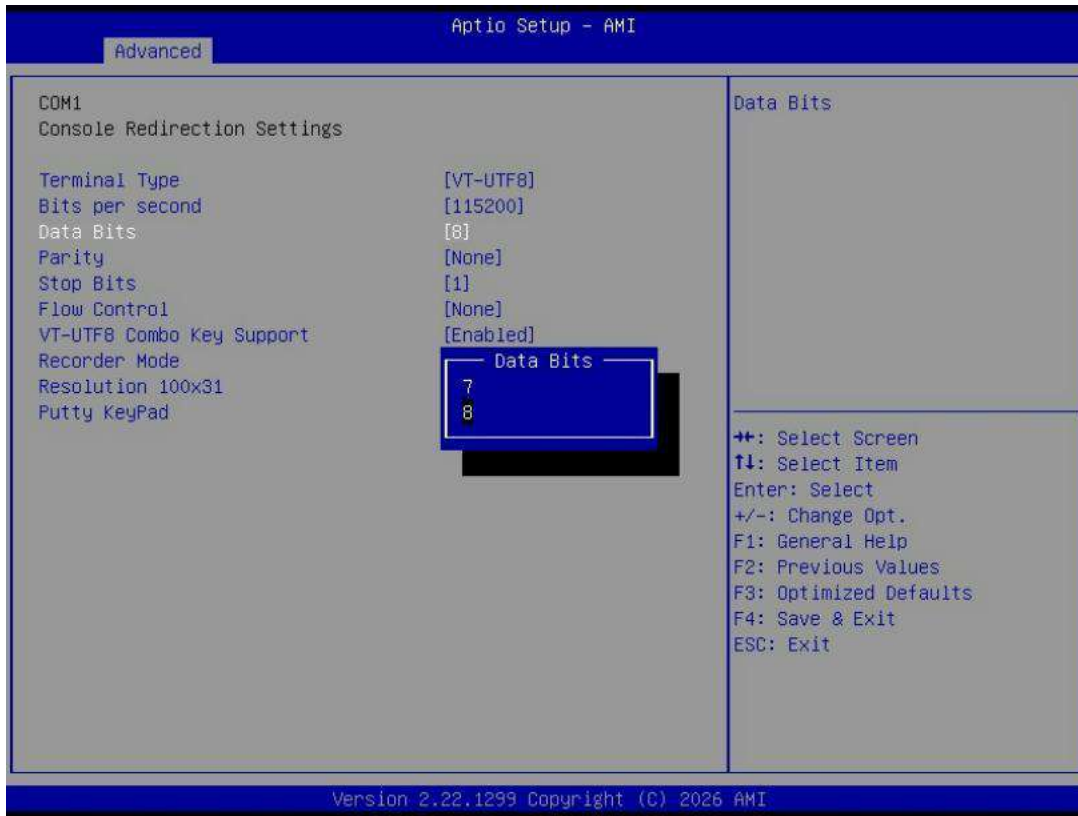


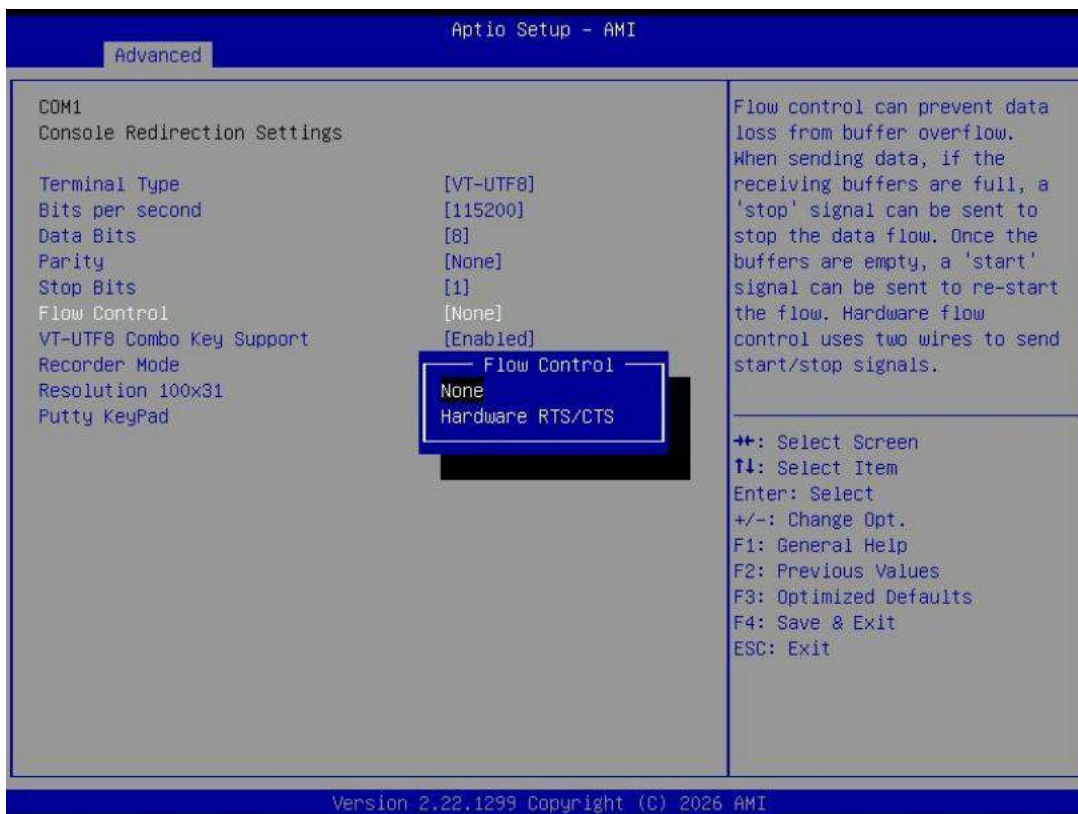
