



— EMB-3204

3.5" 主板

USER Manual V1.2

USER MANUAL

用户手册

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安全须知

1	产品使用前，务必仔细阅读产品说明书。
2	对未准备安装的板卡，应将其保存在防静电保护袋中。
3	在从包装袋中拿板卡前，应将手先置于接地金属物体上一会儿，以释放身体及手中的静电。
4	在拿板卡时，需佩带静电保护手套，并且应该养成只触及边缘部份的习惯。
5	主板与电源连接时，请确认电源电压。
6	为避免人本被电击或产品被损坏，在每次对主板、板卡进行拔插或生新配置时须先关闭交流电源或将交流电源线从电源插座中拔掉。
7	在对板卡进行搬动前，先将交流电源线从电源插座中拔掉。
8	当您需连接或拔除任何设备前，须确定所有的电源线事先已被拔掉。
9	为避免频繁开关机对产品造成不必要的损伤,关机后,应至少等待30秒后再开机。
10	设备在使用过程时出现异常情况，请找专业人员处理。

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第一章 产品介绍

1.1 产品规格

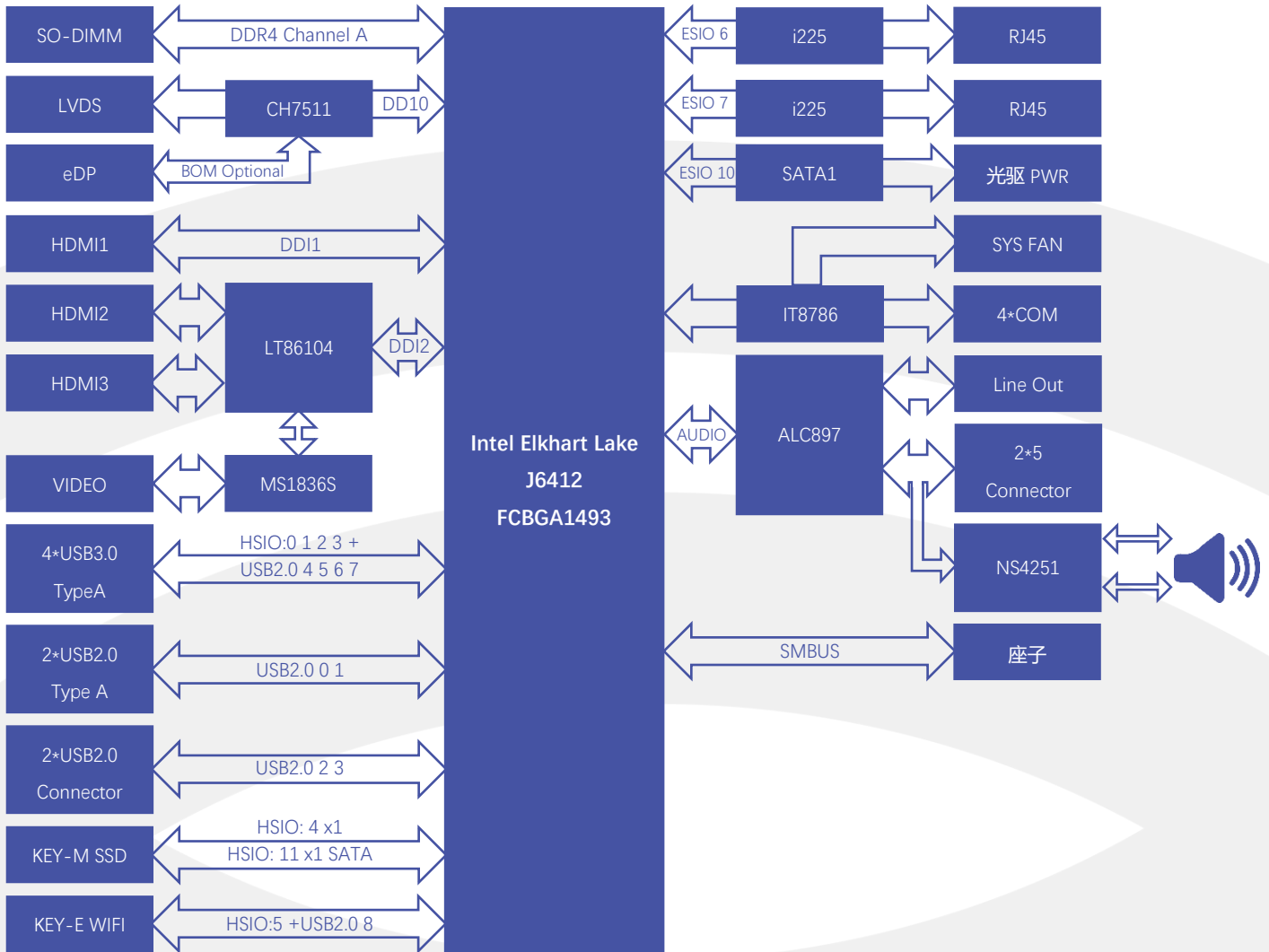
Model		EMB-3204
配置 Item	规格 Specification	描述 Describe
处理器 Processor System	CPU	Intel Elkhart Lake Celeron® Processor
	处理器 CPU	J6412
	内核数 Core Number	4
	基本主频 Base Frequency	2.0GHz
	最高主频 Max. Speed	2.6GHz
	二级缓存 L2 Cache	1.5MB
	BIOS	16Mb SPI FLASH
内存 Memory	规格 Technology	DDR4 2400MHz
	最大容量 Max. Capacity	32GB
	插槽 Socket	1*SO-DIMM
扩展插槽 Expansion Slot	M.2	1*M.2 Key-M(2242/2280) for NVMe 1*M.2 Key-E(2230) for WIFI/Bluetooth
存储 Storage	SATA	1*SATA3.0(7Pins)
显示 Graphics	最多显示 Multiple Display	3 Ports
	前面板 Front I/O	2*HDMI 2.0 1*S Video
	后面板 Rear I/O	1*HDMI 2.0
	插针 Header Pin	1*LVDS(Option eDP)
	分辨率 Resolution	HDMI2.0:3840*2160@60Hz eDP:4096*2304@60Hz LVDS:1920*1080@60Hz

USB	前面板 Front I/O	4*USB3.0 TYPE A 2*USB2.0 TYPE A
	插针 Header Pin	2*USB2.0(2.54mm_2*5Pin)
以太网 Ethernet	控制器 Controller	Integrated 10/100/1000M/2.5GB Adaption (Intel® Ethernet Controller i225-AT)
	I/O	2*RJ45
串口 COM	插针 Header Pin	4*RS232(2.0mm_2*5Pin, Pin9 Support 3.3V/5V/12V)
音频 Audio	芯片 Chipset	ALC897
	前面板 Front I/O	1*Line Out
	插针 Header Pin	1*Line Out
电源 Power Requirements	电源类型 Power Type	1*2 Pin
	电源电压 Input Voltage	9-24V
环境 Environment	工作温度 Operating Temperature	0~60°C
	存储温度 Storage Temperature	-20~60°C
	工作湿度 Operating Humidity	5~95°C(non-condensing)
物理特性 Physical	尺寸 Dimensions	146*113.6mm
	PCB 颜色 Color	Green
操作系统 OS	Microsoft	Windows 10
	Linux	Support

1.2 驱动

Windows 10: <https://pan.baidu.com/s/1HaOzywnEUzI54FQLnK2plg?pwd=zqcp>

1.3 功能框图



1.4 产品配件(选配)

Model Name	Part Number	Specification
COM 线	1.ZRT.46-6160-00-A00	COM 线 1 个杜邦 2*5(2.0)*1 个 DB9 针形/带螺柱 /L350MM
USB 转接线	1.ZRT.46-6495-00-A00	REACH ROHS USB 线 2.0 带螺丝孔 9P 转 USB2.0 两口 线 杜邦 2.0 黑色 线长 150mm 龙威信

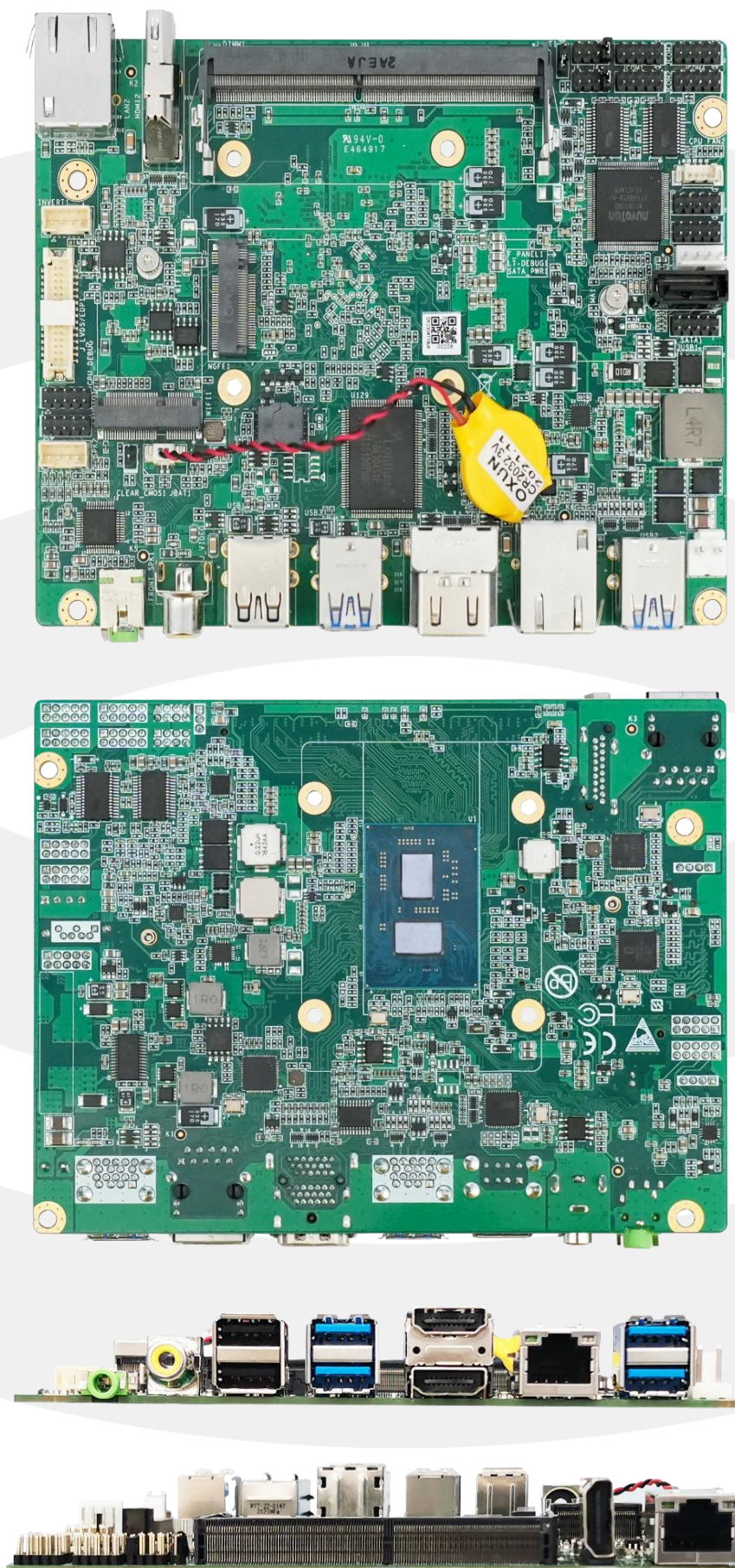
1.5 产品料号

Model Name	Part Number	Specification
EMB-3204(eDP)	8.ZRT.80-1620-03-LFF	主板 EMB-3204,VER:1.0,定制 J6412,1*SO-DIMM、2*LAN/4*COM/8*USB/1*SATA/3*HDMI+1*EDP+1*VIDEO、9~24V, DDR4 4G,M.2 512G,散热器
EMB-3204(LVDS)	8.ZRT.80-1620-04-LFF	主板 EMB-3204,VER:1.0,定制 J6412,1*SO-DIMM、2*LAN/4*COM/8*USB/1*SATA/3*HDMI+1*LVDS+1*VIDEO、9~24V, DDR4 4G,M.2 512G,散热器
	8.ZRT.80-1620-06-LFF	EMB-3204!!,VER:1.0,定制 J6412,1*SO-DIMM、2*LAN/4*COM/8*USB/1*SATA/3*HDMI+1*LVDS+1*VIDEO,9~24V,E320405B,包装
EMB-3204(J6426)	8.ZRT.80-1620-05-LFF	主板 EMB-3204,VER:1.0,定制 J6426,1*SO-DIMM、2*LAN/4*COM/8*USB/1*SATA/3*HDMI+1*LVDS+1*VIDEO、9~24V, DDR4 4G,M.2 512G,散热器

