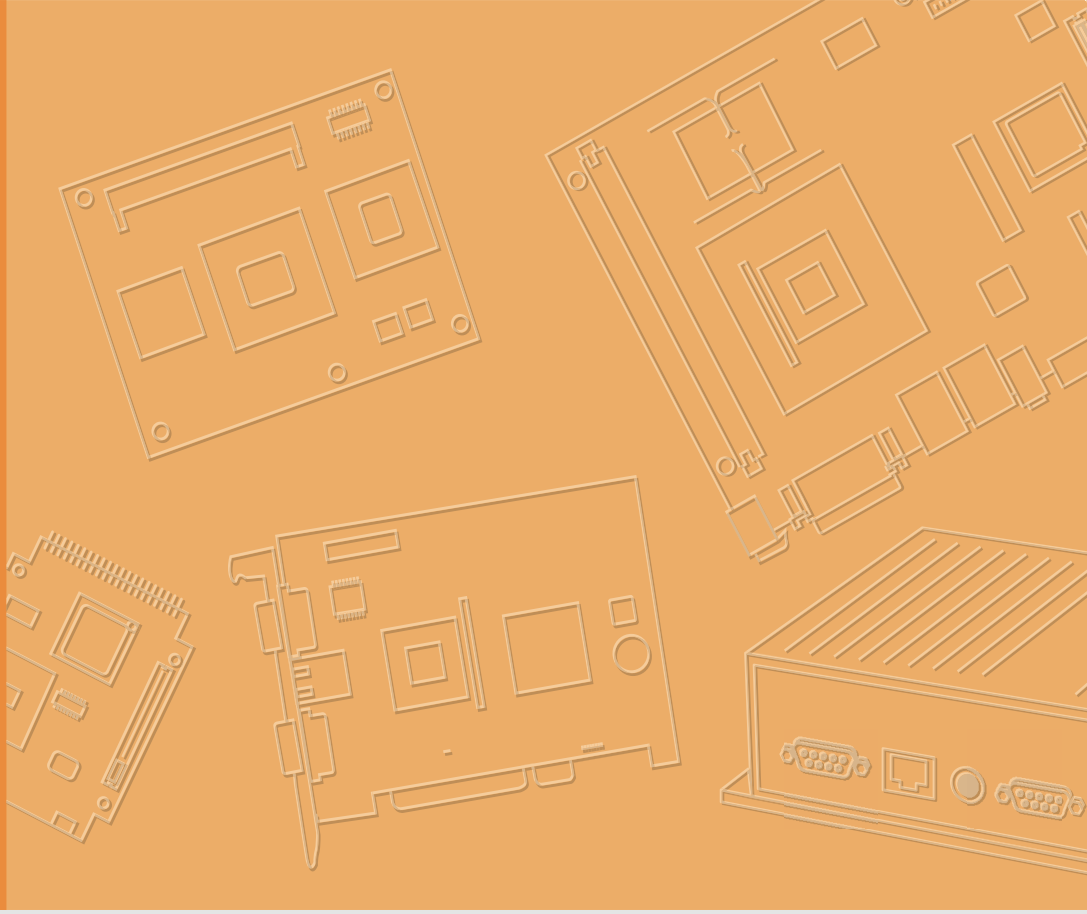

User Manual

USC-360

Ultra-slim and Versatile All-in-One POS Computer

ADVANTECH

Enabling an Intelligent Planet

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Technical Support and Assistance

1. Visit the Advantech website at www.advantech.com/support to obtain the latest product information.
2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before calling:
   - Product 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

Warnings, Cautions and Notes

Warning! *Warnings indicate conditions, which if not observed, can cause personal injury!*

Caution! *Cautions are included to help you avoid damaging hardware or losing data. e.g.*

There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Note! *Notes provide optional additional information.*

Document Feedback

To assist us in making improvements to this manual, we would welcome comments and constructive criticism. Please send all such - in writing to: support@advantech.com

Safety Precautions - Static Electricity

Follow these simple precautions to protect yourself from harm and the products from damage.

- To avoid electrical shock, always disconnect the power from the PC chassis before manual handling. Do not touch any components on the CPU card or other cards while the PC is powered on.
- Disconnect the power before making any configuration changes. A sudden rush of power after connecting a jumper or installing a card may damage sensitive electronic components.

Safety Instructions

1. Read these safety instructions carefully.
2. Retain this user manual for future reference.
3. Disconnect the equipment from all power outlets before cleaning. Use only a damp cloth for cleaning. Do not use liquid or spray detergents.
4. For pluggable equipment, the power outlet socket must be located near the equipment and easily accessible.
5. Protect the equipment from humidity.
6. Place the equipment on a reliable surface during installation. Dropping or letting the equipment fall may cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. Do not cover the openings.
8. Ensure that the voltage of the power source is correct before connecting the equipment to a power outlet.
9. Position the power cord away from high-traffic areas. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage from transient overvoltage.
12. Never pour liquid into an opening. This may cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
14. If any of the following occurs, have the equipment checked by service personnel:
    - The power cord or plug is damaged.
    - Liquid has penetrated the equipment.
    - The equipment has been exposed to moisture.
    - The equipment is malfunctioning, or does not operate according to the user manual.
    - The equipment has been dropped and damaged.
    - The equipment shows obvious signs of breakage.
15. Do not leave the equipment in an environment with a storage temperature of below -20 °C (-4 °F) or above 60 °C (140 °F) as this may damage the components. The equipment should be kept in a controlled environment.
16. CAUTION: Batteries are at risk of explosion if incorrectly replaced. Replace only with the same or equivalent type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.
17. In accordance with IEC 704-1:1982 specifications, the sound pressure level at the operator's position does not exceed 70 dB (A).

DISCLAIMER: These instructions are provided according to IEC 704-1 standards. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Caution!

1. *Do not ingest battery. Chemical Burn Hazard!*
2. *This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.*
3. *Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).*
4. *Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.*
5. *Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.*
6. *Do not subject the battery to extremely low air pressure, which may result in an explosion or the*
7. *Dispose of used batteries according to the instructions.*

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Chapter 1

General Information

This chapter gives background information on the USC-360.

Sections include:

- Introduction
- Specifications
- Dimensions

1.1 Introduction

The USC-360 all-in-one service computer is the Advantech's USC product family and Avalo solution offerings. It is powered by an Intel Twin lake N150, Core 3 N355, Celeron J6412, TG-L i3-1115G4E, i5-1145G7E, and Rockchip RK3568 quad-core Cortex-A55 processor, offering a competitive cost and energy-effective platform tailored for retail and hospitality. The USC-360 computers have an ultra-slim form factor, facilitating easy installation in diverse environments.

Notably, these computers feature a 15.6" TFT LCD monitor with an IP65-rated front panel that protects against water and dust ingress. Additionally, the USC-360 can be equipped with an optional secondary display for broadcasting product promotions, enhancing consumer engagement. Overall, USC-360 computers provide flexible point-of-service (POS) computing solutions that empower retailers and service staff to optimize operations and improve customer service.

1.2 Specifications

1.2.1 USC-360H

1.2.1.1 General Specifications

- **Processor:** Intel. Core. i3-1115G4E/i5-1145G7E/Celeron. 6305E
- **Memory:** 1 x 260-pin SODIMM DDR4-3200 (up to 32 GB)
- **Storage:** 1 x M.2 SSD
- **Display:** 15.6" TFT LCD (1920 x 1080), 220nit (350nits optional)
- **Touch Panel:** Projected capacitive (P-CAP) touch control (flat glass)
- **USB:** 3 x USB-C (One for DP, one for DC in, one for IO Hub), 2 x USB 3.0, 1 x USB 2.0 (broadside)
- **Audio:** 2 x 2W speaker installed. 1 x Line out
- **Power Supply:** 65W via power adapter
- **Bus Expansion:** 1 x M.2 slot (for Wi-Fi and Bluetooth)
- **Ethernet:** 1 x RJ-45 Intel Gigabit Ethernet (10/100/1000), I219LM
- **Operating System:** Windows 10/11, Linux
- **Cash Drawer:** 1 x cash drawer port
- **USB-C Input:** 20 V_{DC}
- **IP Rating:** IP65 for front panel
- **Dimensions (W x H x D):** 381 x 230.4 x 31.5 mm
- **Weight:** 4 kg (Net); 4.5 kg (Gross)
- **Color:** Black
- **I/O on extension HUB:**
  - UP36 Power USB Hub: 2 x COM, 3 x 12V Power USB, 1 x 24V Power USC, 2 x USB 2.0, 1 x USB C, 1 x DC IN (powered by 180W adapter)
  - UP37 COM Port Hub: 4 x COM (RJ-48 connector), 1 x USB C Input, 6 x USB 2.0 (powered by USC-360 65W adapter

1.2.1.2 Environmental Specifications

- **Operating Temperature:** 0 ~ 40°C (32 ~ 104°F)
- **Relative Humidity:** 10 ~ 90% @ 40°C/104 °F
- **Shock:** 10G peak acceleration (11 ms duration)
- **Vibration:** 5 ~ 500 Hz 0.5 Grms, random
- **Certification:** FCC, CE, CCC, BSMI, UL, CB, BIS

1.2.1.3 Power

- **Power Input Voltage:** 65W (100-240Vac,47-63Hz,1.5A) power adapter / 180W by UP36 Hub (100-240Vac,47-63Hz,7.5A) power adapter (optional)
- **Power Switch:** Orange: standby/Blue: power on

1.2.2 USC-360J

1.2.2.1 General Specifications

- **Processor:** Intel Celeron J6412
- **Memory:** 1 x 260-pin SODIMM DDR4-3200 (up to 32 GB)
- **Storage:** 1 x M.2 SSD
- **Display:** 15.6" TFT LCD (1920 x 1080), 220nit (350 nits optional)
- **Touch Panel:** Projected capacitive (P-CAP) touch control (flat glass)
- **USB:** 3 x USB-C (One for DP, one for DC in, one for IO Hub), 2 x USB 3.0, 1 x USB 2.0 (broadside)
- **Audio:** 2 x 2W speaker installed. 1 x Line out
- **Power Supply:** 65W via power adapter
- **Bus Expansion:** 1 x M.2 slot (for Wi-Fi and Bluetooth)
- **Ethernet:** 1 x RJ-45 Intel Gigabit Ethernet(10/100/1000), I226-V
- **Operating System:** Windows 10/11, Linux
- **Cash Drawer:** 1 x cash drawer port
- **USB-C Input:** 20 V_{DC}
- **IP Rating:** IP65 for front panel
- **Dimensions (W x H x D):** 381 x 230.4 x 31.5 mm
- **Weight:** 4 kg (Net); 4.5 kg (Gross)
- **Color:** Black
- **I/O on extension HUB:**
  - UP36 Power USB Hub: 2 x COM, 3 x 12V Power USB, 1 x 24V Power USC, 2 x USB 2.0, 1 x USB C, 1 x DC IN (powered by 180W adapter)
  - UP37 COM Port Hub: 4 x COM (RJ-48 connector), 1 x USB C Input, 6 x USB 2.0 (powered by USC-360 65W adapter

1.2.2.2 Environmental Specifications

- **Operating Temperature:** 0 ~ 40 °C (32 ~ 104°F)
- **Relative Humidity:** 10 ~ 90% @ 40 °C/104 °F
- **Shock:** 10G peak acceleration (11 ms duration)
- **Vibration:** 5 ~ 500 Hz 0.5 Grms, random
- **Certification:** FCC, CE, CCC, BSMI, UL, CB, BIS

1.2.2.3 Power

- **Power Input Voltage:** 65W (100-240Vac,47-63Hz,1.5A) power adapter / 180W by UP36 Hub (100-240Vac,47-63Hz,7.5A) power adapter (optional)
- **Power Switch:** Orange: standby/Blue: power on

1.2.3 USC-360D

1.2.3.1 General Specifications

- **Processor:** Rockchip RK3568 quad-core Cortex.-A55
- **Memory:** 4GB DDR4 onboard
- **Storage:** 32GB onboard eMMC, Micro SD