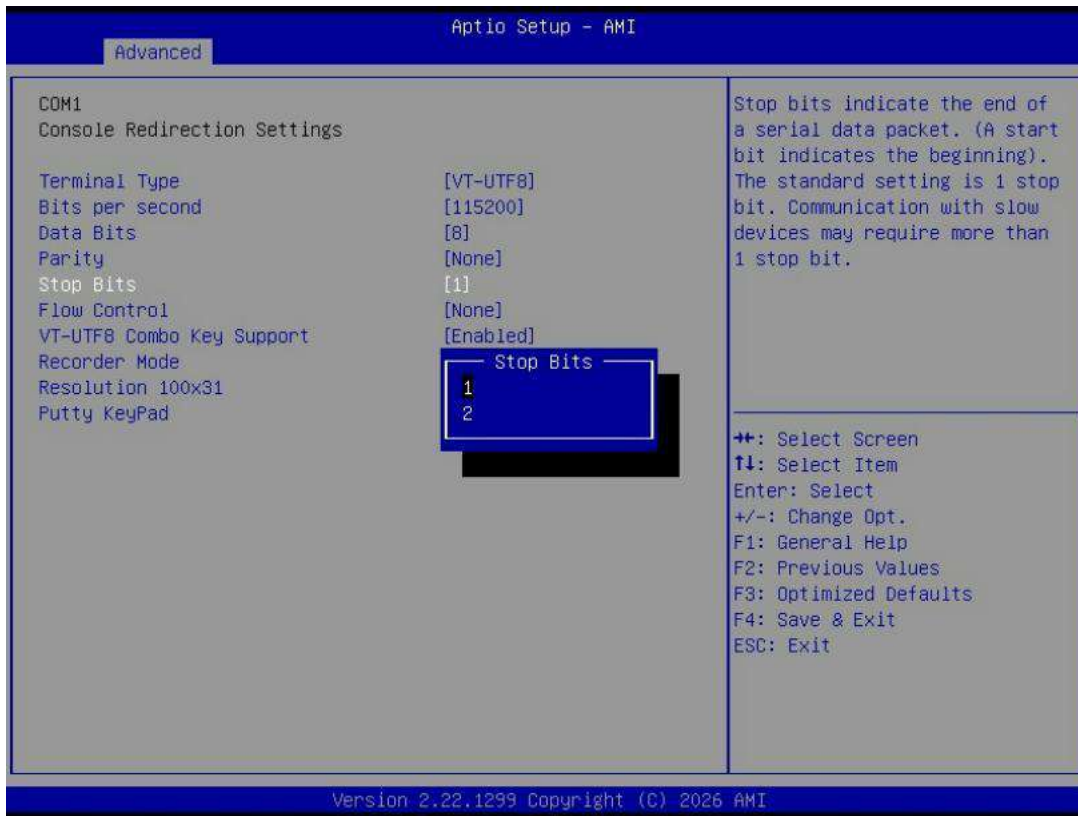