1.6 包装材积

Item	N.W(KG)	G.W(KG)	Dimension(mm)	Qty(PCS)
Bulk Packing	8	10.76	530*390*163	20

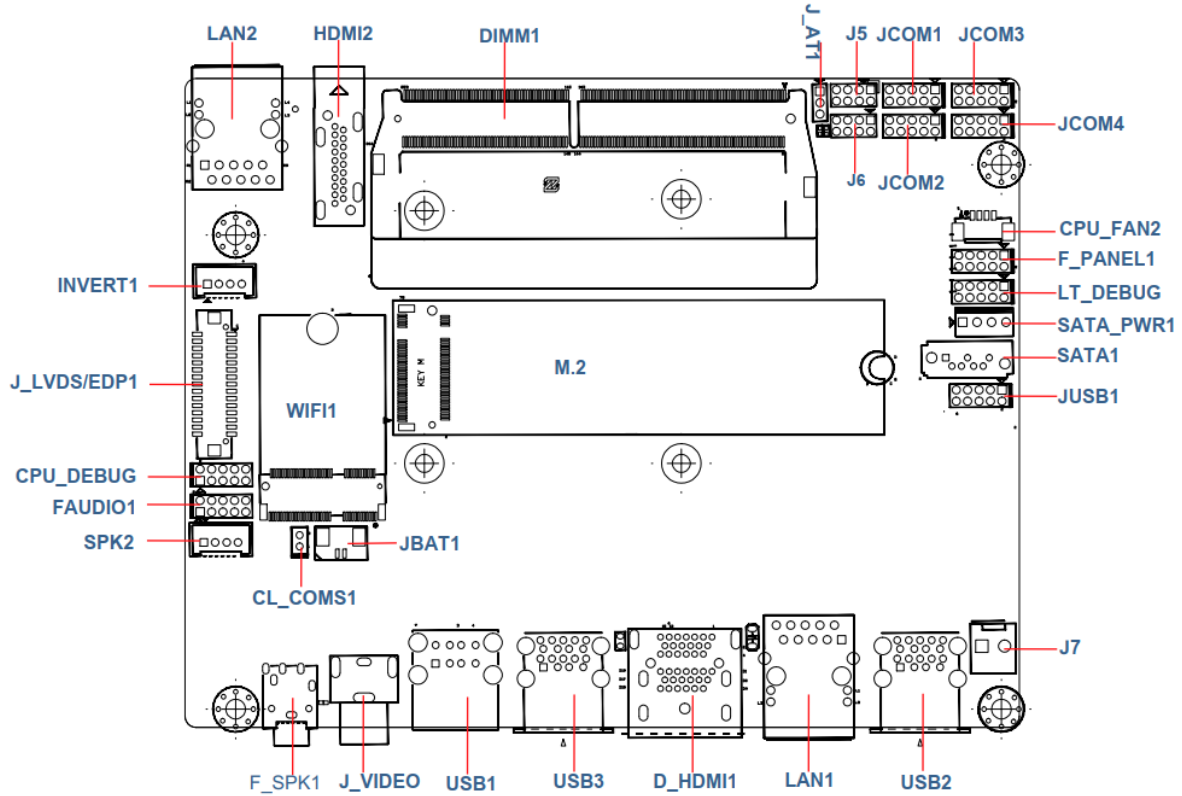
1.7 产品照片



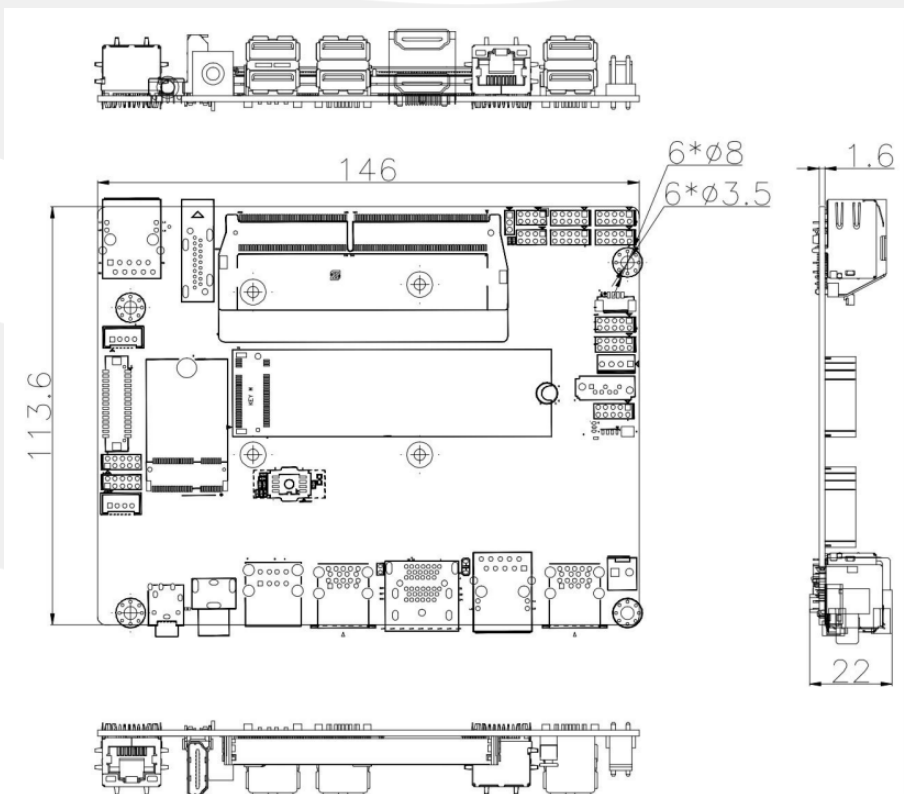
第二章 安装说明

2.1 接口/尺寸图

安装设备时, 请对照此示意图并详细阅读下面的说明, 安装组件过程中必须小心, 对于有些部件, 如果安装不正确, 设备将不能正常工作。



Mechanical Drawing (TOP Side)



2.2 硬件安装

⚠ 注意：操作时，请戴上防静电手套，因为静电有可能会损坏部件。

本主板关键元器件都是集成电路，而这些元件很容易因为遭受静电的影响而损坏。因此，请在正式安装主板之前，请先做好以下的准备：

1. 拿主板时手握板边，尽可能不触及元器件和插头插座的引脚。
2. 接触集成电路元件（如 CPU、RAM 等）时，最好戴上防静电手环/手套。
3. 在集成电路元件未按装前，需将元件放在防静电垫或防静电袋内。
4. 在确认电源的开关处于断开位置后，再插上电源插头。

2.3 跳线功能设置

在进行硬件设备安装之前，请按照您的需要对相应的跳线进行设置。

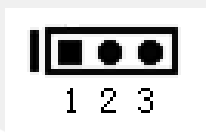
提示：如何识别跳线、接口的第 1 针脚，观察插头插座旁边的文字标记，会用“1”或加粗的线条或三角符号表示；看看背面的焊盘，方型焊盘为第 1 针脚。

2.3.1 清 CMOS 跳线设置，2.0mm_1*2pin，位置：CLEAR_CMOS1：



设置	功能
1-2 开路	正常工作状态(Default)
1-2 短路	清除 CMOS 内容，所有 BIOS 设置恢复成出厂值

2.3.2 AT/ATX 模式选择，2mm_1*3pin，位置：J_AT1：

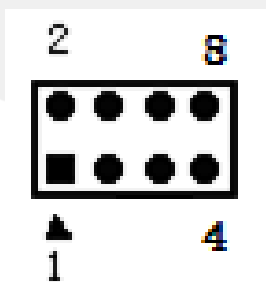


设置	功能
1-2 短路	ATX 模式
2-3 短路	AT 模式 (Default)

2.4 插针定义说明

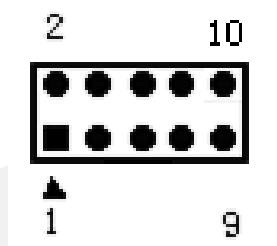
2.4.1 串行通讯口

JCOM1 JCOM2 RIN 功能选择，2.0mm_2*4pin，位置：J5 J6：



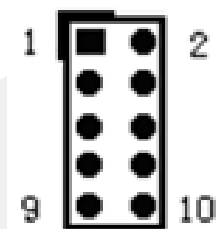
管脚	信号名称
1	COM_RIN
2	COM_RIN_C
3	COM_RIN
4	3V
5	COM_RIN
6	5V
7	COM_RIN
8	12V

RS232 串口, 2.0mm_2*5pin, 位置: JCOM1, JCOM2, JCOM3, JCOM4:



管脚	RS-232
1	DCD#
2	RXD
3	TXD
4	DTR#
5	GND
6	DSR#
7	RTS#
8	CTS#
9	RI#
10	NA

2.4.2 USB 2.0 插针接口, 2.0mm_2*5pin, 位置: JUSB1:



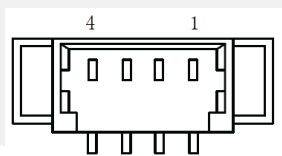
管脚	信号名称	管脚	信号名称
1	+5V	2	+5V
3	USB1_Data-	4	USB2_Data-
5	USB1_Data+	6	USB2_Data+
7	GND	8	GND
9	GND	10	GND

2.4.3 SATA 硬盘供电接口, 2.0mm_1*4pin_带框, 位置:



管脚	信号名称
1	12V
2	GND
3	GND
4	5V

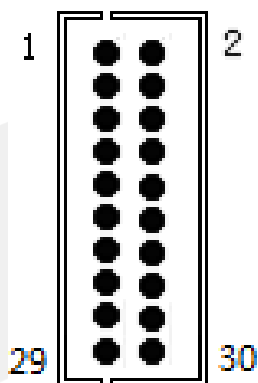
2.4.4 CPU 风扇接口, 1.25mm_1*4pin, 位置: CPU_FAN2(预留):



管脚	信号名称
1	GND
2	+12V
3	FAN_TAC
4	FAN_PWM

注: FAN_TAC: 风扇转速脉冲输出; FAN_PWM: 风扇转速 PWM 控制。

2.4.5 LVDS/EDP 显示接口, 1mm_1*30pin, 位置: J_LVDS/EDP1(BOM 选择) :



管脚	信号名称	管脚	信号名称
1	VDD(3.3V Default)	2	VDD(3.3V Default)
3	VDD(3.3V Default)	4	HPD
5	GND	6	GND
7	LVDS0_D0-/	8	LVDS0_D0+/-
9	LVDS0_D1-/	10	LVDS0_D1+/-
11	LVDS0_D2-/	12	LVDS0_D2+/-
13	GND	14	GND
15	LVDS0_CLK-/	16	LVDS0_CLK+/-
17	LVDS0_D3-	18	LVDS0_D3+
19	LVDS1_D0-	20	LVDS1_D0+
21	LVDS1_D1-	22	LVDS1_D1+
23	LVDS1_D2-	24	LVDS1_D2+
25	GND	26	GND
27	LVDS1_CLK-	28	LVDS1_CLK+
29	LVDS1_D3-/	30	LVDS1_D3+/-

VDD 供电, 电阻 BOM 3.3v/5v 可选。

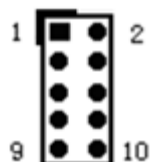
2.4.6 液晶屏背光控制, 2mm_1*6pin, 位置: INVERT1(EDP/LVDS 共用) :



管脚	信号名称
1	+12V
2	BK EN(背光使能)
3	BK PWM(亮度调节)
4	GND

背光供电, 电阻 BOM 12v/5v 可选。

2.4.7 ESPI, 2.0mm_2*5pin, 位置: CPU_DEBUG:



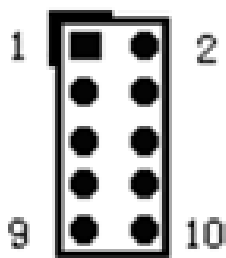
管脚	信号名称	管脚	信号名称
1	+V3.3S	2	ESPI_RESET_N
3	ESPI_CLK	4	ESPI_IO_0
5	ESPI_CS#	6	ESPI_IO_1
7	ESPI_IO_3	8	ESPI_IO_2
9	GND	10	NC

2.4.8 DC 供电接口, 位置: J7:



管脚	信号名称
1	GND
2	DC_IN

2.4.9 F_PANEL 兼容 SMBUS 接口, 2.0mm_2*5pin, 位置: F_PANEL1:



管脚	信号名称	管脚	信号名称
1	HDD LED+	2	PW LED+
3	HDD LED-	4	PW LED-
5	GND	6	PW Button
7	RESET	8	GND
9	SMB_CLK	10	SMB_DATA

2.4.10 功放接口, 2.0mm_1*4pin_带框, 位置: SPK2:

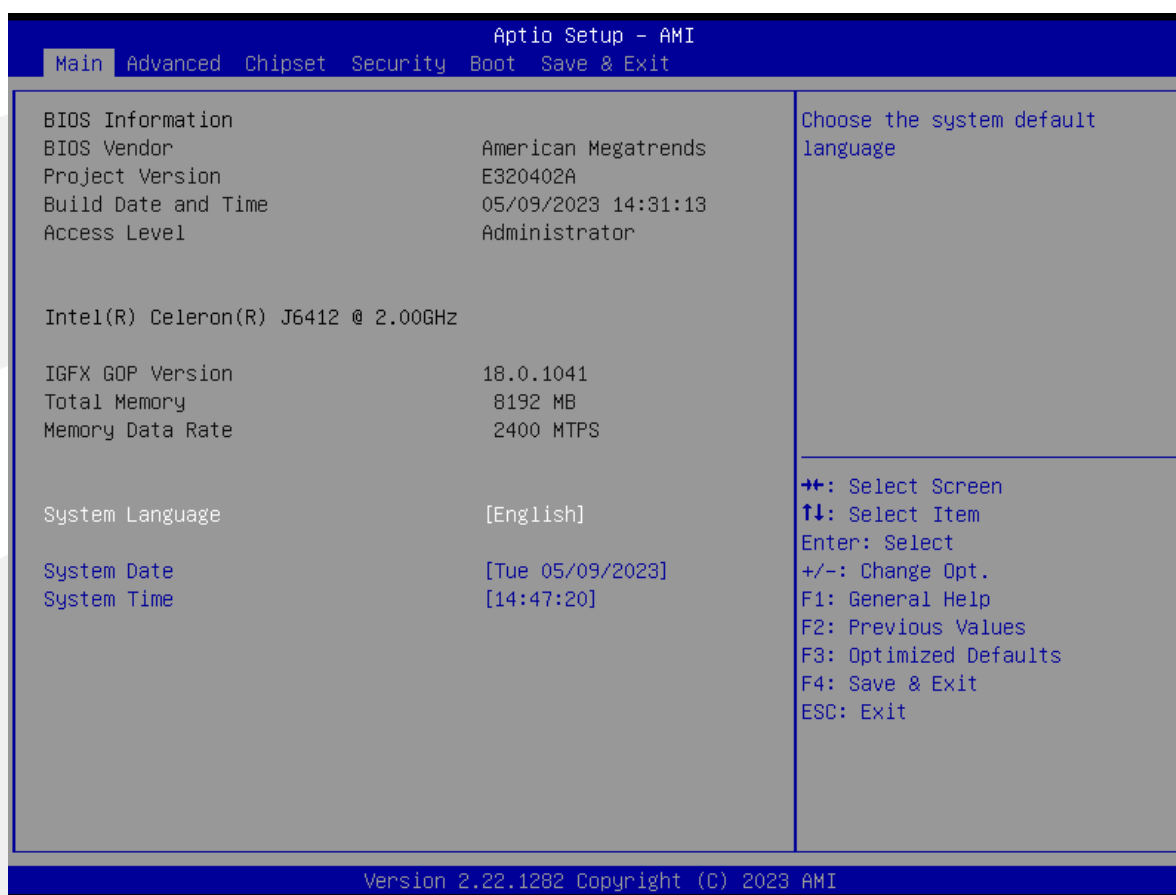


管脚	信号名称
1	AMP_L+
2	AMP_L-
3	AMP_R-
4	AMP_R+

第三章 BIOS 程序设置

3.1 Main Screen

The Main screen is the first screen that is displayed when the BIOS Setup is entered.

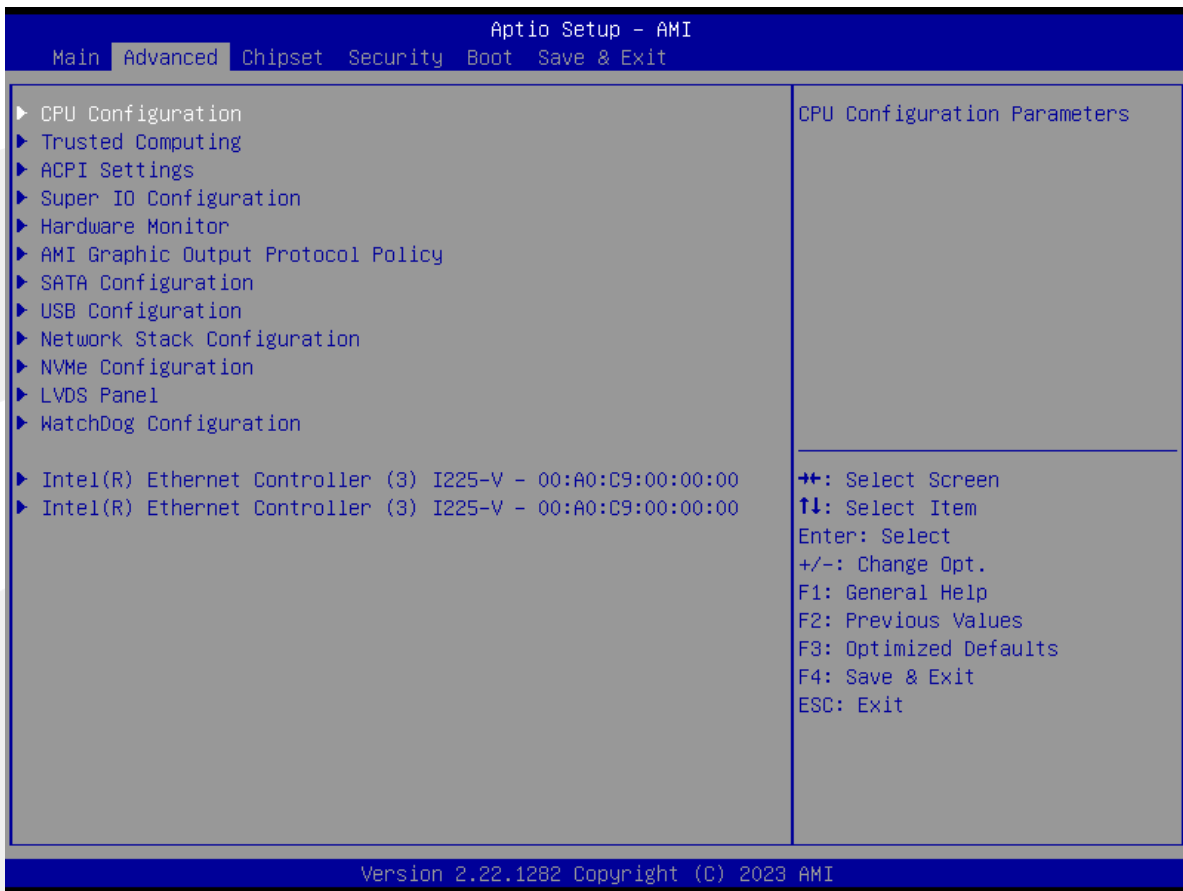


Setup Item	Options	Help Text	Comments
BIOS Information			
BIOS Vendor			Displays BIOS vendor.
Project Version			Displays the current BIOS version: Format: AAAABBC AAAAA = Project name BB = BIOS revision C = Customer number
Build Date and Time			Displays the current BIOS build date.
Access Level			Displays password level that setup is running in: Administrator or User. With no passwords set, Administrator is the default mode.

Setup Item	Options	Help Text	Comments
Processor Information			
CPU XXXXX			Displays the CPU BrandString installed in the system.
Memory Information			
IGFX GOP Version			
Total Memory			Displays the total physical memory installed in the system, MB Unit.
Memory Data Rate			
System Language	English	Choose the system default language.	
System Date	[Day of week MM/DD/YYYY]	Set and display the Date.	
System Time	[HH:MM:SS]	Set and display the Time.	

3.2 Advanced Screen

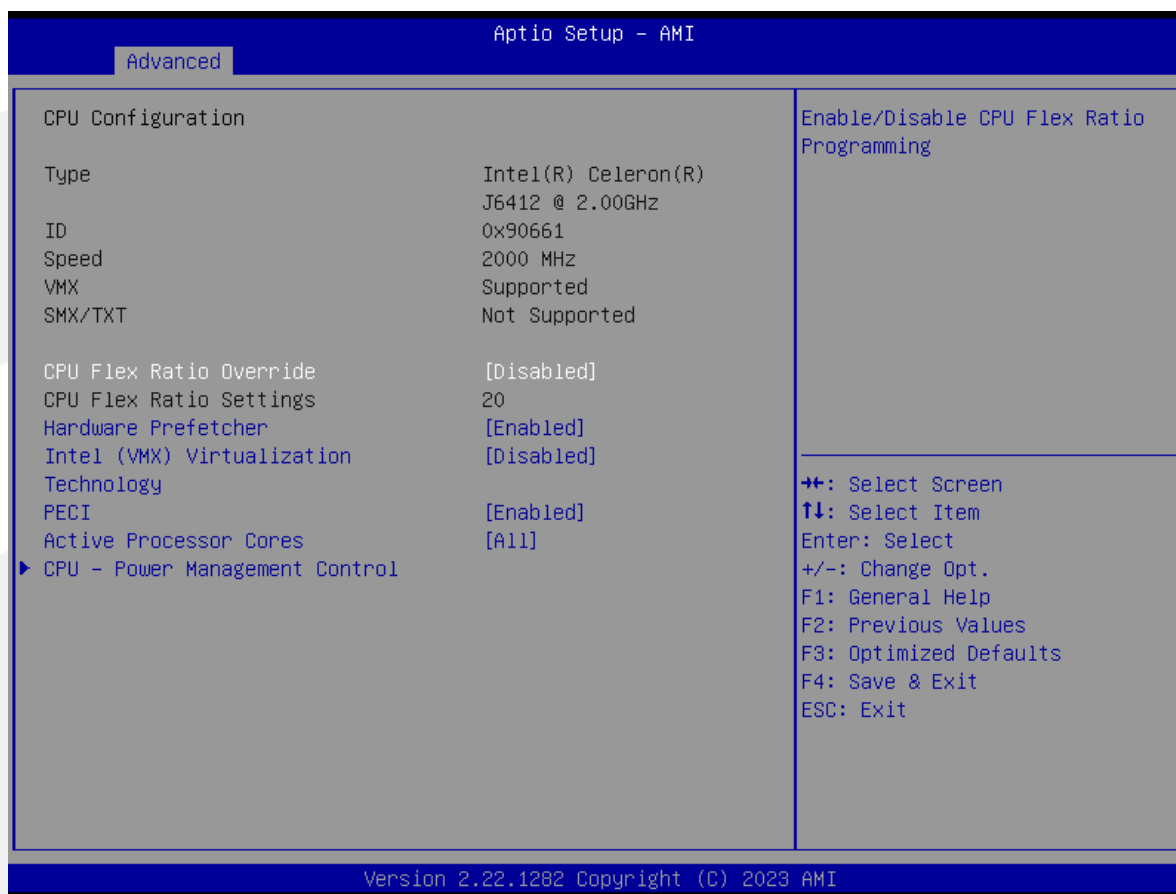
The Advanced screen provides an access point to configure several options. On this screen, the user selects the option that is to be configured.

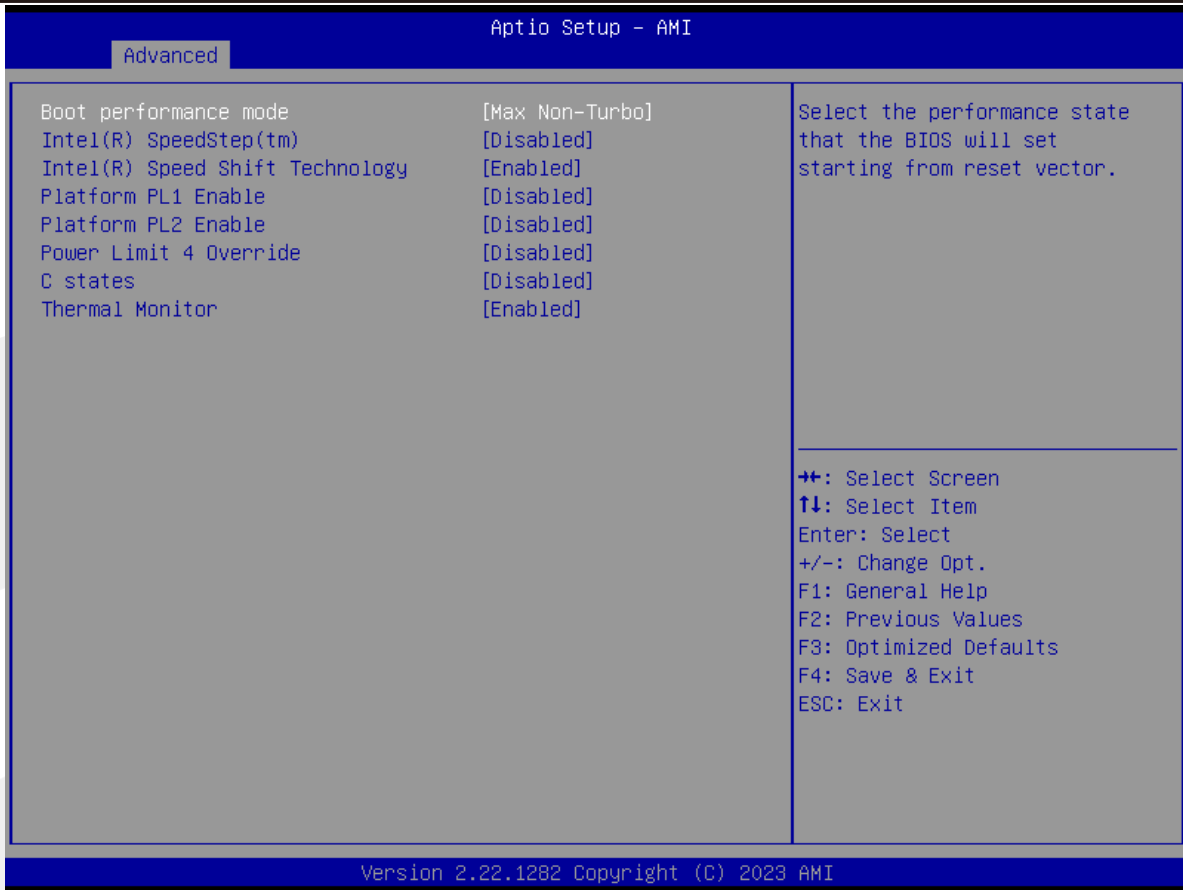


Setup Item	Options	Help Text	Comments
CPU Configuration		CPU Configuration Parameters.	
Trusted Computing		Trusted Computing Settings	
ACPI Settings		System ACPI Parameters.	
Super IO Configuration		System Super IO chip Parameters.	
Hardware Monitor		Monitor hardware stats.	
AMI Graphic Output Protocol Policy		User Select Monitor Output by Graphic Output Protocol.	
SATA Configuration		SATA Devices Configuration.	
USB Configuration		USB Configuration Parameters.	
Network Stack Configuration		Network Stack Settings.	
NVMe Configuration		NVMe Device Options Settings.	
LVDS Panel		Panel Timing Parameters in 16 sets of configuration.	
Watchdog configuration		Set System WatchDog Parameters.	