- **Display:** 15.6" TFT LCD (1920 x 1080), 220nit (350nits optional)
- **Touch Panel:** Projected capacitive (P-CAP) touch control (flat glass)
- **USB:** 3 x USB-C (One for DP, one for DC in, one for IO Hub), 2 x USB 3.0, 1 x USB 2.0 (broadside)
- **Audio:** 2 x 2W speaker installed. 1 x Line out
- **Power Supply:** 65W via power adapter
- **Bus Expansion:** 1 x Mini PCIe for 4G (optional)
- **Ethernet:** 1 x RJ45 10/100/1000 Mbps (PoE optional) / Onboard WIFI 5+BT module (optional)
- **Operating System:** Android 12, Linux
- **Cash Drawer:** 1 x cash drawer port
- **USB-C Input:** 20 V_{DC}
- **IP Rating:** IP65 for front panel
- **Dimensions (W x H x D):** 381 x 230.4 x 31.5 mm
- **Weight:** 4 kg (Net); 4.5 kg (Gross)
- **Color:** Black
- **I/O on extension HUB:**
  - UP36 Power USB Hub: 2 x COM, 3 x 12V Power USB, 1 x 24V Power USC, 2 x USB 2.0, 1 x USB C, 1 x DC IN (powered by 180W adapter)
  - UP37 COM Port Hub: 4 x COM (RJ-48 connector), 1 x USB C Input, 6 x USB 2.0 (powered by USC-360 65W adapter

1.2.3.2 Environmental Specifications

- **Operating Temperature:** 0 ~ 40 °C (32 ~ 104°F)
- **Relative Humidity:** 10 ~ 90% @ 40 °C/104 °F
- **Shock:** 10G peak acceleration (11 ms duration)
- **Vibration:** 5 ~ 500 Hz 0.5 Grms, random
- **Certification:** FCC, CE, CCC, BSMI, UL, CB, BIS

1.2.3.3 Power

- **Power Input Voltage:** 65W (100-240Vac,47-63Hz,1.5A) power adapter/180W by UP36 Hub (100-240Vac,47-63Hz,7.5A) power adapter (optional)
- **Power Switch:** Orange: standby/Blue: power on

1.2.4 USC-360N

1.2.4.1 General Specifications

- **Processor:** Intel® Twin lake Processor N150, Core i3 N355
- **Memory:** 1 x 262-pin SODIMM DDR5 (up to 16 GB)
- **Storage:** 1 x M.2 SSD
- **Display:** 15.6" TFT LCD (1920 x 1080), 220nit (350nits optional)
- **Touch Panel:** Projected capacitive (P-CAP) touch control (flat glass)
- **USB:** 3 x USB-C (One for DP, one for DC in, one for IO Hub), 2 x USB 3.0, 2 x USB 2.0 (broadside), 2 x USB 2.0 (Stand)
- **Serial port:** 2 x RS-232 (DB9)
- **Audio:** 2 x 2W speaker installed
- **Power Supply:** 65W via power adapter
- **Bus Expansion:** 1 x M.2 slot (for Wi-Fi and Bluetooth)
- **Ethernet:** 1 x 2.5G LAN RJ-45, I226V
- **Operating System:** Windows 11, Linux

- **Cash Drawer:** 1 x cash drawer port
- **USB-C Input:** 20 V_{DC}
- **IP Rating:** IP65 for front panel
- **Dimensions (W x H x D):** 381 x 230.4 x 31.5 mm
- **Weight:** 4.5 Kg (Net); 5.2 Kg (Gross)
- **Color:** Black/White

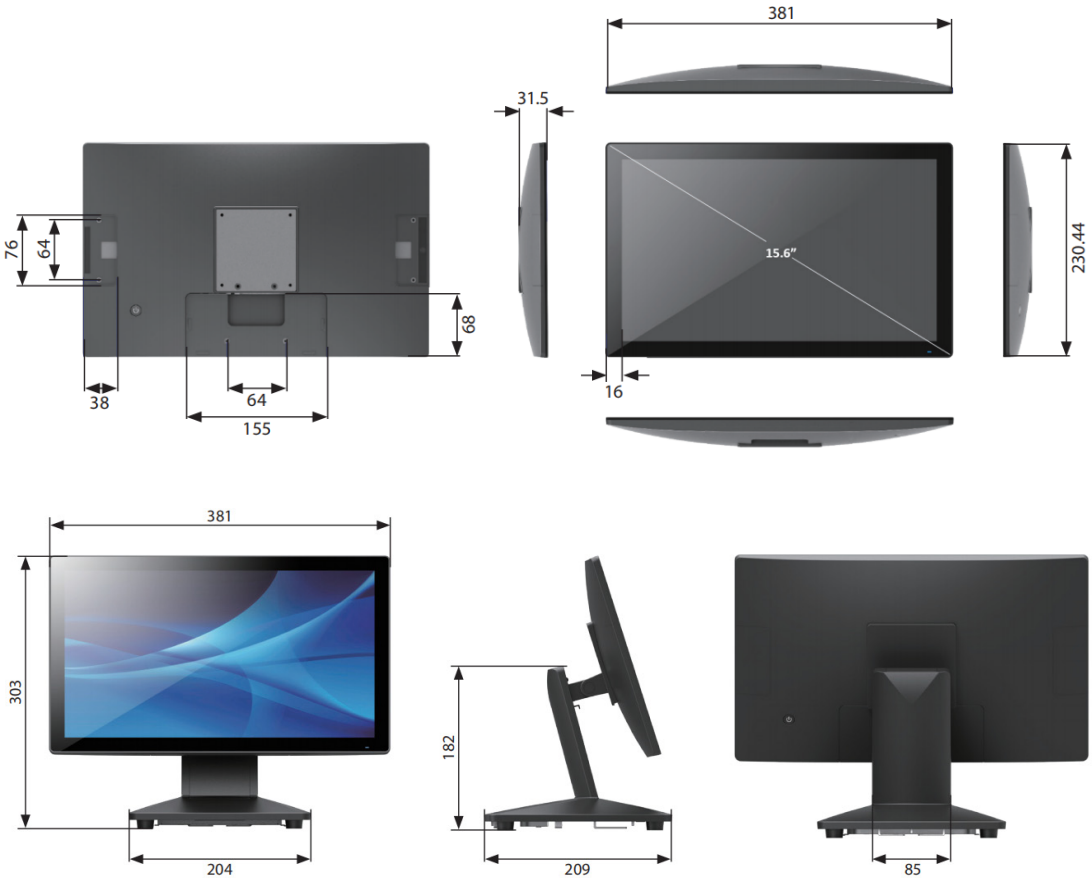
1.2.4.2 Environmental Specifications

- **Operating Temperature:** 0 ~ 40° C (32 ~ 104° F)
- **Relative Humidity:** 10 ~ 90% @ 40 °C/104 °F
- **Shock:** 10G peak acceleration (11 ms duration)
- **Vibration:** 5 ~ 500 Hz 0.5 Grms, random
- **Certification:** FCC, CE, CCC, BSMI, NRTL, CB

1.2.4.3 Power

- **Power Input Voltage:**
  - 65W (100-240Vac,47-63Hz,3.25A) power adapter
  - 90W (100-240Vac,47-63Hz,4.5A) power adapter (optional)
- **Power Switch:** Orange: standby/Blue: power on

1.3 Dimensions



Chapter 2

System Setup

This chapter details system setup on USC-360.

Sections include:

- A Quick Tour of the Device
- Installation Procedures
- BIOS Setup

2.1 A Quick Tour of the Device

Before setting up the device, take a moment to familiarize yourself with the functions of the controls, drivers, connectors, and ports located on the front panel, as illustrated in the figures below.

When you place the USC-360 upright on the desktop, its front panel appears as shown in Figure 2.1.

Figure 2.1 Front view of USC-360D/J/H

Figure 2.2 Front view of USC-360N

Turn the computer to view the I/O, as shown in Figures 2.2 and 2.3. The I/O interfaces includes serial ports, USB slots, Ethernet port, RJ-11, power inlet.

Figure 2.3 Rear of view of USC-360D/J/H

Figure 2.4 Rear of view of USC-360N

Figure 2.5 IO Connectors of USC-360D/J/H

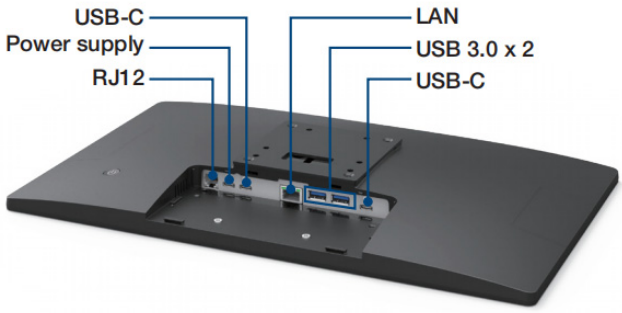


Figure 2.6 IO Connectors of USC-360N

2.2 Installation Procedures

2.2.1 Connecting the Power Cord

This product only supports DC power ($20V_{DC}$, max. 65W). Be sure to hold the plug end when plugging or unplugging the power cord.

2.2.2 Connecting the Mouse and Keyboard

Connect the mouse and keyboard via the USB ports located in the I/O section at the rear of the computer.

2.2.3 Activating the Power Source

Verify that the power cord is connected to the power input port of the device. Then connect the plug end of the power cord to the wall power outlet.

2.3 USC-360H BIOS Setup

2.3.1 Introduction

With the AMI BIOS Setup program, you can modify BIOS settings to control the special features of your computer. The Setup program uses a number of menus for making changes. This chapter describes the basic navigation of the series system setup screens.

2.3.2 BIOS Setup

The Series system has AMI BIOS built in, with a SETUP utility that allows users to configure required settings or to activate certain system features.

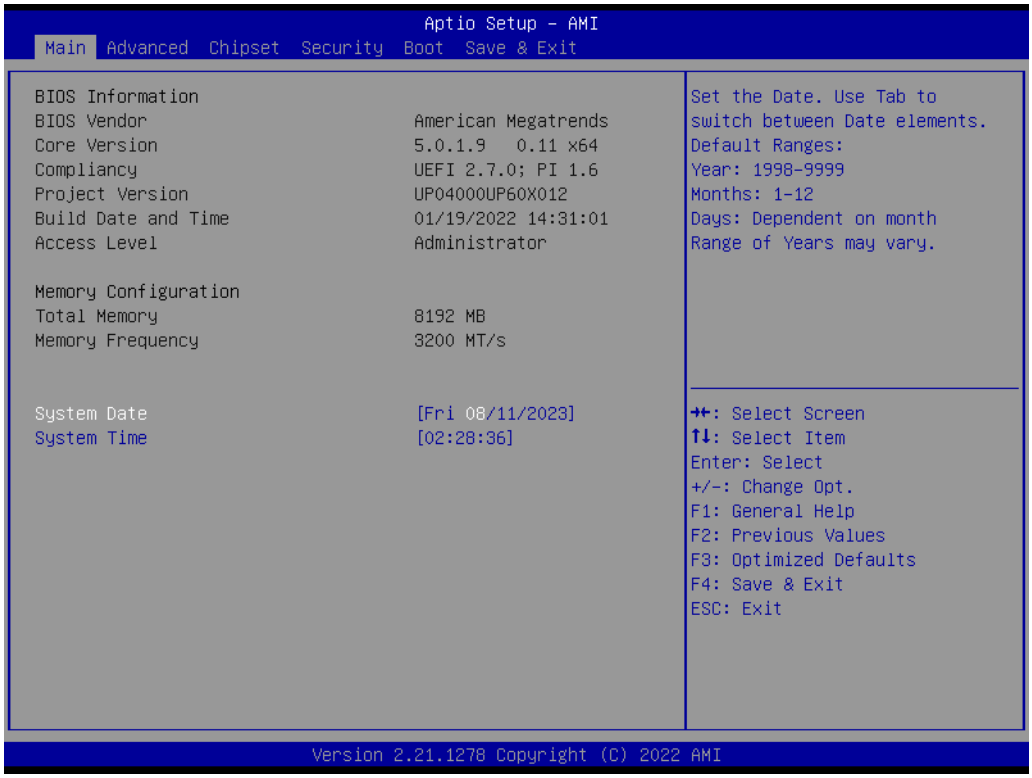
The SETUP saves the configuration in the FLASH of the motherboard. When the Power is turned off; the battery on the board supplies the necessary power to pr serve the FLASH. When the power is turned on, press the <Del> or <Esc> button during the BIOS POST (Power-On Self-Test) to access the CMOS SETUP screen.

Table 2.1: Control Keys

← >< → >	Select Screen
< ↑ >< ↓ >	Select Item
<Enter>	Select
<+/->	Change Opt
<F1>	General help
<F2>	Previous Values
<F3>	Optimized Defaults
<F4>	Save & Exit
<Esc>	Exit

2.3.2.1 Main Menu

Press <Del> or <Esc> to enter AMI BIOS CMOS Setup Utility, the Main Menu will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.