3-4-14 Serial Port Console Redirection







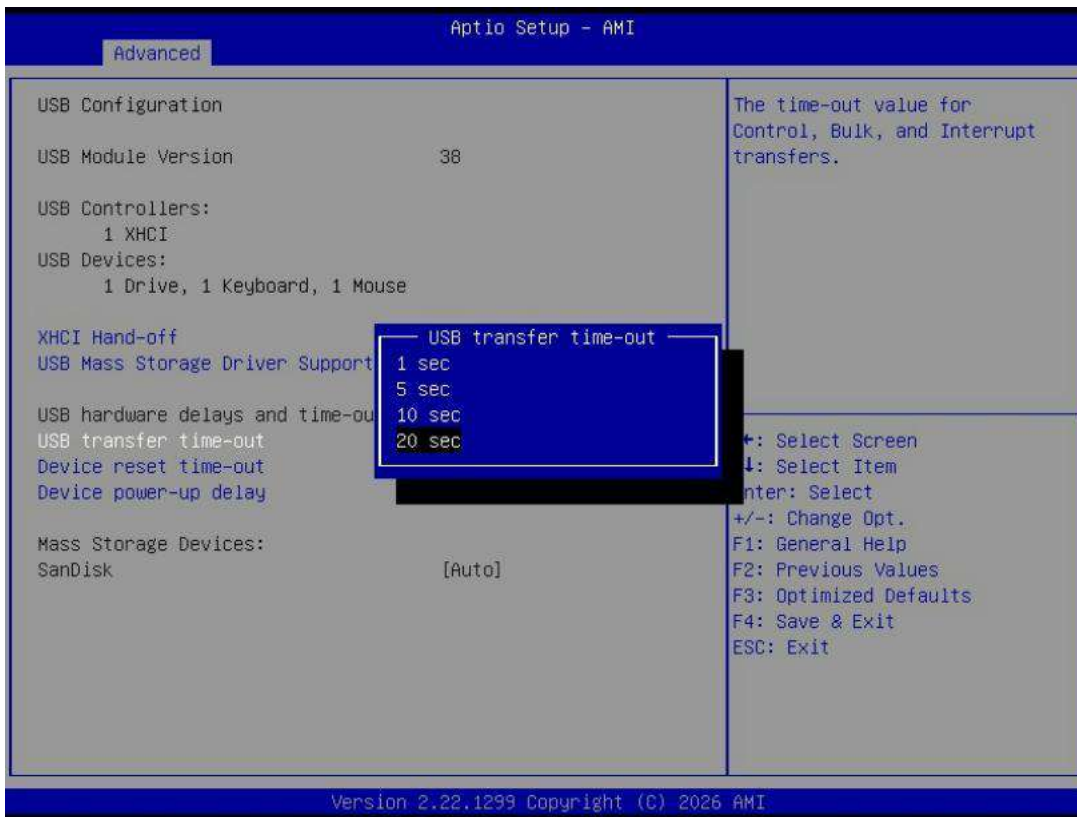
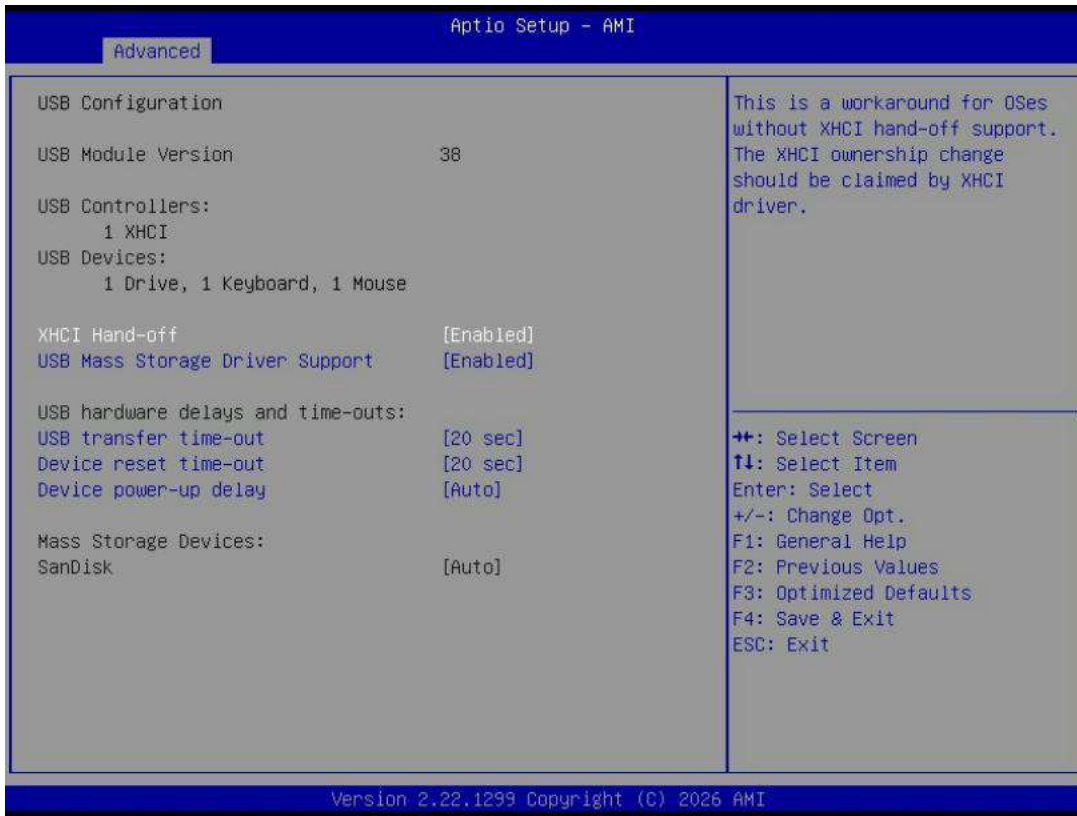