3.2.1 CPU Configuration Screen

The CPU Configuration screen allows the user to view the processor information, and to enable or disable processor options. To access this screen from the Main screen, choose **Advanced > CPU Configuration**.





Setup Item	Options	Help Text	Comments
CPU Configuration			
Type			
ID			
Speed	Current frequency of the processor	Speed.	Current frequency of the processor.
VMX			
SMX/TXT			
CPU Flex Ratio Override	Disabled		
CPU Flex Radio Settings	20		
Hardware Prefetcher	Enabled Disabled	To turn on/off the MLC streamer prefetcher.	
Intel Virtualization Technology	Disabled Enabled	When enabled, a VMM can utilize the additional hardware capabilities provided by Vander pool Technology.	
PECI	Enabled		
Active Processor Cores	All 1 2 3	Number of cores to enable in each processor package.	

Setup Item	Options	Help Text	Comments
CPU Power Management control			
Boot performance mode	Max Non-Turbo Max battery Turbo Performance	Select the performance state that the BIOS will set starting from reset vector.	
Intel® SpeedStep™	Enabled Disabled	Allows more than two frequency ranges to be supported.	
Intel® Speed Shift Technology	Enabled		
Platform PL1 Enable	Disabled		
Platform PL2 Enable	Disabled		
Power Limit 4 Override	Disabled		
C states	Disabled		
Thermal Monitor	Enabled		

3.2.2 Trusted Computing

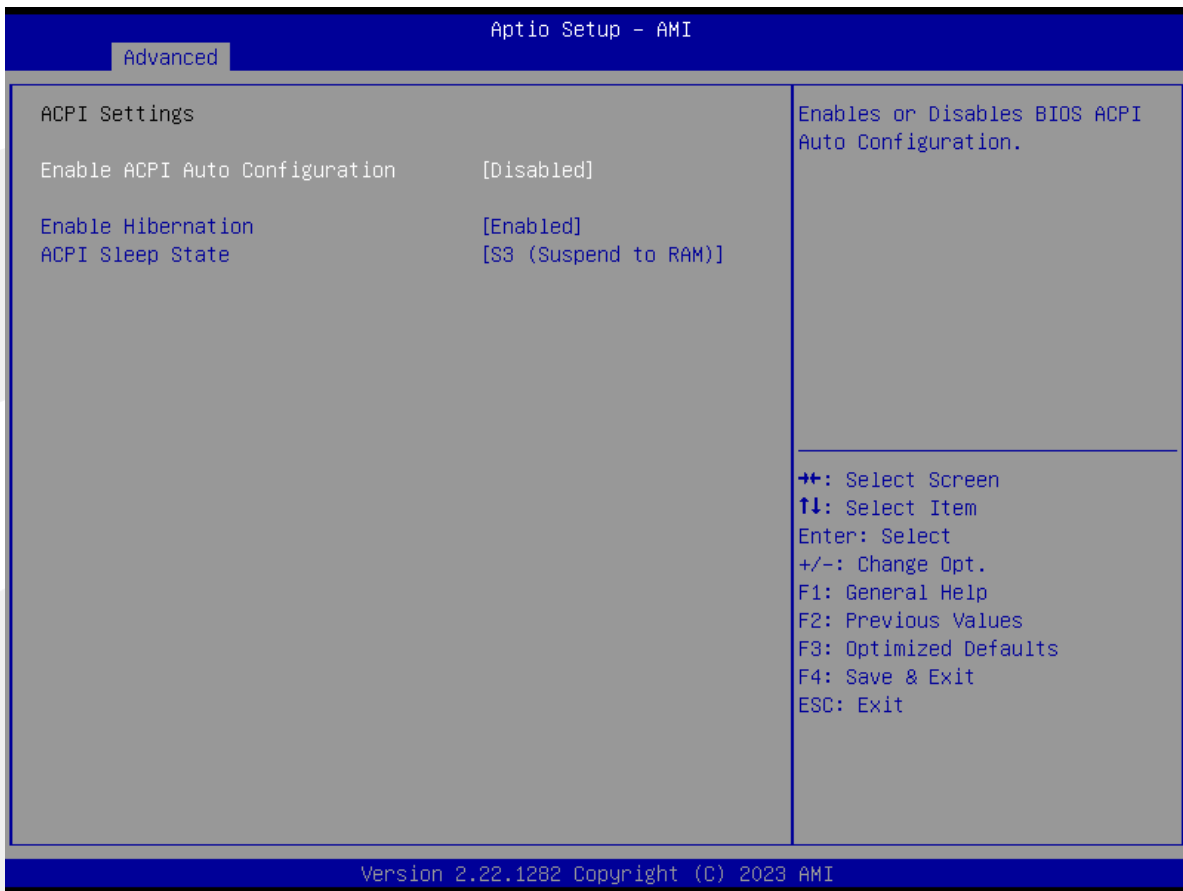
To access this screen from the Main screen, choose **Advanced > Trusted Computing**.



Setup Item	Options	Help Text	Comments
Trusted Computing			
Security Device Support	Enable Disable	Enable/Disable Security Device. NOTE: Your Computer will reboot during restart in order to change State of the Device.	
SHA256 PCR Bank	Enabled		
SHA384 PCR Bank	Disabled		
SM3_256 PCR Bank	Disabled		
Pending operation	None		
Platform Hierarchy	Enabled		
Physical Presence Spec Version	1.3		
TPM 2.0 InterfaceType	CRB		
Device Select	Auto		
Disable Block Sid	Disabled		

3.2.3 ACPI Settings Screen

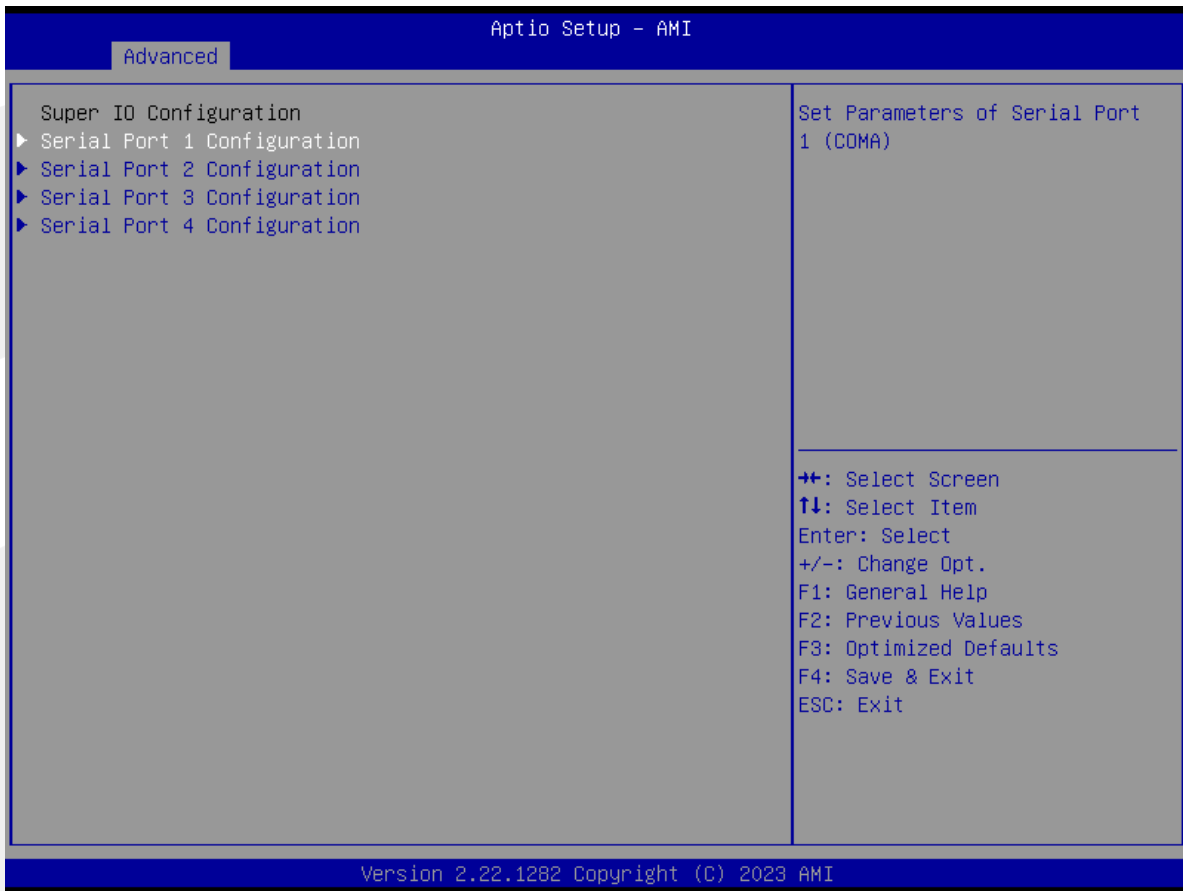
The ACPI Settings screen allows the user to set the system ACPI parameters. To access this screen from the Main screen, choose **Advanced > ACPI Settings**.



Setup Item	Options	Help Text	Comments
ACPI Settings			
Enable ACPI Auto Configuration	Disabled		
Enable Hibernation	Enabled		
ACPI Sleep State	Suspend Disabled S3 (Suspend to RAM)	Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.	Sleep supported optionally.

3.2.4 Super IO Configuration

The Super IO Configuration screen allows the user to view the super IO information, and to enable or disable super IO options. To access this screen from the Advanced screen, choose **Advanced > IO Configuration**.



Setup Item	Options	Help Text	Comments
Super IO Configuration			
Serial Port 1 Configuration			Set Parameters of Serial Port 1 (COMA).
Serial Port 2 Configuration			Set Parameters of Serial Port 2 (COMB).
Serial Port 3 Configuration			Set Parameters of Serial Port 3 (COMC).
Serial Port 4 Configuration			Set Parameters of Serial Port 4 (COMD).

3.2.4.1 Serial PortX Configuration

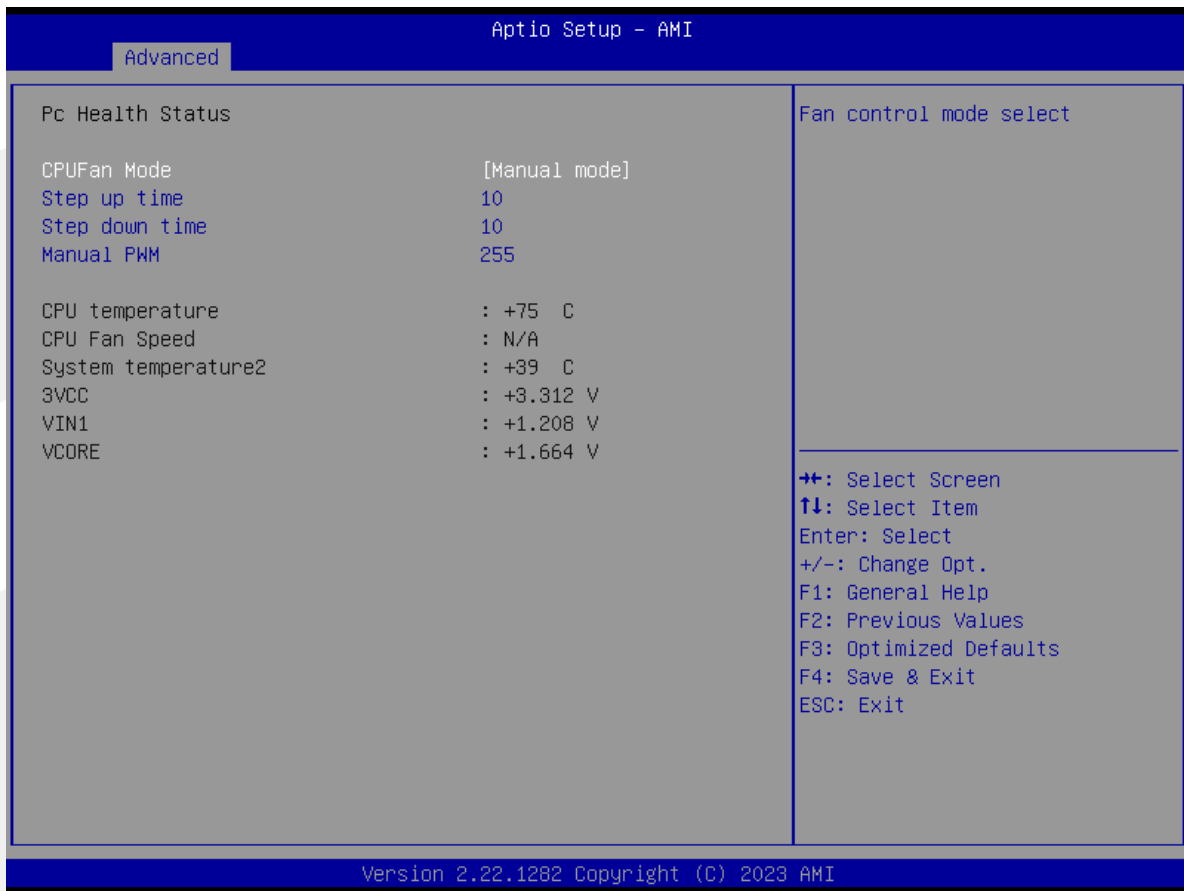
The Super IO Configuration screen allows the user to view the super IO information, and to enable or disable serial port options. To access this screen from the Advanced screen, choose **Advanced-> IO Configuration->Serial PortX Configuration**.