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.

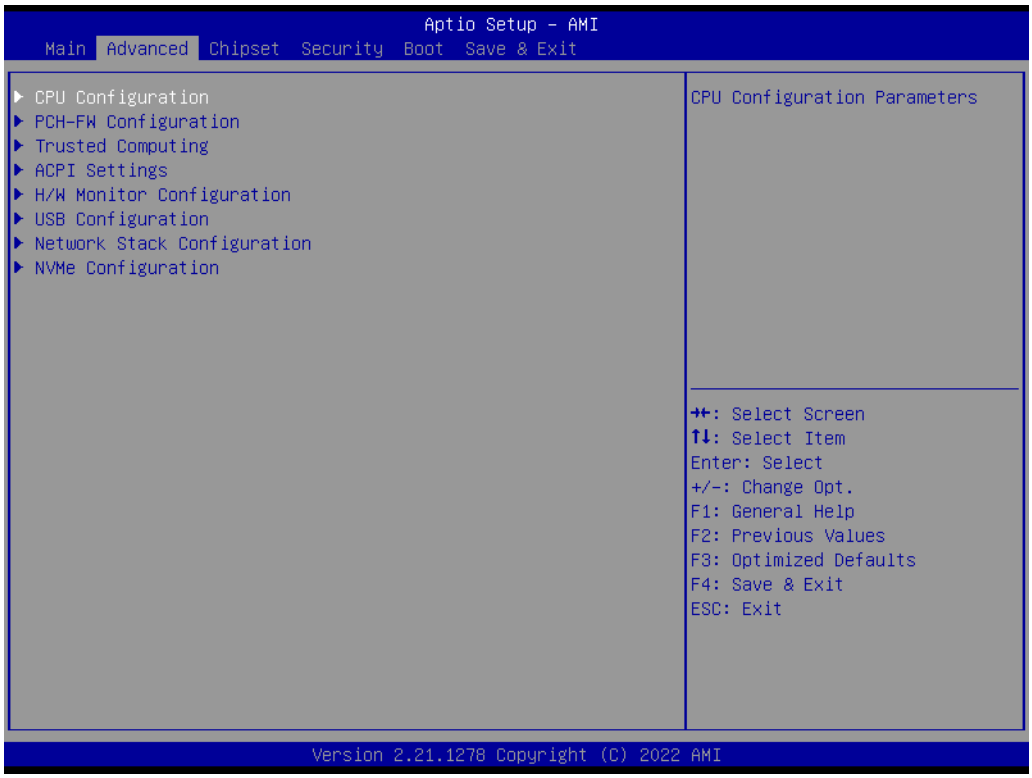
- **System time/System date**

Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard.

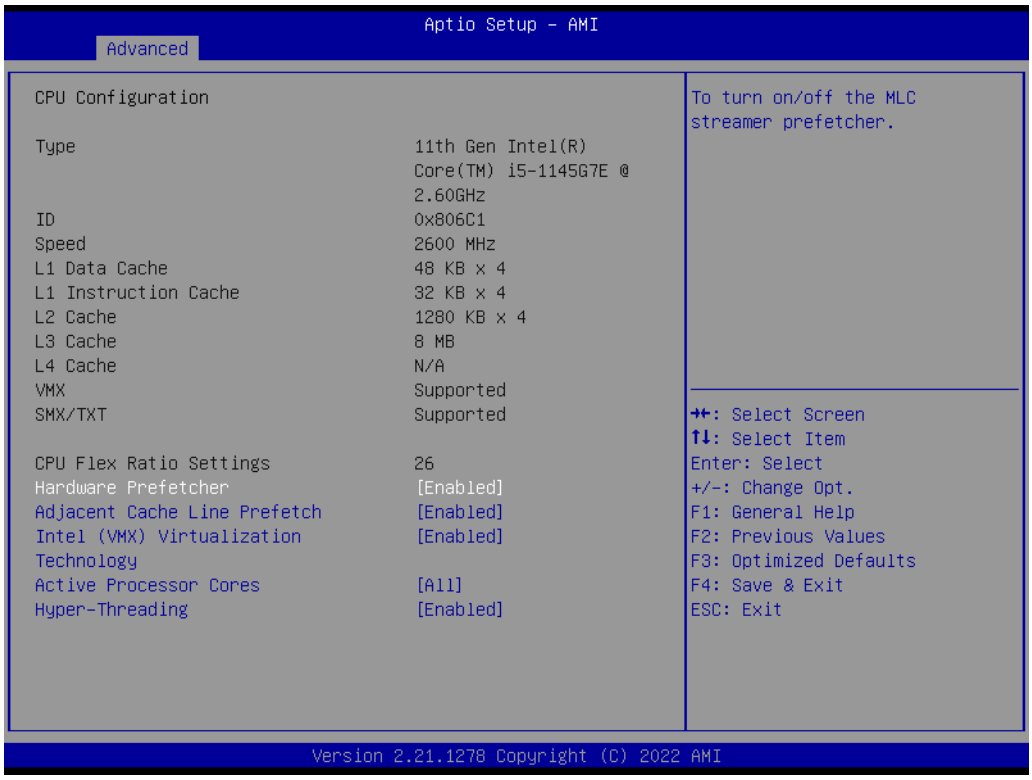
Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time must be entered in HH:MM:SS format.

2.3.2.2 Advanced BIOS Features

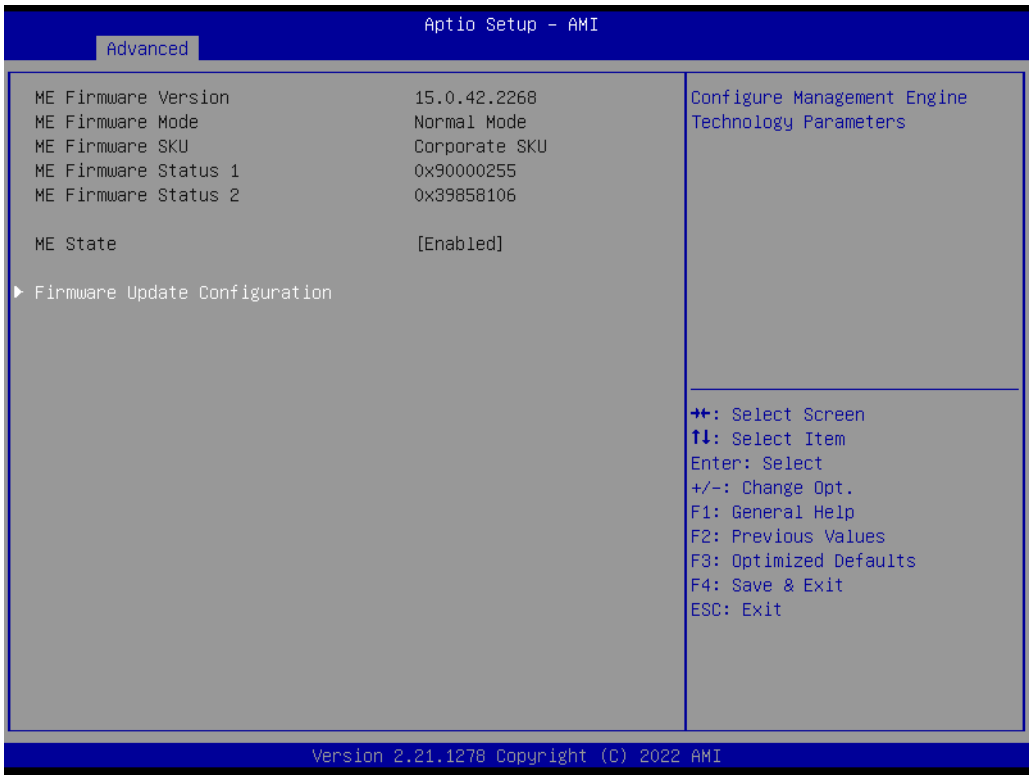
Select the Advanced tab from the setup screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as CPU Configuration, to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. 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.



CPU Configuration



PCH-FW Configuration



TPM

Aptio Setup – AMI
Advanced
TPM 2.0 Device Found
Firmware Version: 7.63
Vendor: IFX
Security Device Support [Enable]
Active PCR banks SHA256
Available PCR banks SHA-1,SHA256
SHA-1 PCR Bank [Disabled]
SHA256 PCR Bank [Enabled]
Pending operation [None]
Platform Hierarchy [Enabled]
Storage Hierarchy [Enabled]
Endorsement Hierarchy [Enabled]
TPM 2.0 UEFI Spec Version [TCG_2]
Physical Presence Spec Version [1.3]
TPM 2.0 InterfaceType [TIS]
Device Select [Auto]
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.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
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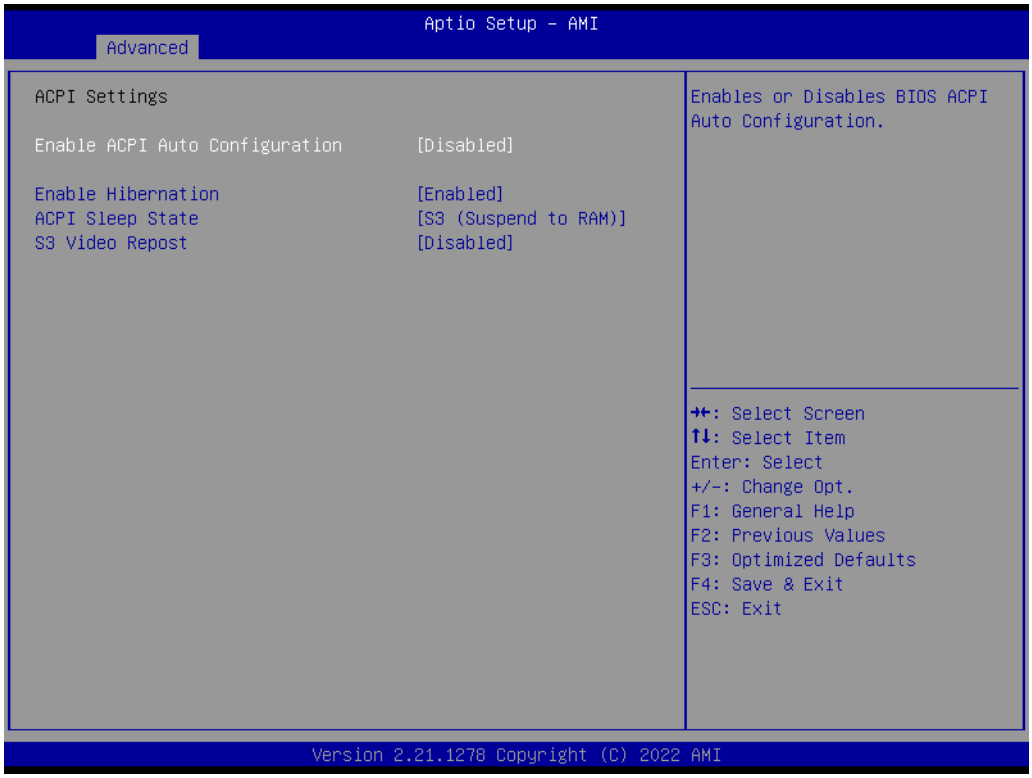
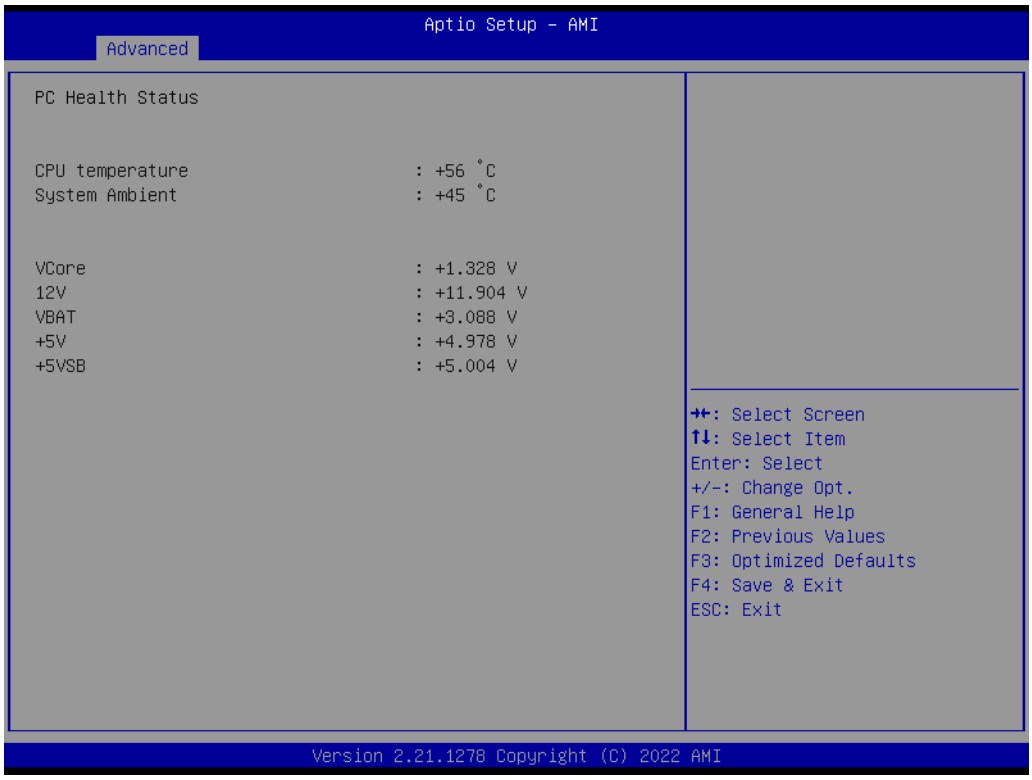
ACPI Settings