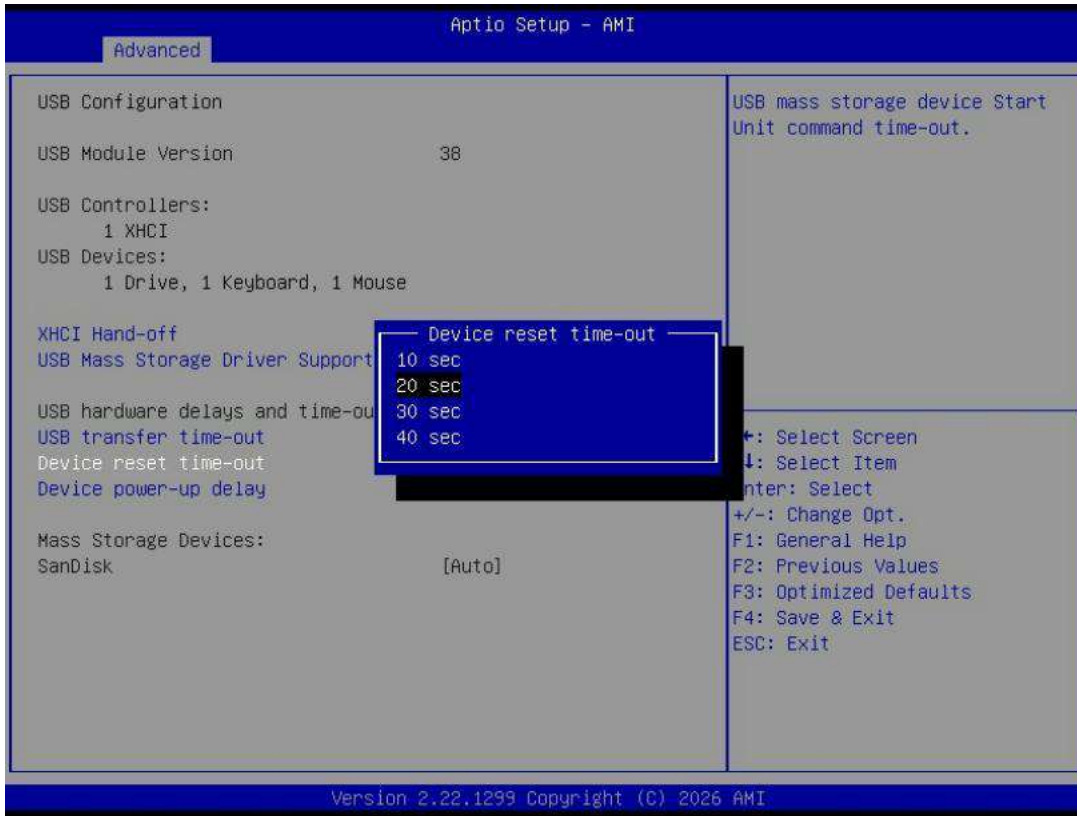


3-4-15 Intel TXT Information



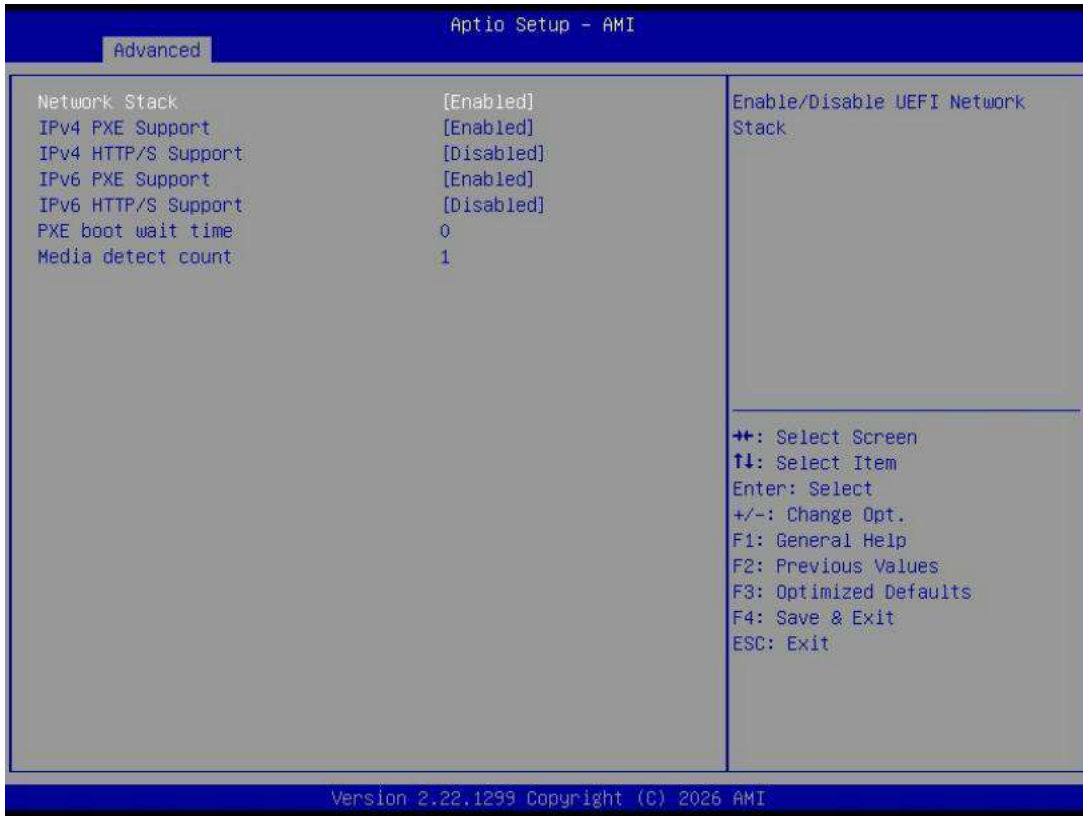