Setup Item	Options	Help Text	Comments
Serial Port 1 Configuration			
Serial Port	Enabled Disabled	Enable or Disable Serial Port (COM).	
Device Settings			

3.2.5 Hardware Monitor

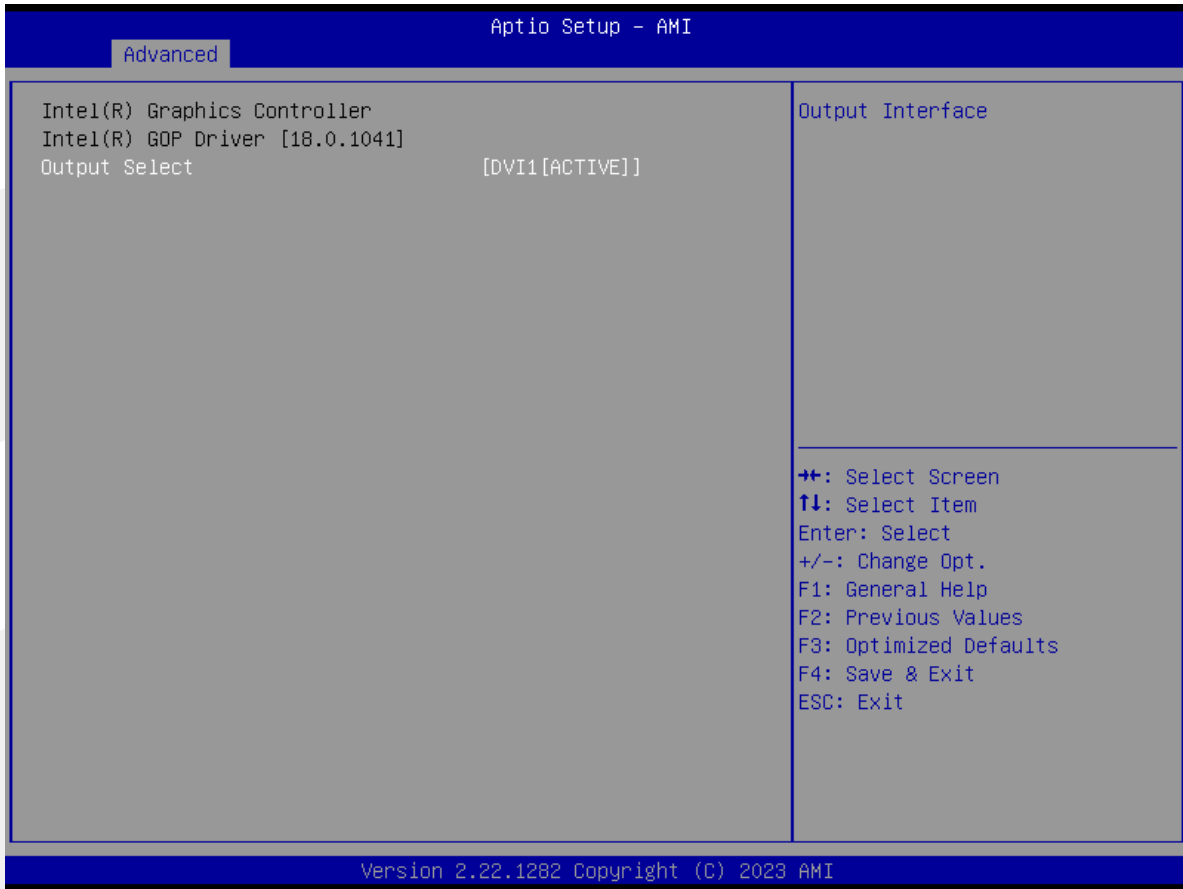
The hardware monitor screen allows the user to view the hardware information. To access this screen from the Advanced screen, choose **Advanced-> Hardware Monitor**.



Setup Item	Options	Help Text	Comments
Hardware Monitor			
PC Health Status			
CPUFan Mode	Automatic mode Manual mode	Fan control mode select.	When Manual mode selected, Manual PWM Setting shows to set FAN PWM Duty.
Step up Time	10		
Step down time	10		
Manual PWM	255		
CPU temperature		Shows Current CPU temperature.	NOTE1: Sometimes not the actual temperature value, just indicates temperature tolerance limitation.
CPU Fan Speed			HW Information.
System temperature2			
3VCC			
VIN1			
VCORE			

3.2.6 AMI Graphic Output Protocol Policy

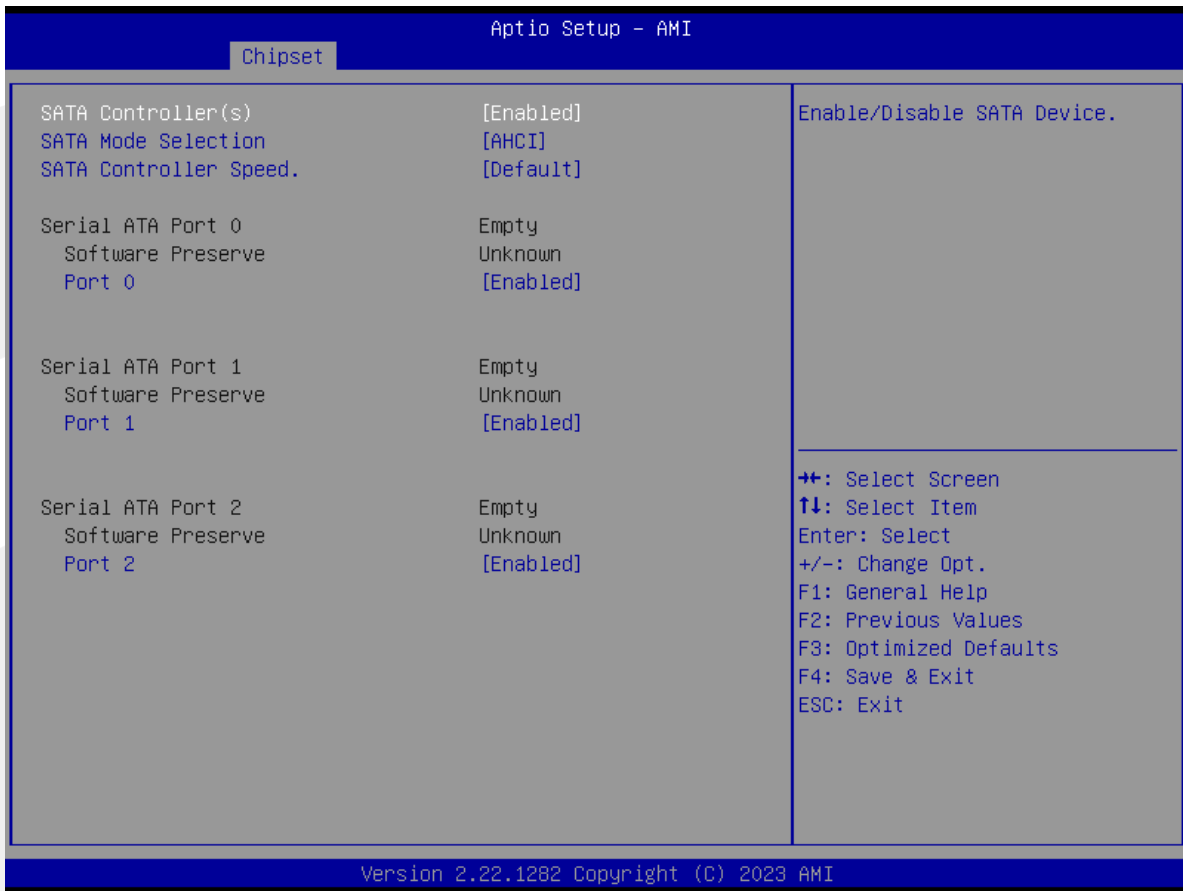
To access this screen from the Main screen, choose **Advanced > AMI Graphic Output Protocol Policy**.



Setup Item	Options	Help Text	Comments
AMI Graphic Output Protocol Policy			
Intel® Graphics Controller			
Intel® GOP Driver			
Output Select	DVI1[Active]	Output Interface.	

3.2.7 SATA Configuration

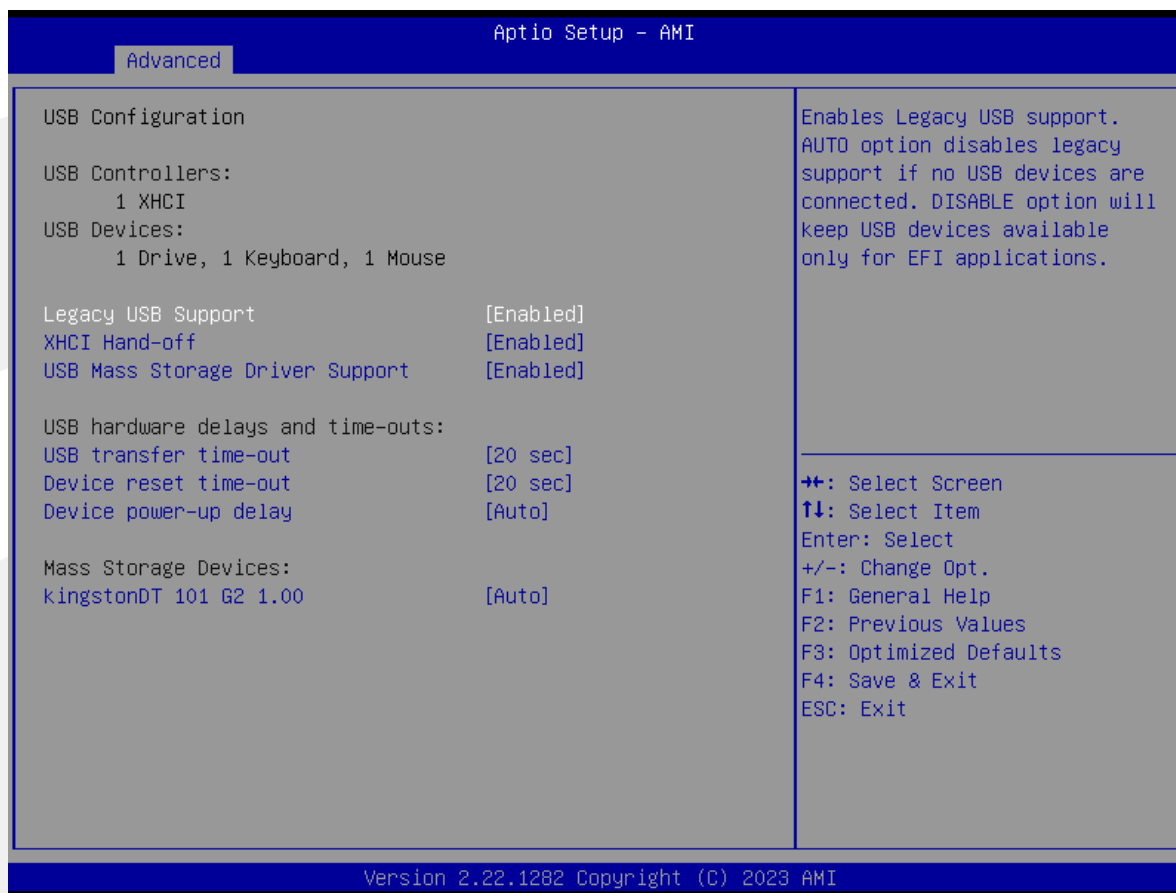
The SATA Configuration screen allows the user to view the SATA Controller information, and to enable or disable SATA Controller options. To access this screen from the Main screen, choose **Advanced > SATA Configuration**.



Setup Item	Options	Help Text	Comments
SATA Configuration			
SATA Controller(s)	Enabled Disabled	Enable / Disable SATA Device.	
SATA Mode Selection	AHCI Mode	Select AHCI.	
SATA Controller Speed	Default		
Serial ATA Port 0			Show HDD information connected.
Serial ATA Port 1			
Serial ATA Port 2			

3.2.8 USB Configuration

The USB Configuration screen allows the user to view the USB Configuration information, and to enable or disable options. To access this screen from the Main screen, choose **Advanced > USB Configuration**.