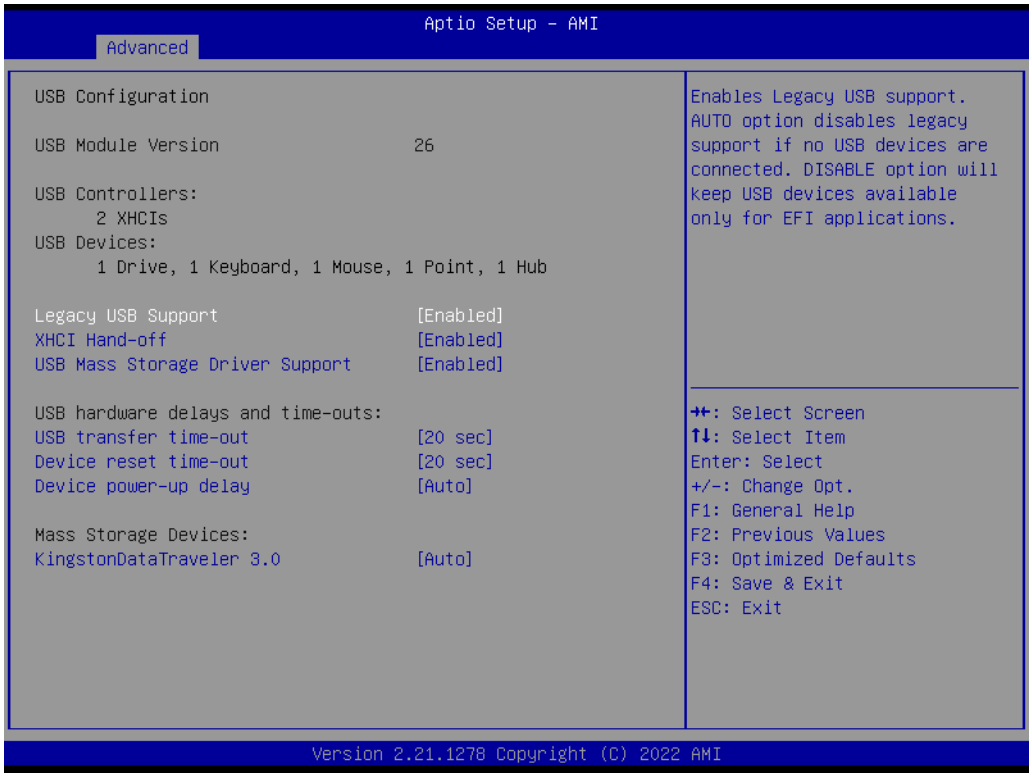


– Enable ACPI Auto Configuration [Disabled]
  Enable or disable BIOS ACPI auto configuration.
– Enable Hibernation [Enabled]
  Enables or Disables System ability to Hibernate. This option may be not effective with some OS.
– ACPI Sleep State [S3(Suspend to RAM)]
  Select ACPI sleep state the system will enter when the SUSPEND button is pressed.

Hardware Monitor

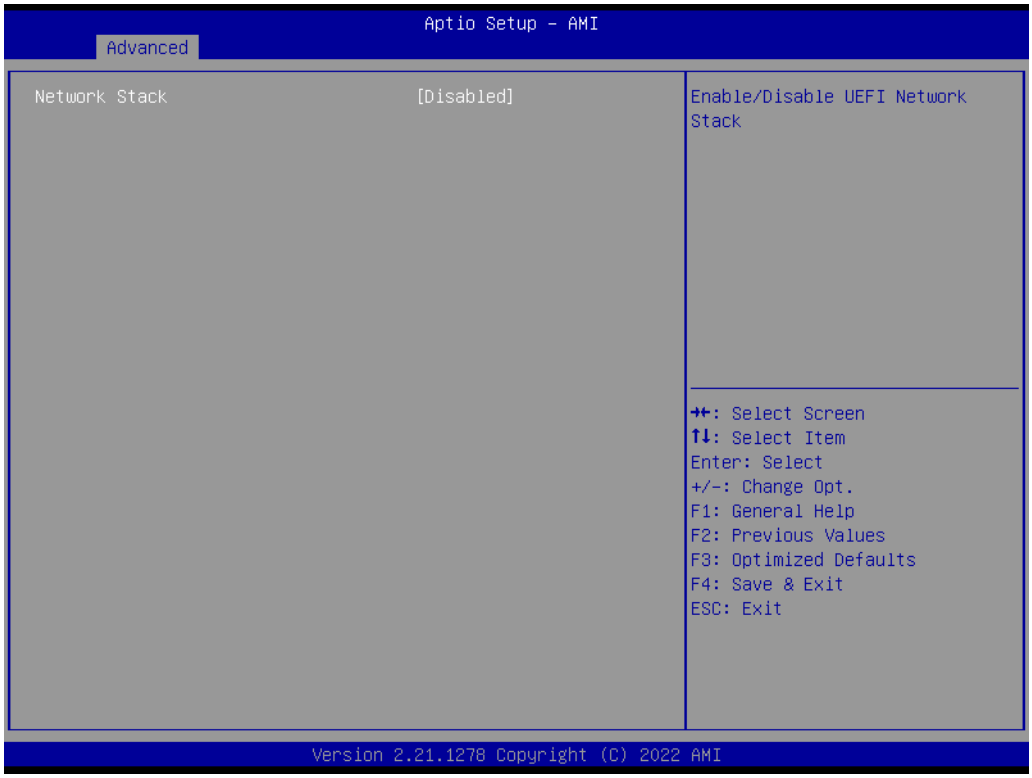


USB Configuration

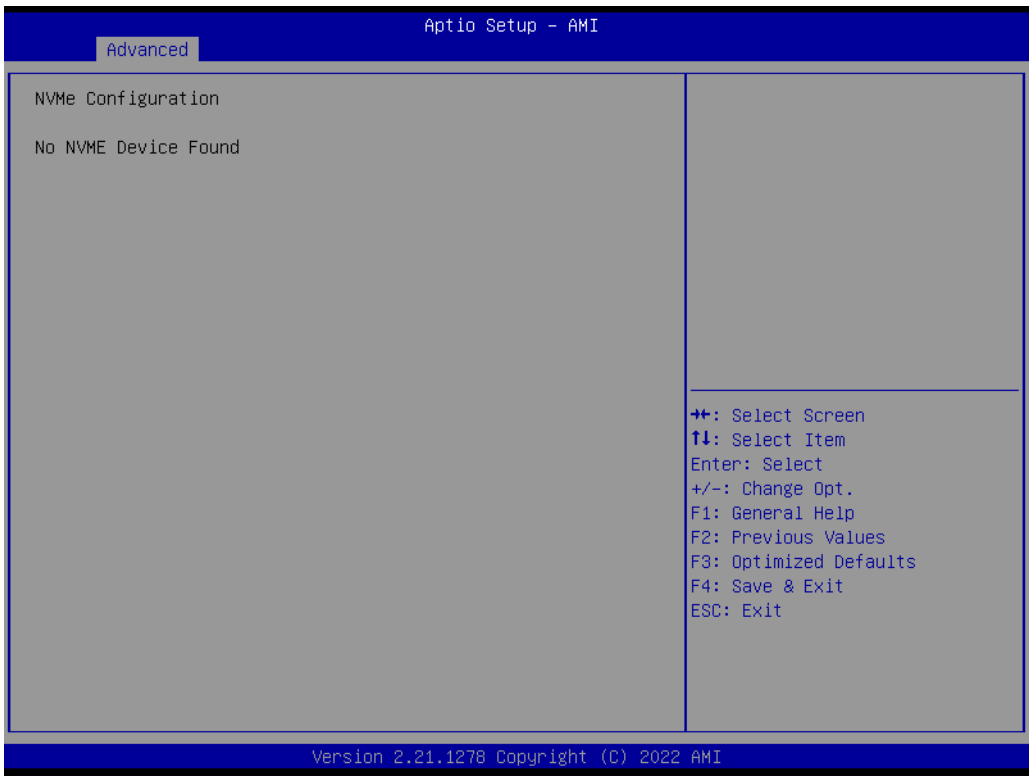


- Legacy USB Support [Enabled]
  Enables support for legacy USB. Auto option disables legacy support if no USB devices are connected.
- XHCI Hand-off [Enabled]
  USB Mass Storage Driver Support [Enabled]
- Mass Storage Devices [Auto]
  Shows USB mass storage device information