3-4-16 USB Configuration



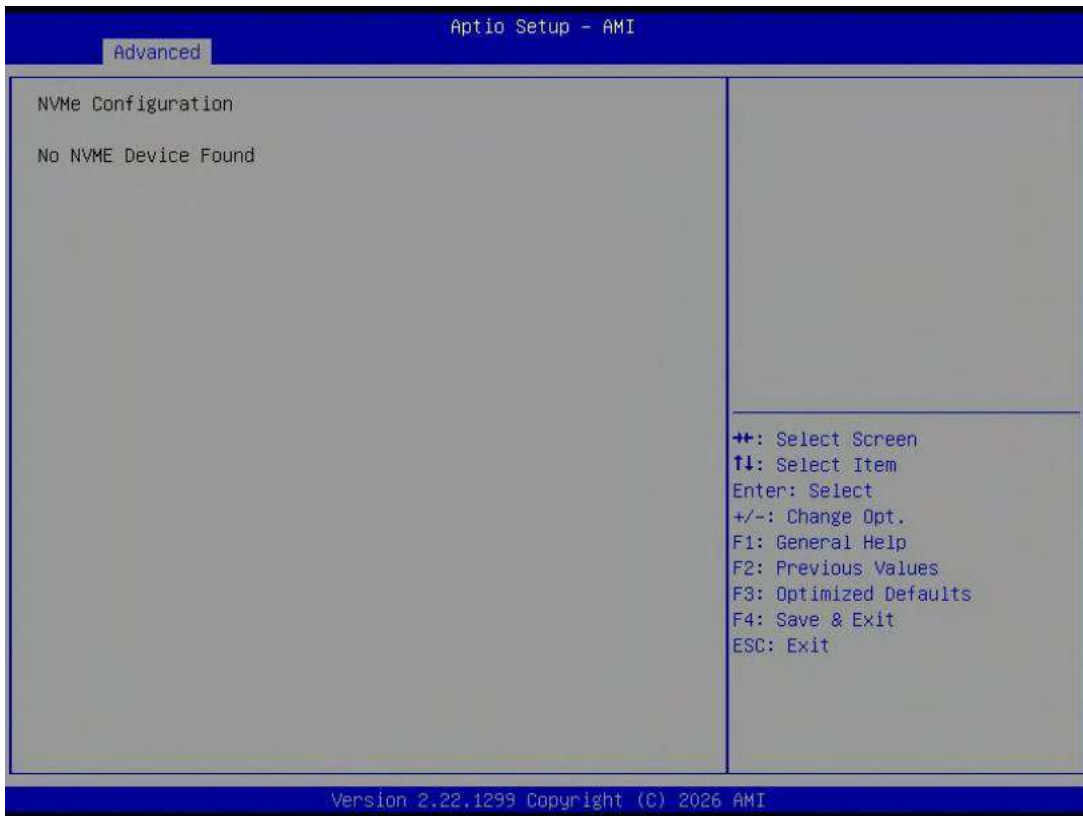


3-4-17 Network Stack Configuration