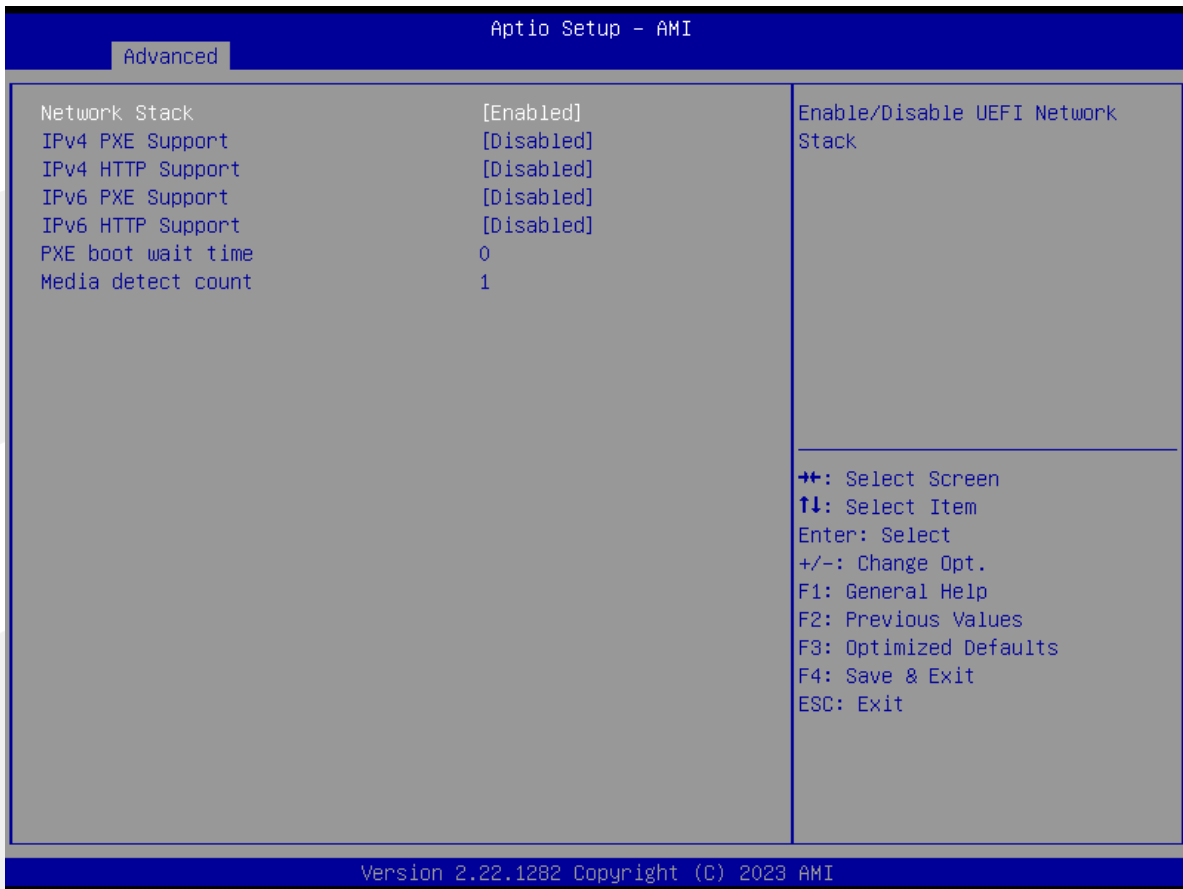


Setup Item	Options	Help Text	Comments
USB Configuration			
Legacy USB Support	Enabled Disabled	Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.	
XHCI Hand-off	Enabled Disabled	This is a workaround for OSES without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.	
USB MASS Storage Driver Support	Enabled Disabled	Enable/Disable USB Mass Storage Driver Support.	
USB hardware delays and time-outs:			
USB transfer time-out	1 sec 5 sec 10 sec 20 sec	The time-out value for Control, Bulk, and Interrupt transfers.	

Setup Item	Options	Help Text	Comments
Device reset time-out	1 sec 5 sec 10 sec 20 sec	USB mass storage device Start Unit command time-out.	
Device power-up delay	Auto Manual	Maximum time the device will take before it properly reports itself to the Host Controller. ' auto' uses default value: for a Root port it is 100ms,for a Hub port the delay is taken from Hub descriptor.	

3.2.9 Network Stack Configuration

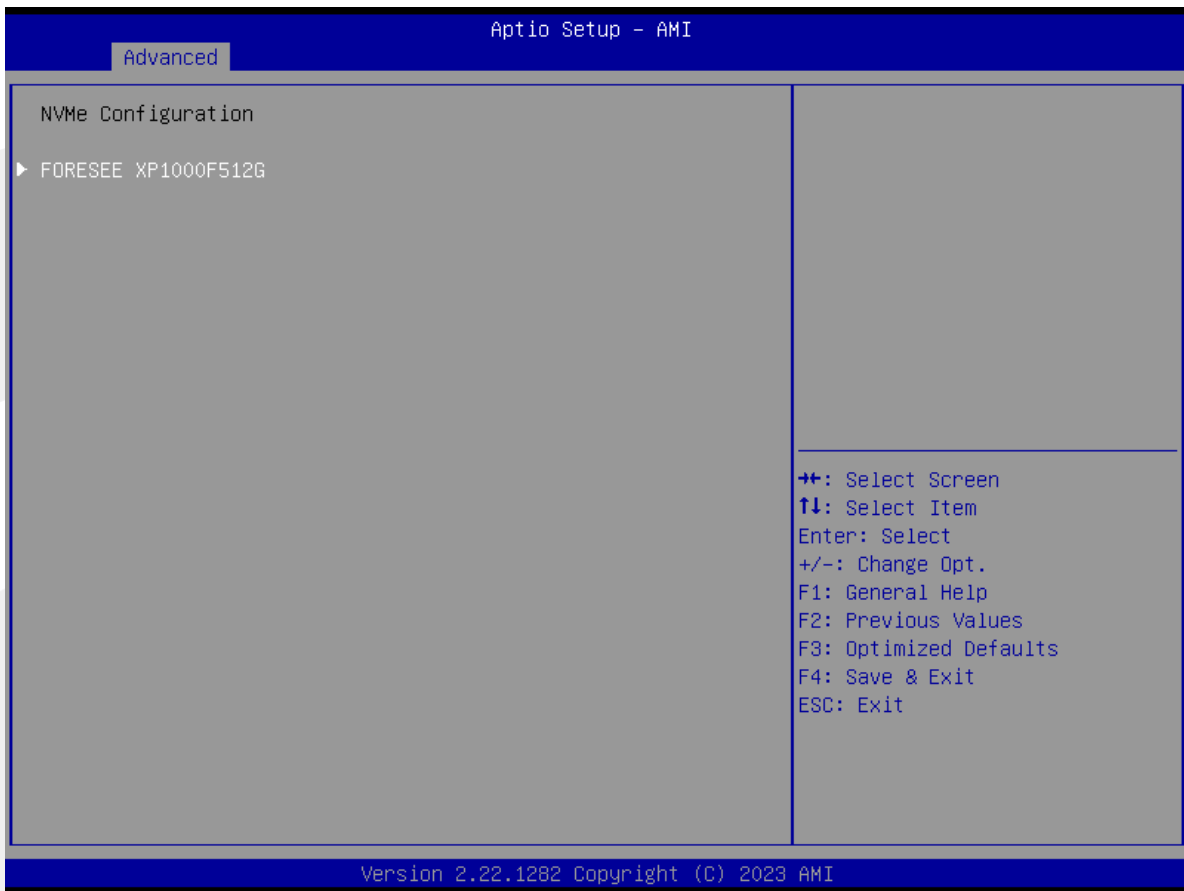
To access this screen from the Main screen, choose **Advanced > Network Stack Configuration**.



Setup Item	Options	Help Text	Comments
Network Stack Configuration			
Network Stack	Disabled Enabled		Enable/Disable UEFI Network Stack.
IPv4 PXE Support	Disabled Enabled		Enable/Disable IPv4 PXE boot support.
IPv4 HTTP Support	Disabled Enabled		Enable/Disable IPv4 HTTP boot support.
IPv6 PXE Support	Disabled Enabled		Enable/Disable IPv6 PXE boot support.
IPv6 HTTP Support	Disabled Enabled		Enable/Disable IPv6 HTTP boot support.
PXE boot wait time	0		
Media detect count	1		

3.2.10 NVMe Configuration

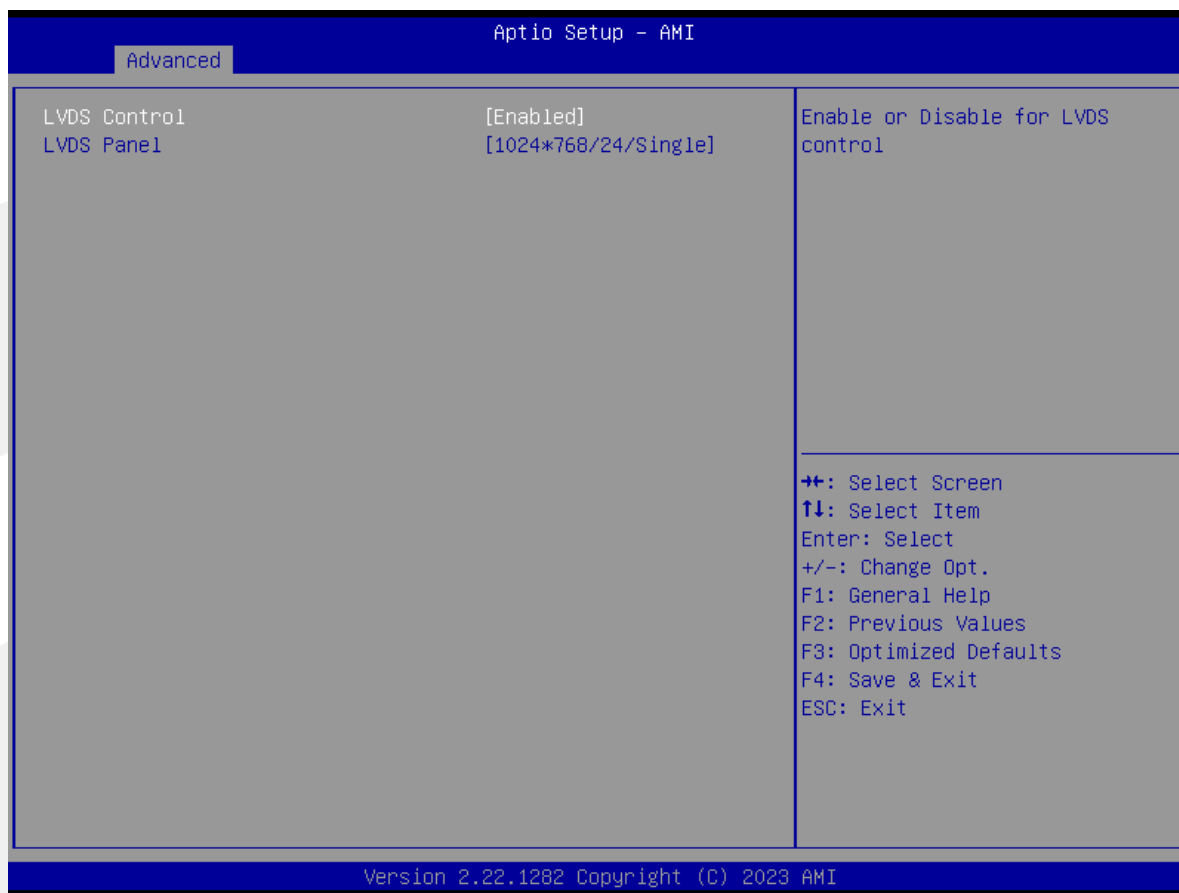
The NVMe Configuration screen allows the user to view the NVMe device information. To access this screen from the Main screen, choose **Advanced > NVMe Configuration**.



Setup Item	Options	Help Text	Comments
NVMe Configuration			
Controller 0			Show NVMe device information connected.