Network Stack Configuration



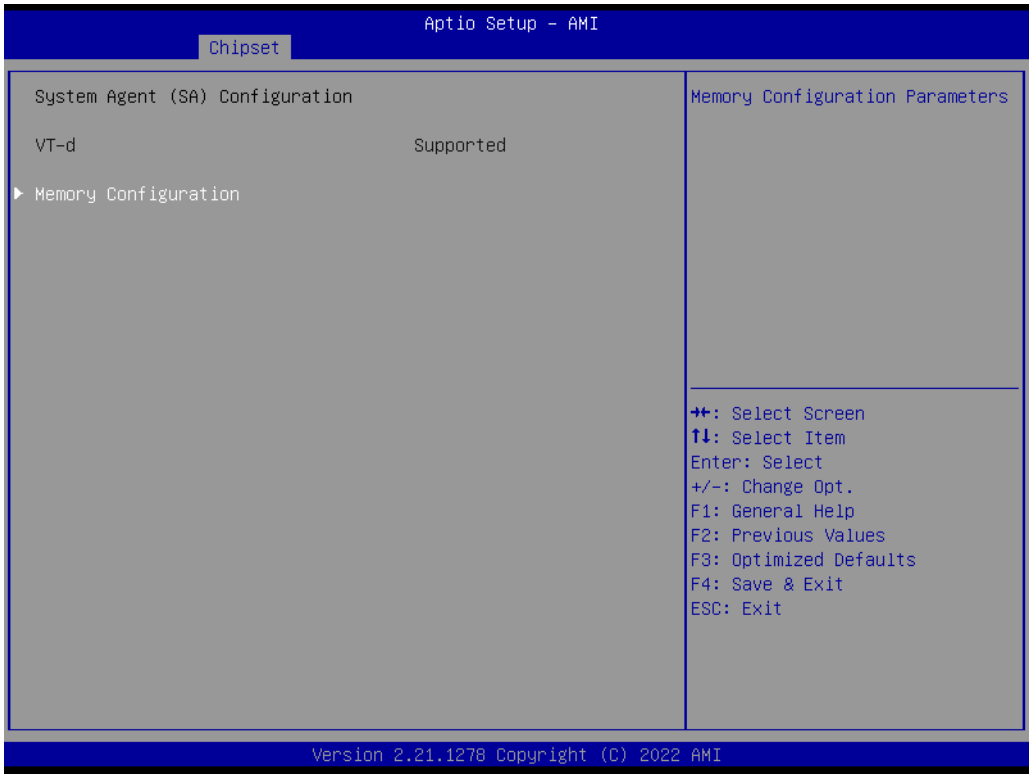
NVMe Configuration

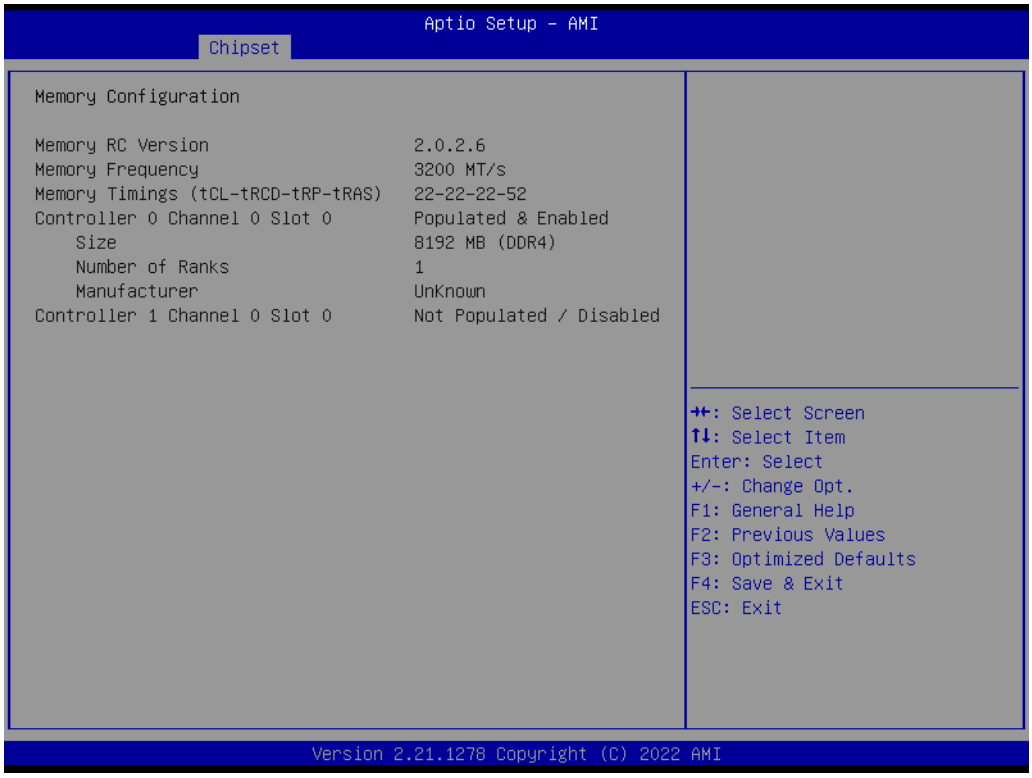


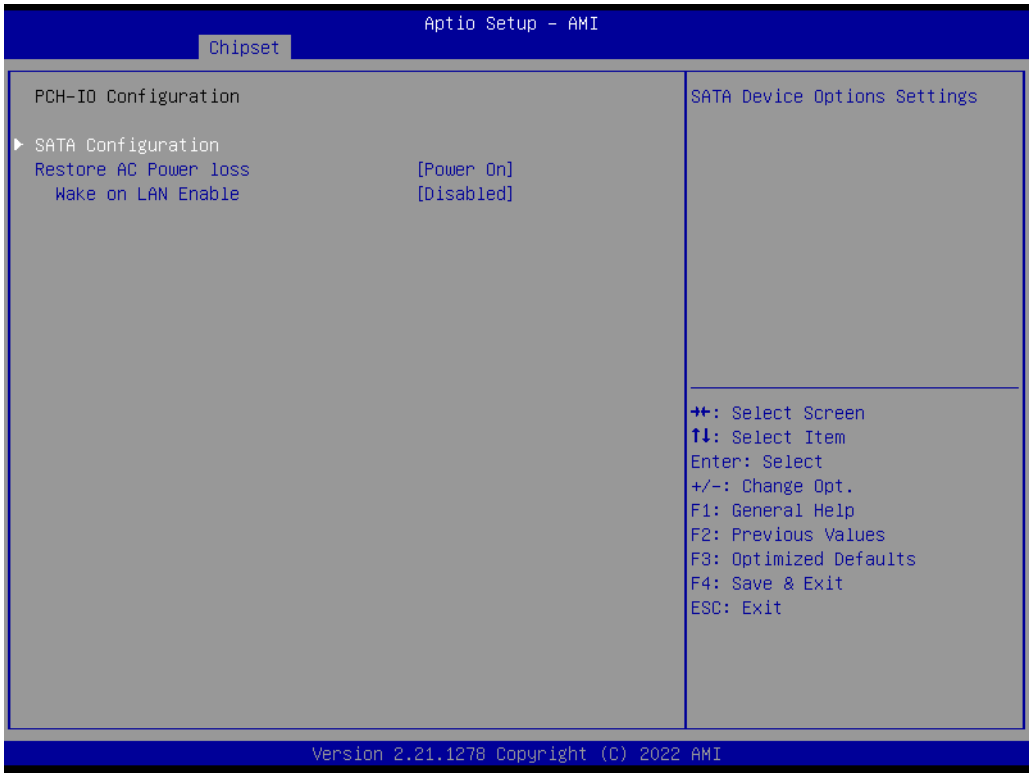
2.3.2.3 Chipset Configuration Setting

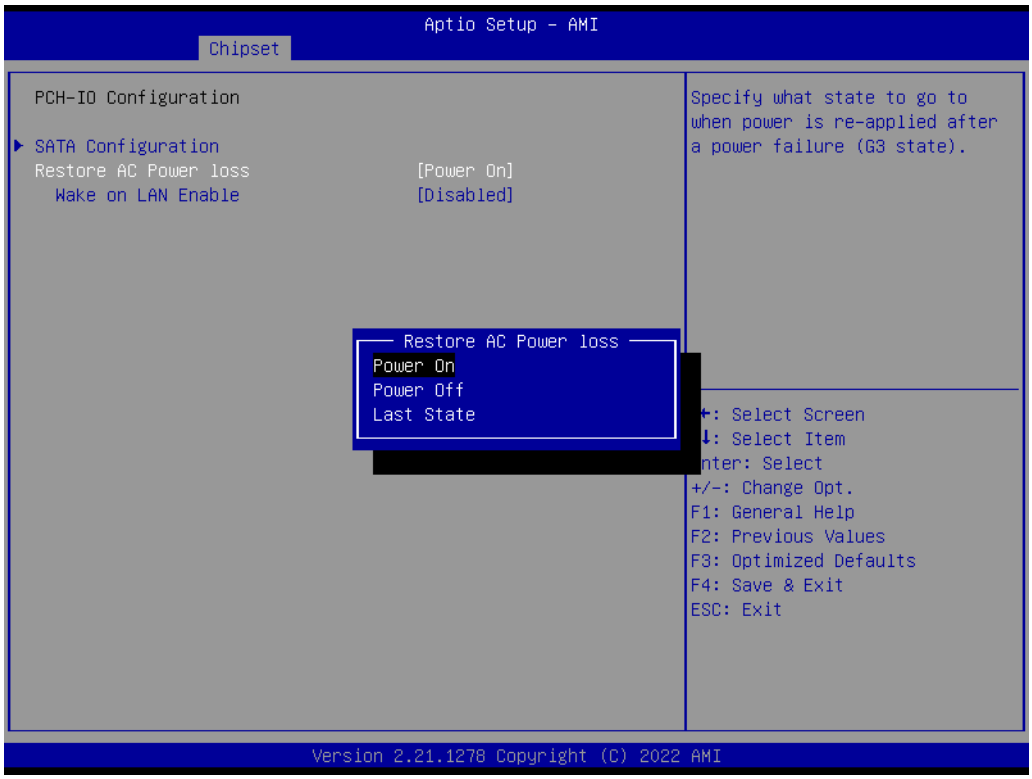
Select the chipset tab from the BIOS setup screen to enter the Chipset Setup screen.

Users can select any item in the left frame of the screen, The Chipset Setup screens are shown below. The submenus are described on the following pages.