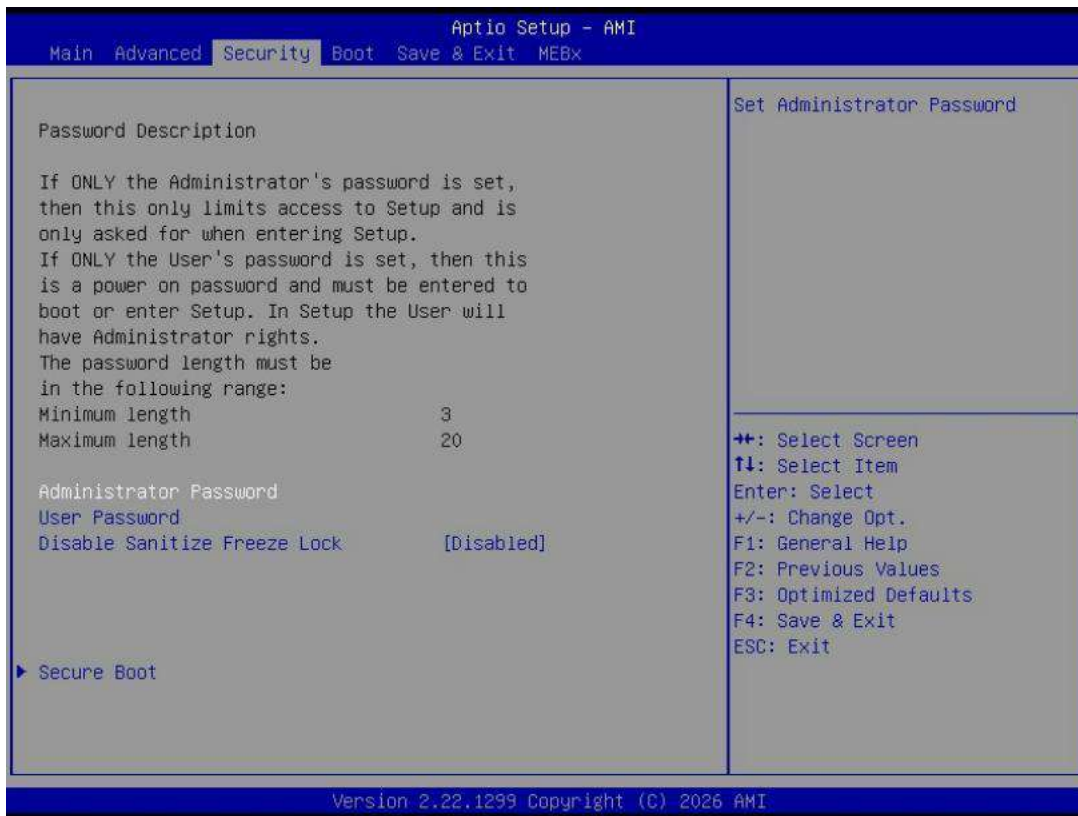




3-4-18 NVMe Configuration



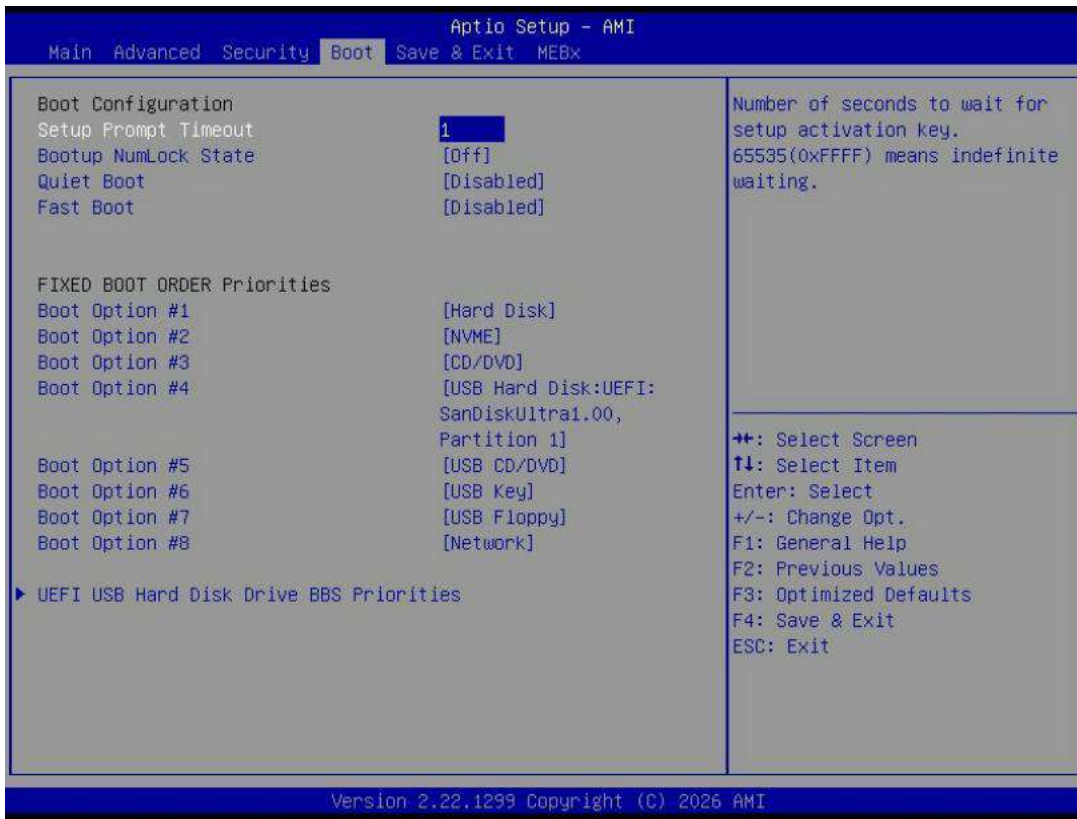