3.2.11 LVDS Panel

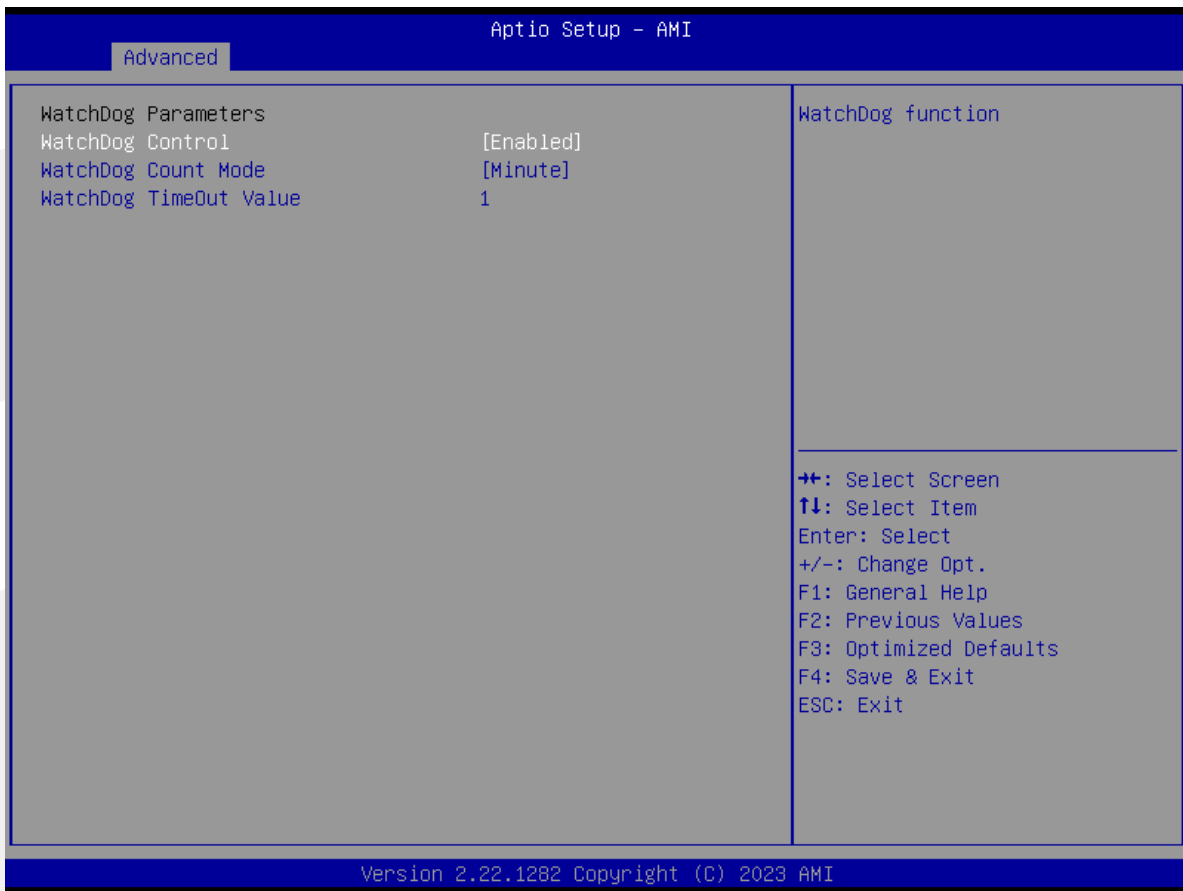
To access this screen from the Main screen, choose **Advanced > LVDS Panel**.



Setup Item	Options	Help Text	Comments
LVDS Panel			
LVDS Control	Disabled Enabled		Enable or Disable for LVDS control.
LVDS Panel	1024*768/24/Single		

3.2.12 Watchdog Configuration

The Watchdog Configuration screen allows the user to Set System WatchDog Parameters. To access this screen from the Main screen, choose **Advanced > Watchdog Configuration**.



Setup Item	Options	Help Text	Comments
Watchdog Parameters			
WatchDog Control	Disabled Enabled		WatchDog function.
WatchDog Count Mode	Minute Second		WatchDog Count Mode Selection.
WatchDog TimeOut Value	1		Fill WatchDog TimeOut (0~255),0 means function disabled.

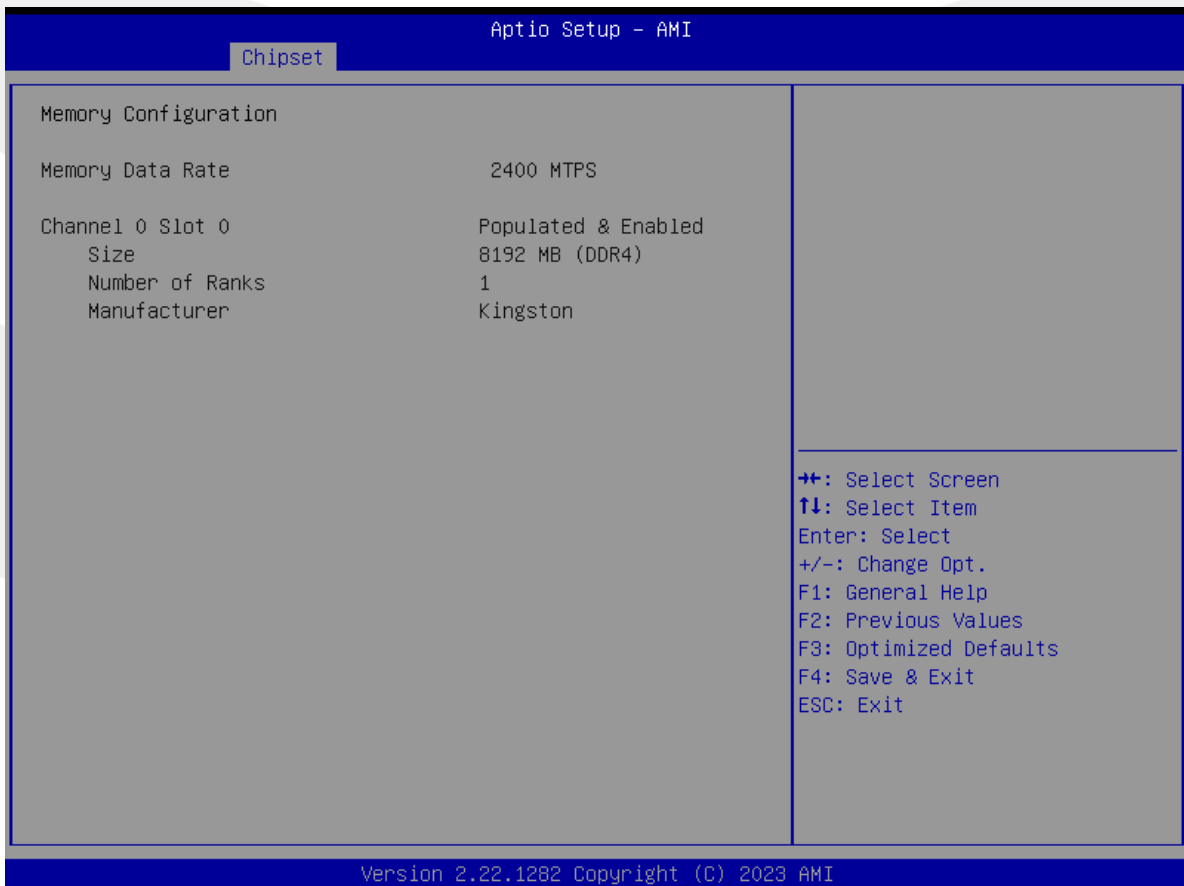
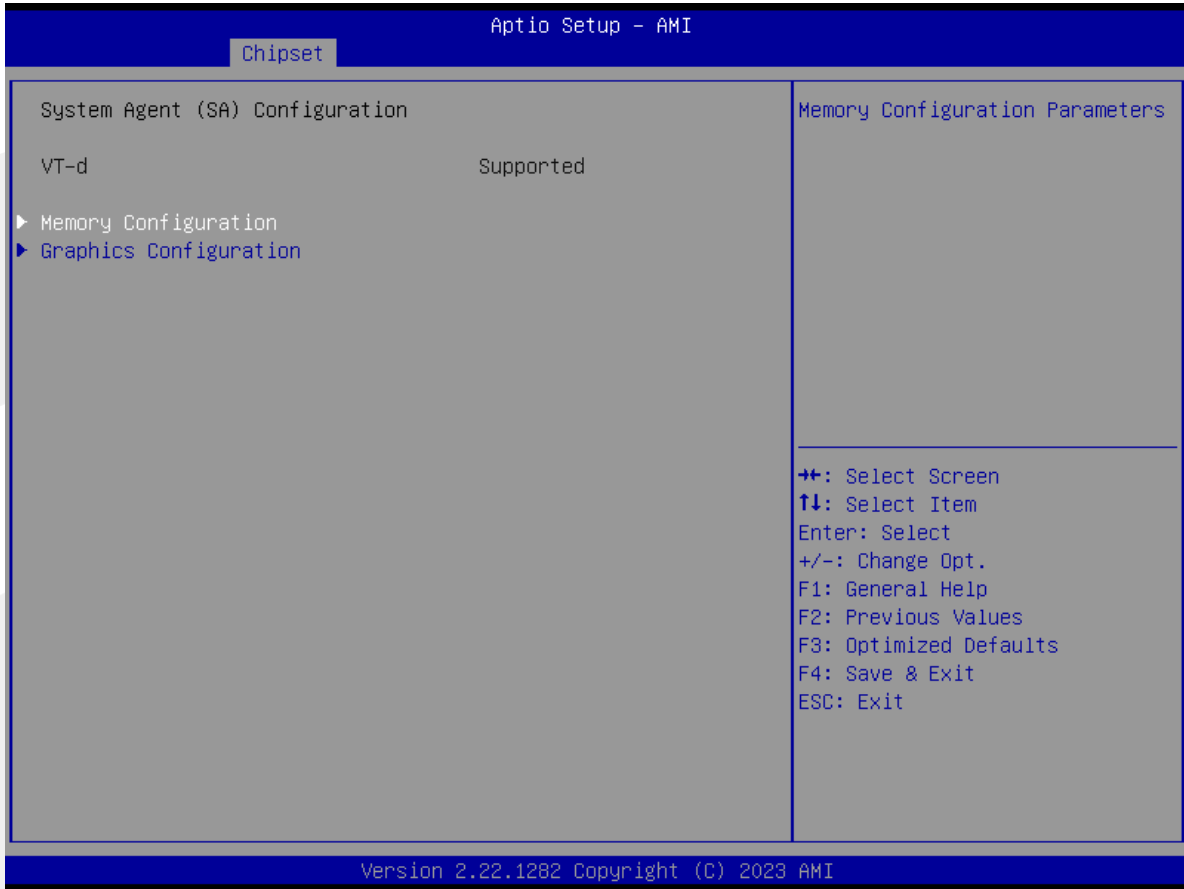
3.3 Chipset Screen

The Chipset screen provides an access point to configure North Bridge and South Bridge. To access this screen from the Main screen, press the right arrow until the Chipset screen is chosen.

Setup Item	Options	Help Text	Comments
Chipset Screen			
North Bridge		North Bridge Parameters.	North Bridge.
South Bridge		South Bridge Parameters.	South Bridge.

3.3.1 System Agent (SA) Configuration

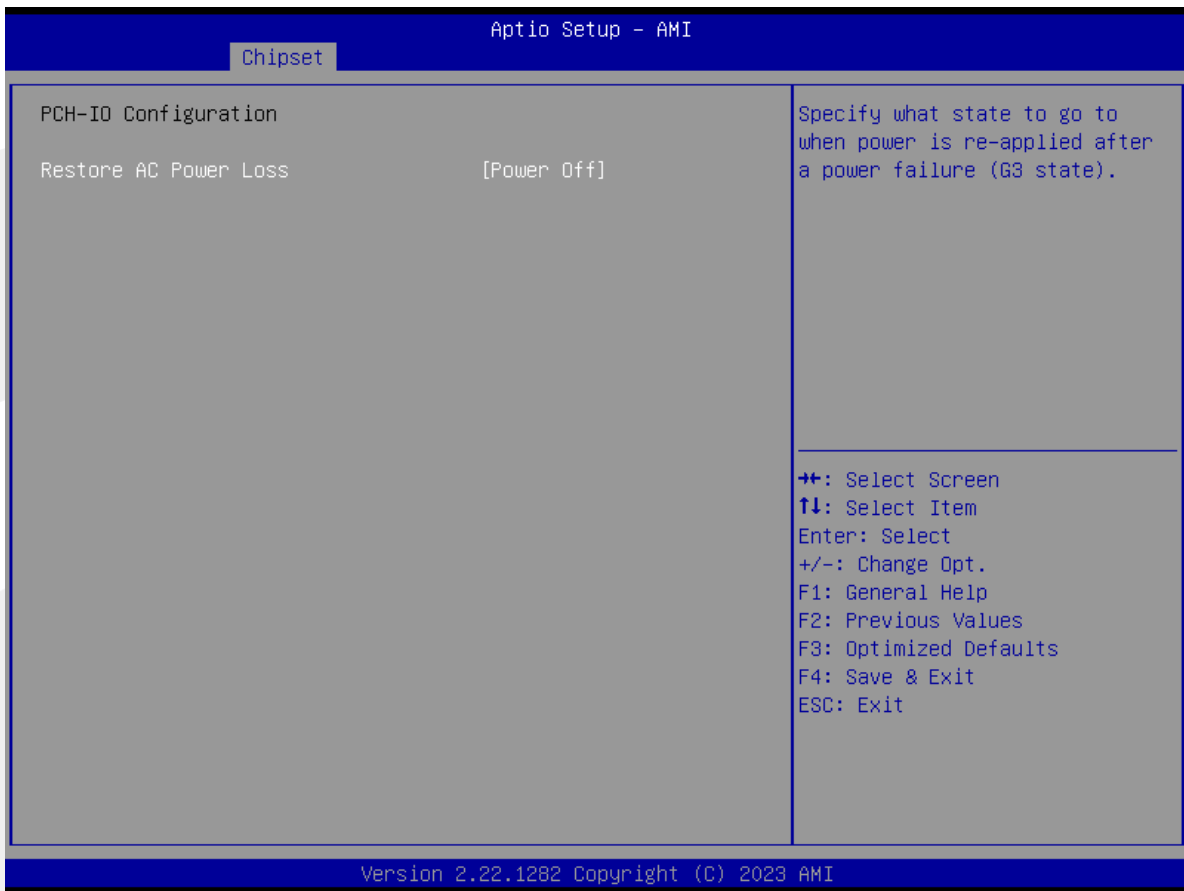
The North Bridge Screen allows user to set NB chipset configuration. To access this screen, form the Main screen, choose **Chipset > System Agent (SA) Configuration**.