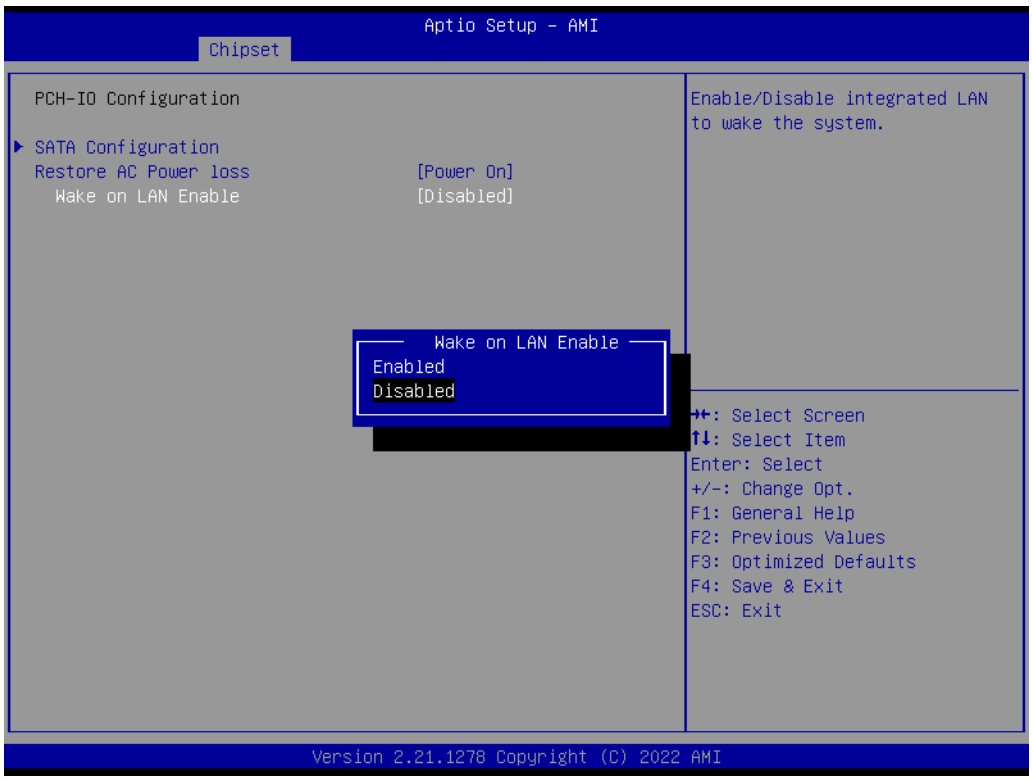






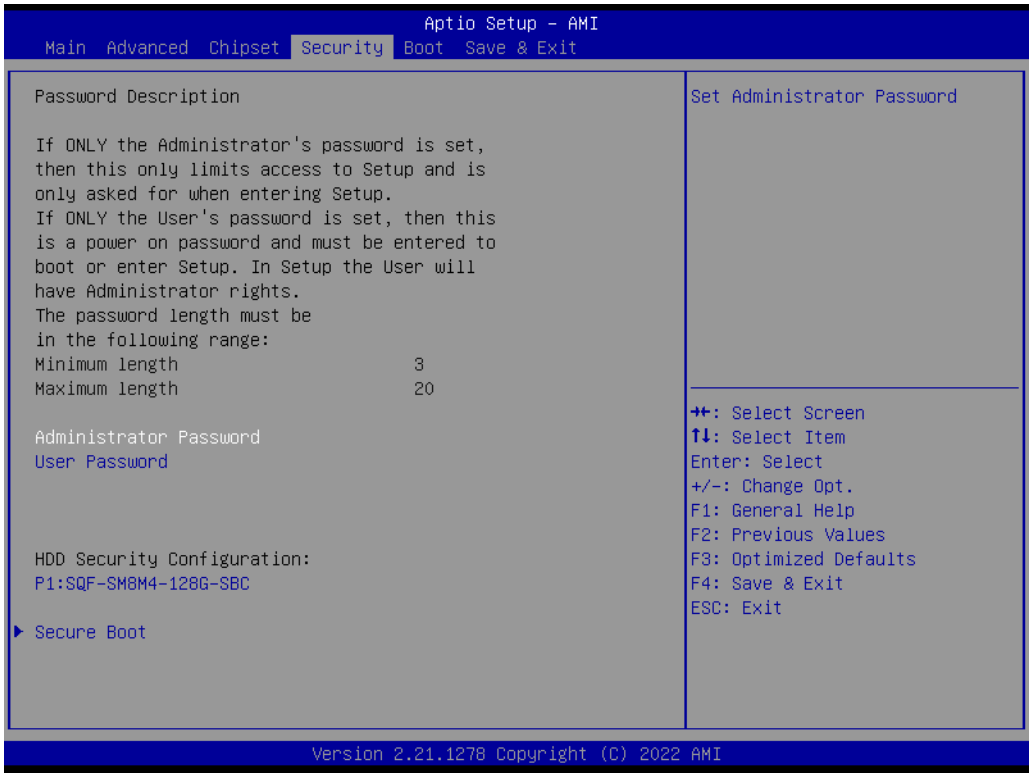


- **Restore AC Power Loss [Power off]**
  AC power loss power off/Power on



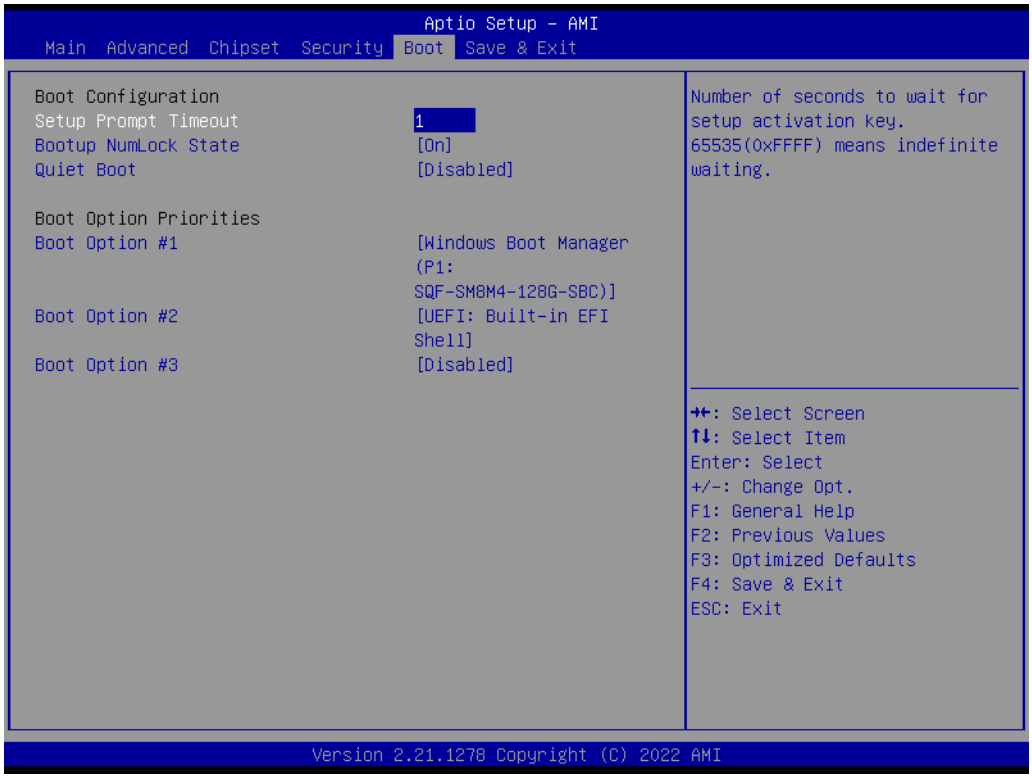
- **Wake on LAN [Enable]**
  Enable or disable Wake on LAN function

2.3.2.4 Security Configuration Setting



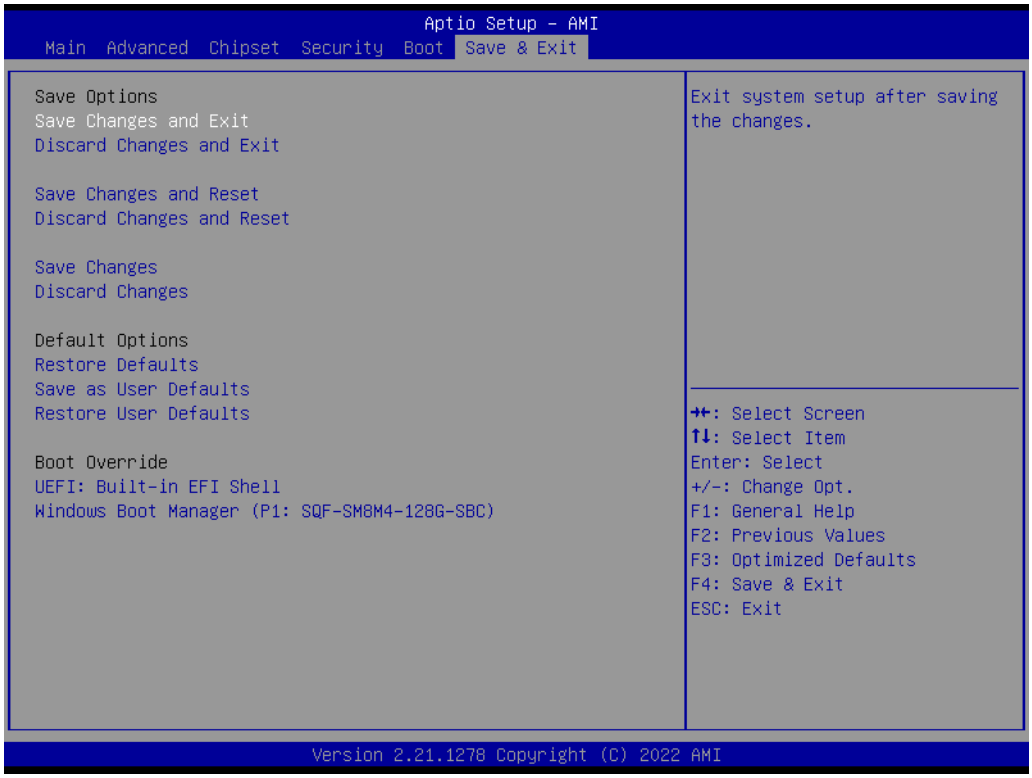
- **Administrator Password**
  Select this option and press <ENTER> to access the sub menu, and then type in the password. Set the Administrator password.
- **User Password**
  Select this option and press <ENTER> to access the sub menu, and then type in the password. Set the User Password.

2.3.2.5 Boot Configuration



- **Setup Prompt Timeout**
  User the <+> and <-> keys to adjust the number of seconds to wait for setup activation key.
- **Bootup NumLock State [On]**
  On or Off power on state for the NumLock,
- **Boot Option #1/#2/#3**
  Choose boot priority from boot device,

2.3.2.6 Save & Exit Configuration Setting



- **Save Changes and Reset**
  When users have completed system configuration, select this option to save changes, exit BIOS setup menu and reboot the computer to take effect all system configuration parameters.
  1. Select Exit Saving Changes from the Exit menu and press <Enter>. The following message appears: Save Configuration Changes and Exit Now? [Ok][Cancel]
  2. Select Ok or cancel.
- **Discard Changes and Reset**
  Select this option to quit Setup without making any permanent changes to the system configuration1. Select Reset Discarding Changes from the Exit menu and press <Enter>.
  The following message appears: Discard Changes and Exit Setup Now? [Ok] [Cancel]
  1. Select Ok to discard changes and reset. Discard Changes.
     Select Discard Changes from the Exit menu and press <Enter>.
- **Restore Default**
  The BIOS automatically configures all setup items to optimal settings when users select this option. Defaults are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Defaults if the user's computer is experiencing system configuration problems. Select Restore Defaults from the Exit menu and press <Enter>.
- **Boot Override**
  Shows the boot device types on the system.

2.4 USC-360J BIOS Setup

2.4.1 Introduction

With the AMI BIOS Setup program, you can modify BIOS settings to control the special features of your computer. The Setup program uses a number of menus for making changes. This chapter describes the basic navigation of the series system setup screens.

2.4.2 BIOS Setup

The Series system has AMI BIOS built in, with a SETUP utility that allows Users to configure required settings or to activate certain system features.

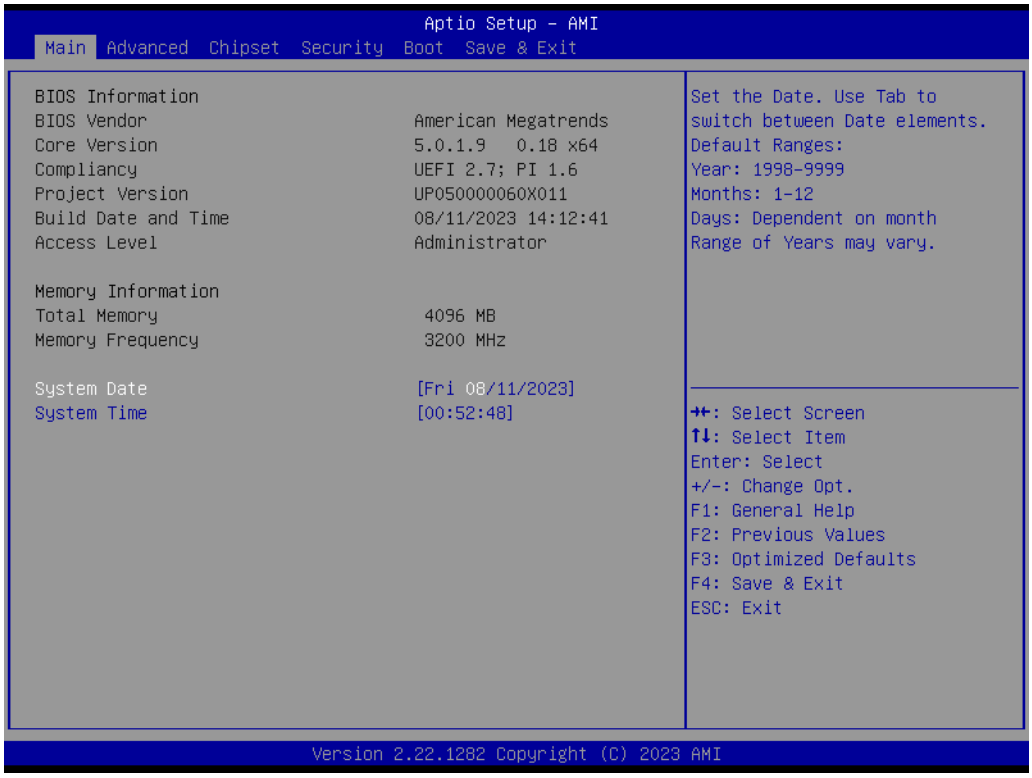
The SETUP saves the configuration in the FLASH of the motherboard. When the Power is turned off; the battery on the board supplies the necessary power to pr serve the FLASH. When the power is turned on, press the <Del> or <Esc> button during the BIOS POST (Power-On Self-Test) to access the CMOS SETUP screen.

Table 2.2: Control Keys

← >< → >	Select Screen
< ↑ >< ↓ >	Select Item
<Enter>	Select
<+/->	Change Opt
<F1>	General help
<F2>	Previous Values
<F3>	Optimized Defaults
<F4>	Save & Exit
<Esc>	Exit

2.4.2.1 Main Menu

Press <Del> or <Esc> to enter AMI BIOS CMOS Setup Utility, the Main Menu will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.



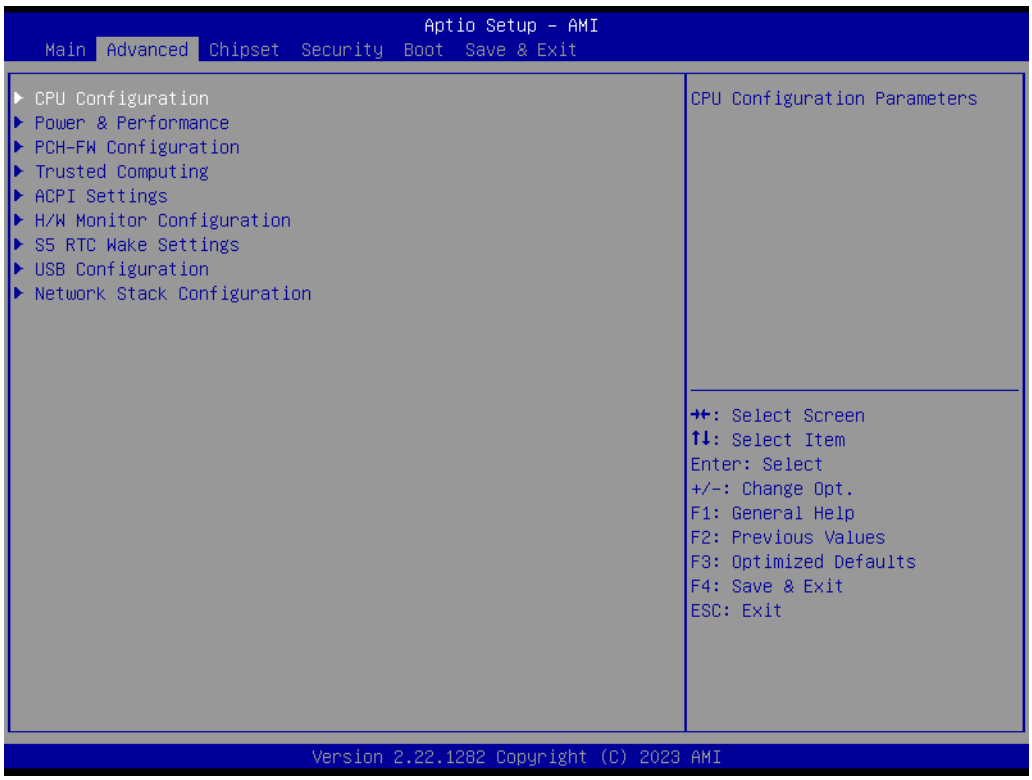
The Main BIOS setup screen has two main frames. The left frame displays all the options that can be configured. Grayed-out options cannot be configured; options in blue can. The right frame displays the key legend.