3-5 Security



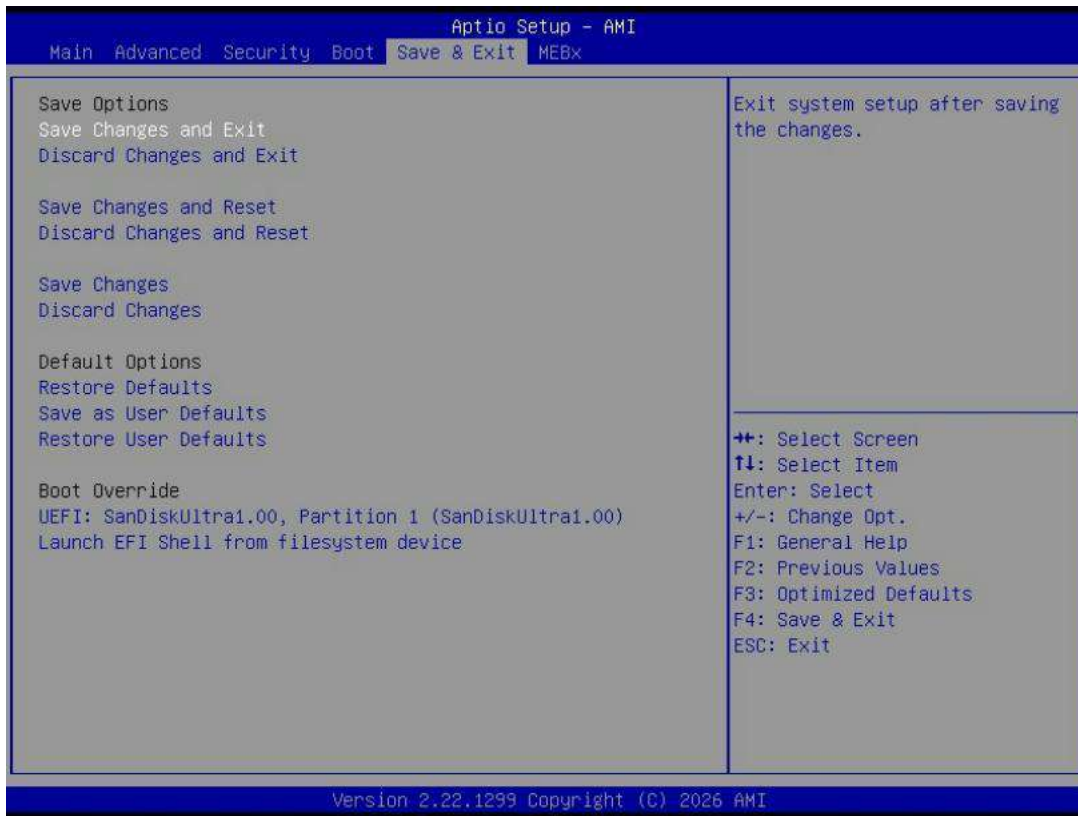
3-5-1 Secure Boot



3-6 Boot



3-7 Save & Exit



3-8 MEBx