Setup Item	Options	Help Text	Comments
System Agent (SA) Configuration			
Memory Configuration			
Memory Information		Show Memory information.	
Graphics Configuration			

3.3.2 PCH-IO Configuration

The South Bridge Screen allows user to set SB chipset configuration. To access this screen form the Main screen, choose **Chipset > PCH-IO Configuration**.



Setup Item	Options	Help Text	Comments
PCH-IO Configuration			
Restore AC Power Loss	Power Off Power on	Select AC power state when power is re-applied after a power failure.	

3.4 Security

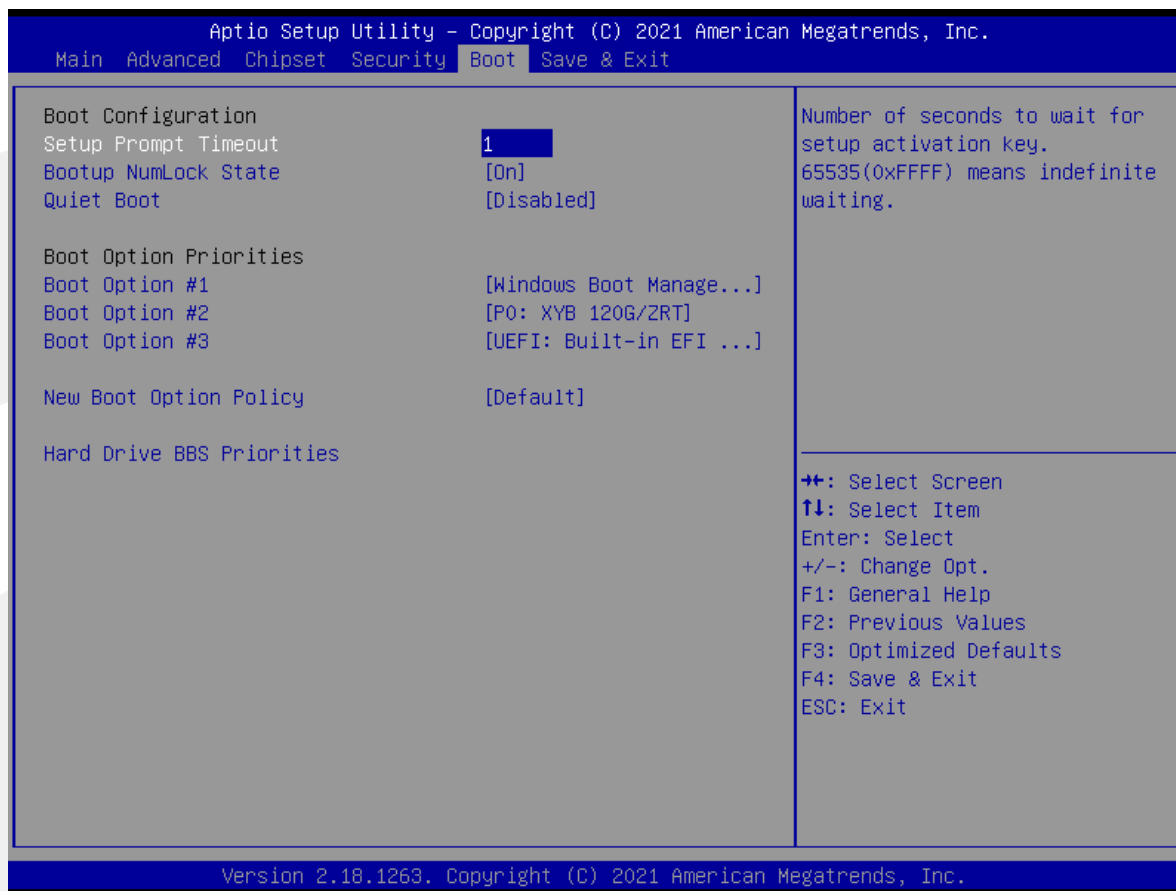
To access this screen form the Main screen, choose **Security**.



Setup Item	Options	Help Text	Comments
Security			
Administrator Password		Set Administrator Password.	
User Password		Set User Password.	

3.4.1 Boot Screen

The Boot screen displays any bootable media encountered during POST, and allows the user to configure desired boot device. To access this screen from the Main screen, choose **Boot**.

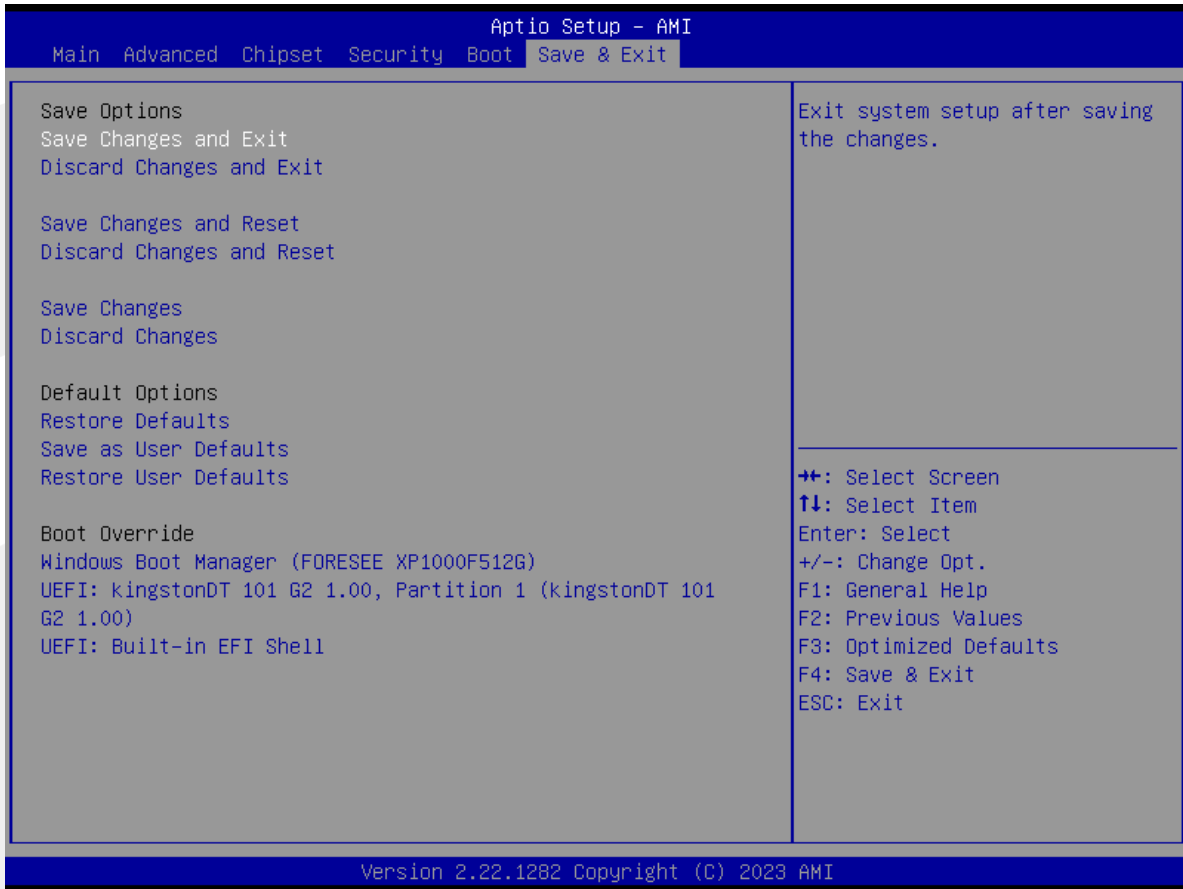


Setup Item	Options	Help Text	Comments
Boot Configuration			
Setup Prompt Timeout	1~65535	Number of seconds to wait for setup activation key.65535(0xFFFF) means indefinite waiting.	
Bootup NumLock State	On off	Select the keyboard Number state.	
Quiet Boot	Disabled Enabled	Enables or disables Quiet Boot option.	
Boot Option Priorities			
Boot Option #1		Sets the system boot order.	Note : Shown When boot devices existed.
Boot Option #2		Sets the system boot order.	
Boot Option #3		Sets the system boot order.	
New Boot Option Policy	Default		

Setup Item	Options	Help Text	Comments
Hard Drive BBS Priorities		Set the order of the legacy devices in this group	Set boot order in each group of the same kind, such as HDD, network.

3.5 Save & Exit Screen

The Save & Exit screen allows the user to choose whether to save or discard the configuration changes made on the other screens. It also allows the user to restore the server to the factory defaults or to save or restore them to set of user-defined default values.



Setup Item	Options	Help Text	Comments
Save & Exit Screen			
Save Options			
Save Changes and Exit		Exit system setup after saving the changes.	User is prompted for confirmation only if any of the setup fields were modified.
Discard Changes and Exit		Exit system setup without saving any changes.	
Save Changes and Reset		Reset the system after saving the changes..	
Discard Changes and Reset		Reset system setup without saving and changes.	
Save Changes		Save Changes done so far to any of the setup options.	
Discard Changes		Discard Changes done so far to any or the setup options.	
Default Options			
Restore Defaults		Restore/Load Default values for all the setup options.	

Setup Item	Options	Help Text	Comments
Save as User Defaults		Save the changes done so far as User Defaults.	
Restore User Defaults		Restore the User Defaults to all the setup options.	
Boot Override			
Shows the Device can boot.			Note : Showed When boot devices existed.

附录

附一：术语表

ACPI 高级配置和电源管理

ACPI 规范允许操作系统控制计算机及其附加设备的大部份电能。

BIOS 基本输入/输出系统

是在 PC 中包含所有的输入/输出控制代码界面的软件。它在系统启动时进行硬件检测，开始操作系统的运作，在操作系统和硬件之间提供一个界面。BIOS 是存储在一个只读存储器芯片内。

BUS 总线

在计算机系统中，不同部件之间交换数据的通道，是一组硬件线路。我们所指的 BUS 通常是 CPU 和主内存元件内部的局部线路。

Chipset 芯片组

是为执行一个或多个相关功能而设计的集成芯片。我们指的是由南桥和北桥组成的系统级芯片组，他决定了主板的架构和主要功能。

CMOS 互补金属

氧化物半导体。是一种被广泛应用的半导体类型。它具有高速、低功耗的特点。我们指的 CMOS 是在主板上的 CMOS RAM 中预留的一部份空间，用来保存日期、时间、系统信息和系统参数设定信息等。

COM 串口

一种通用的串行通信接口，一般采用标准 DB9 公头接口连接方式。

DIMM 双列直插式内存模块

是一个带有内存芯片组的小电路板。提供 64bit 的内存总线宽度。

DRAM 动态随机存取存储器

是一个普通计算机的通用内存类型。通常用一个晶体管和一个电容来存储一个位。随着技术的发展，DRAM 的类型和规格已经在计算机应用中变得越来越多样化。例如现在常用的就有 SDRAM、DDR SDRAM 和 RDRAM。

i2c

Inter-Integrated Circuit 总线是一种由 PHILIPS 公司开发的两线式串行总线，用于连接微控制器及其外围设备。

LAN 局域网接口

一个小区域内相互关联的计算机组成的一个计算机网络，一般是在一个企事业单位或一栋建筑物。局域网一般由服务器、工作站、一些通信链接组成，一个终端可以通过电线访问数据和设备的任何地方，许多用户可以共享昂贵的设备和资源。

LED 发光二极管

一种半导体设备，当电流流过时它会被点亮，通常用来把信息非常直观地表示出来，例如表示电源已经导通或硬盘驱动器正在工作等。

PnP 即插即用

允许 PC 对外接设备进行自动配置，不用用户手动操作系统就可以自己工作的一种规格。为实现这个特点，BIOS 支持 PnP 和一个 PnP 扩展卡都是必需的。

POST 上电自检

在启动系统期间，BIOS 会对系统执行一个连续的检测操作，包括检测 RAM，键盘，硬盘驱动器等，看它们是否正确连接和是否正常工作。

PS/2

由 IBM 发展的一种键盘和鼠标连接的接口规范。PS/2 是一个仅有 6PIN 的 DIN 接口，也可以用以连接其他的设备，比如调制解调器。

USB 通用串行总线

一种适合低速外围设备的硬件接口，一般用来连接键盘、鼠标等。一台 PC 最多可以连接 127 个 USB 设备，提供一个 12Mbit/s 的传输带宽；USB 支持热插拔和多数数据流功能即在系统工作时可以插入 USB 设备，系统可以自动识别并让插入的设备正常。

深圳智锐通科技有限公司
Shenzhen Zrt Co., Ltd.



智锐通公众号

&



智锐通抖音号

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- 📍 北京分公司：北京市昌平区科星西路106号院2号楼5层
- 📍 南京分公司：南京市江宁区万科都荟天地B2栋7楼
- ☎ 400-838-6869