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.

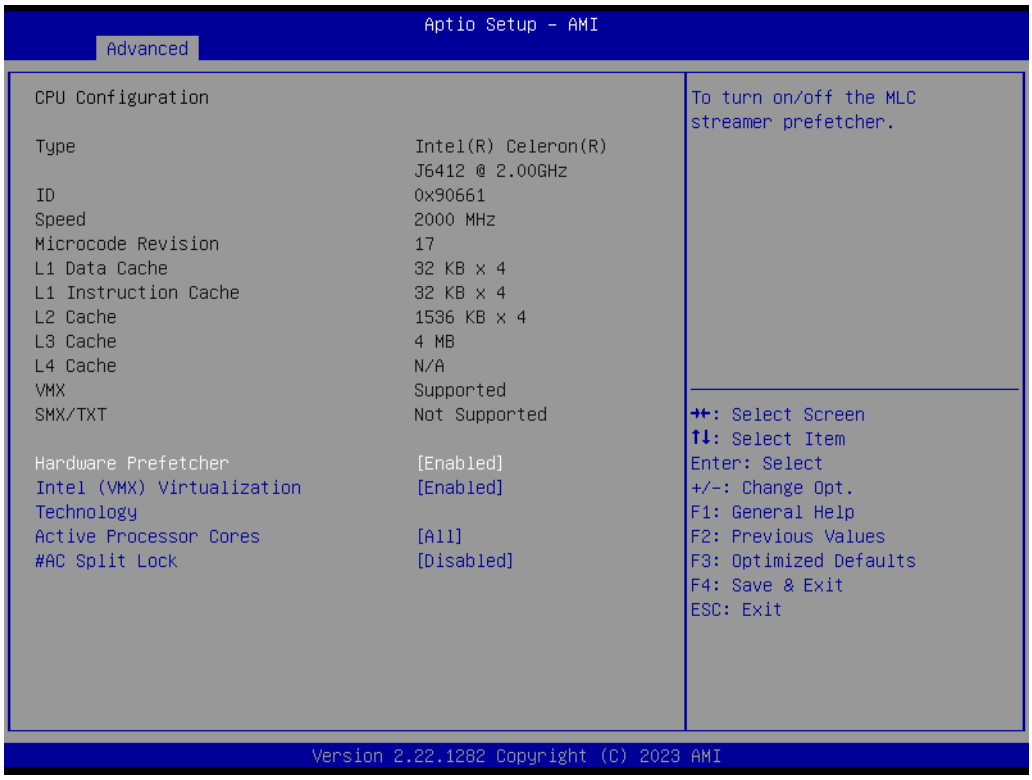
- **System time/System date**
  Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time must be entered in HH:MM:SS format.

2.4.2.2 Advanced BIOS Features

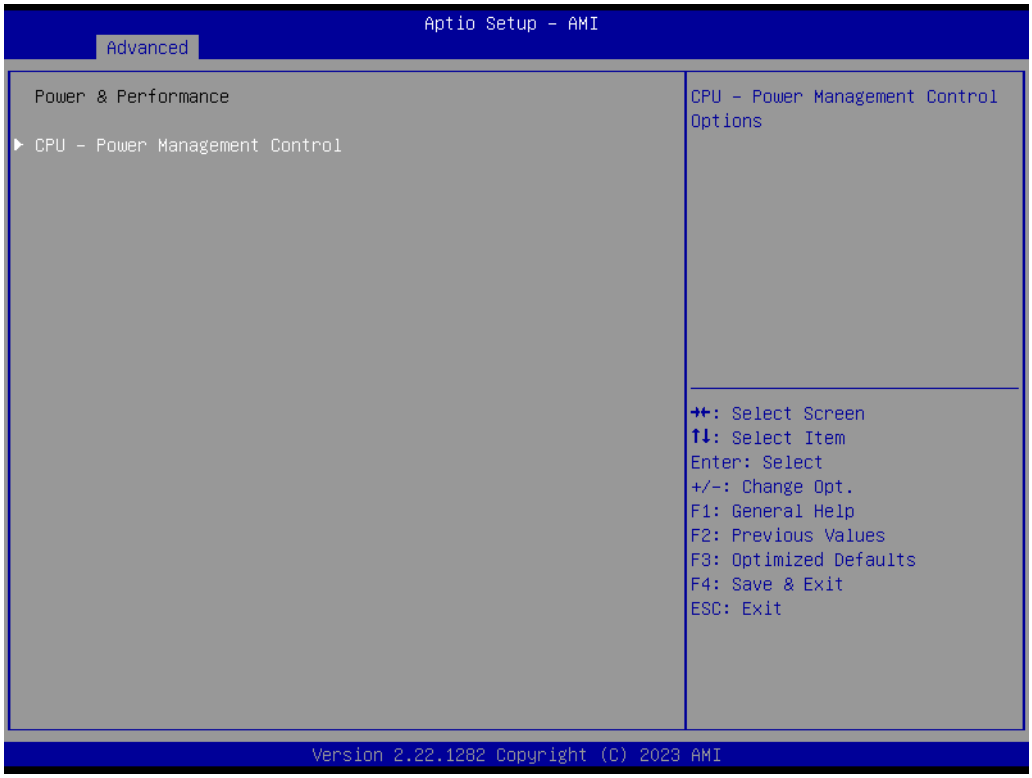
Select the Advanced tab from the setup screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as CPU Configuration, to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. 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.



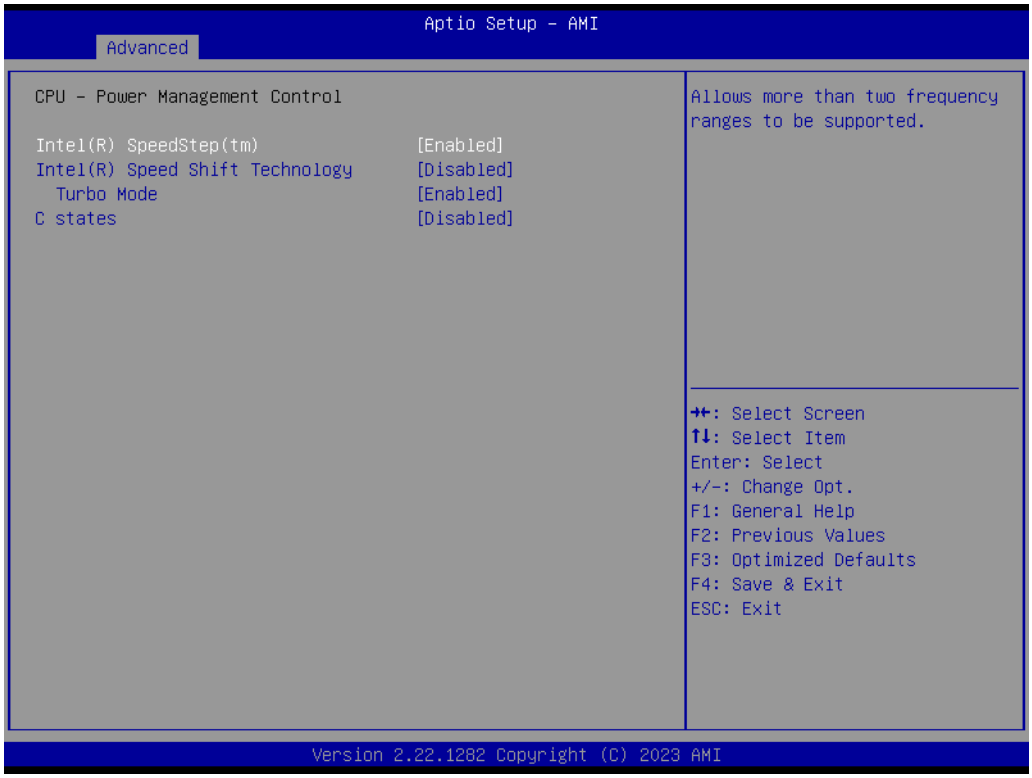
CPU Configuration



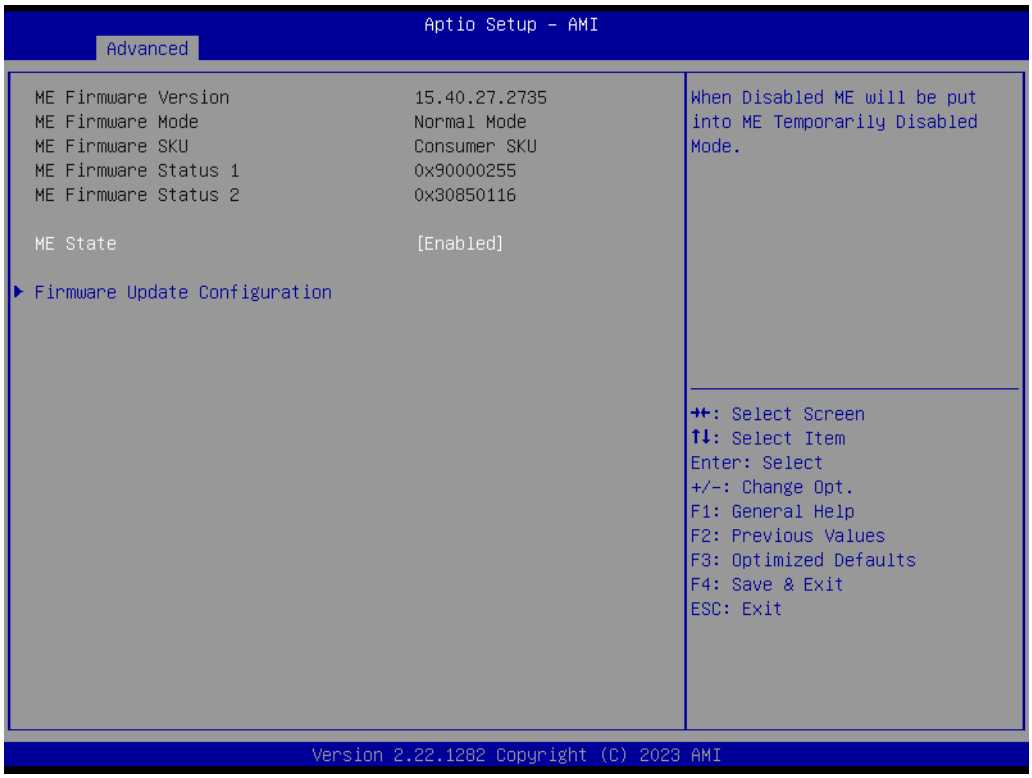
Power & Performance



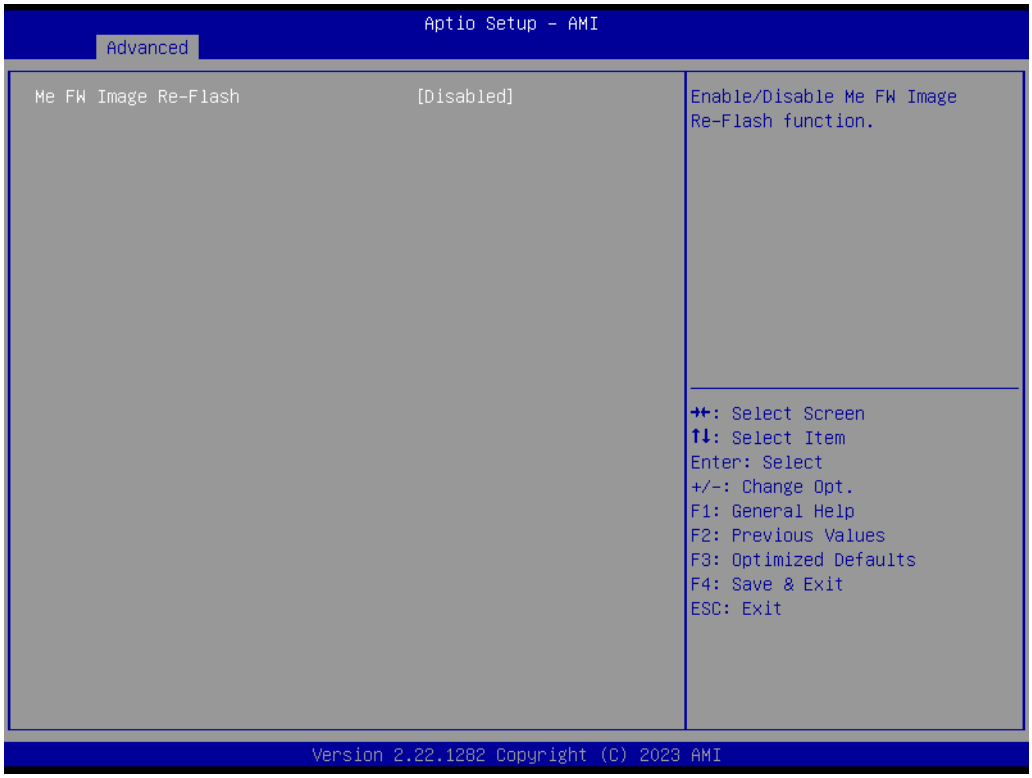
CPU - Power Management Control



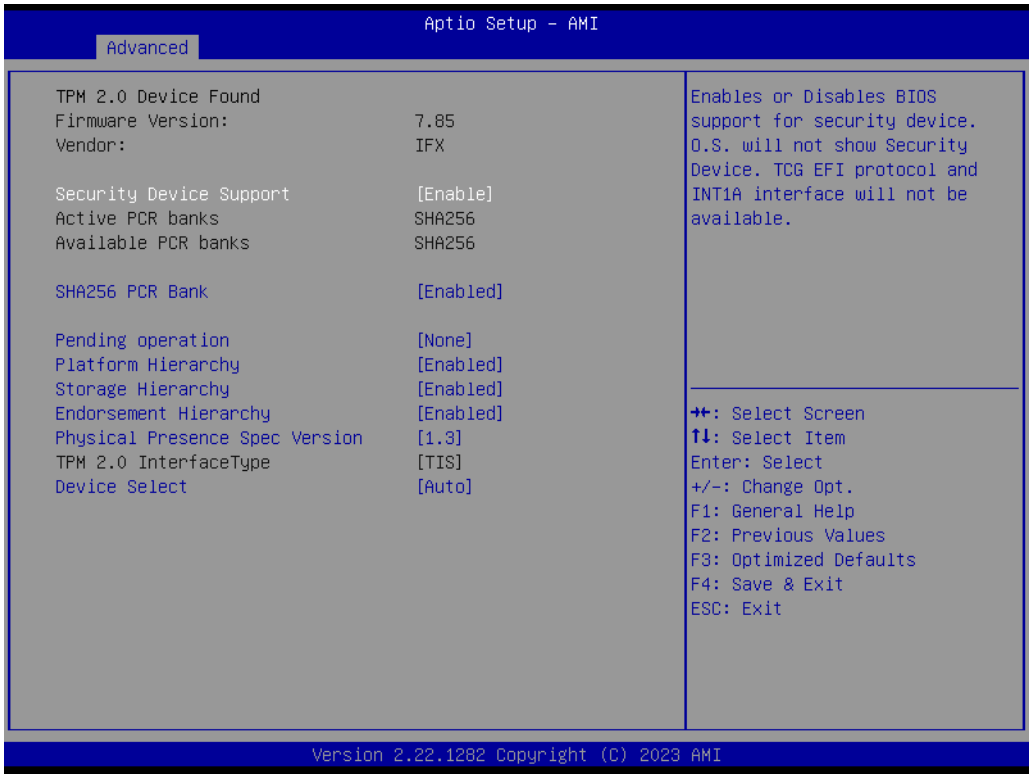
PCH-FW Configuration



Firmware Update Configuration



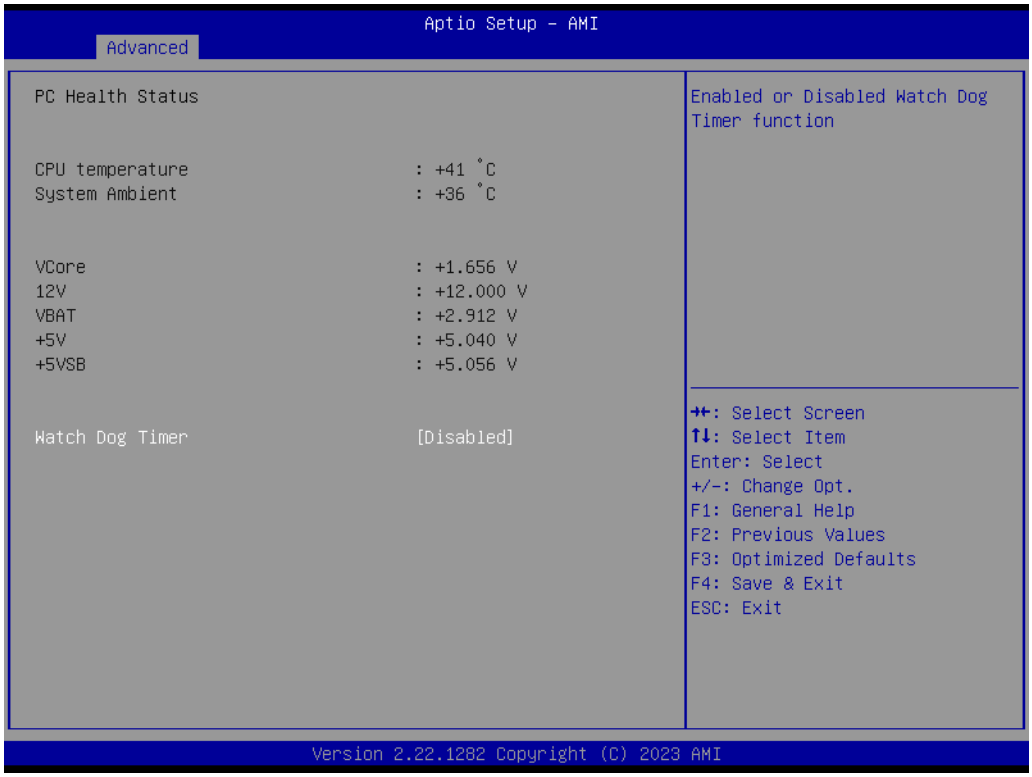
TPM



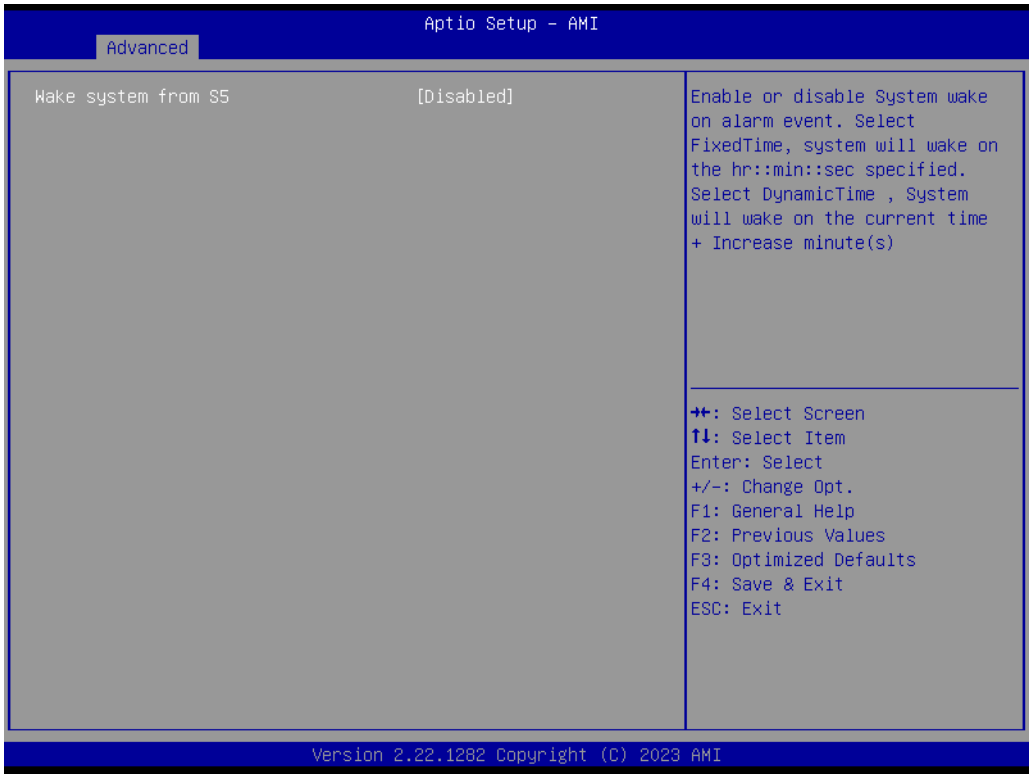
ACPI Settings

- Enable ACPI Auto Configuration [Disabled]
  Enable or disable BIOS ACPI auto configuration.
- Enable Hibernation [Enabled]
  Enables or Disables System ability to Hibernate. This option may be not effective with some OS.
- ACPI Sleep State [S3(Suspend to RAM)]
  Select ACPI sleep state the system will enter when the SUSPEND button is pressed.

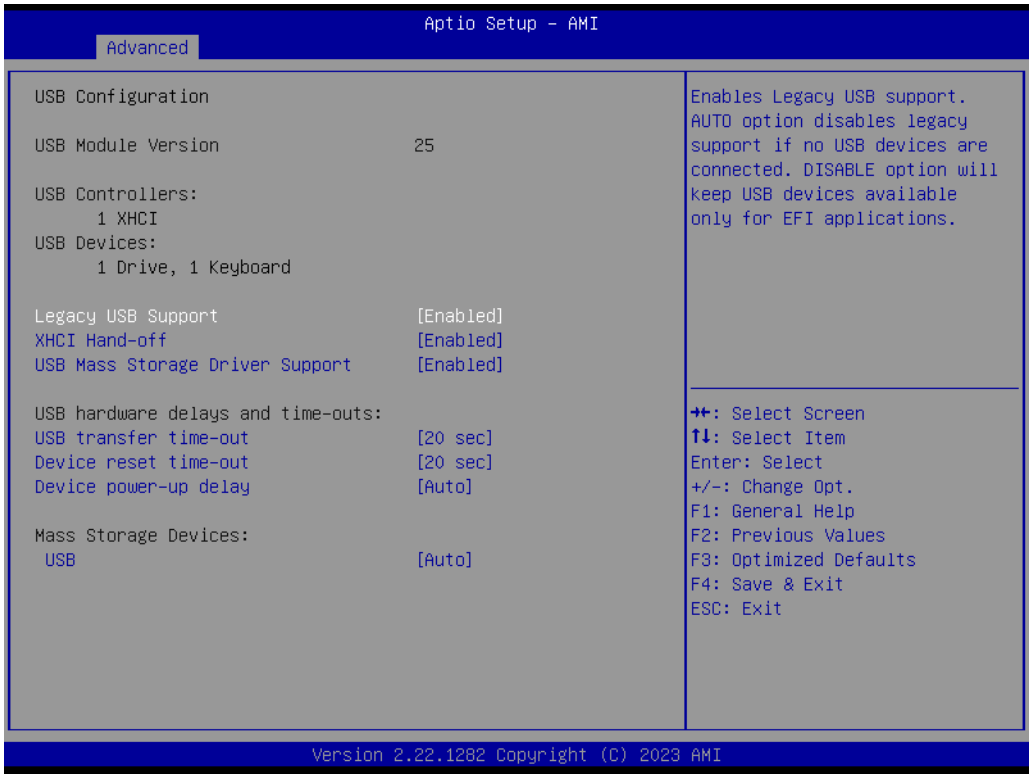
Hardware Monitor



S5 RTC Wake Settings



USB Configuration



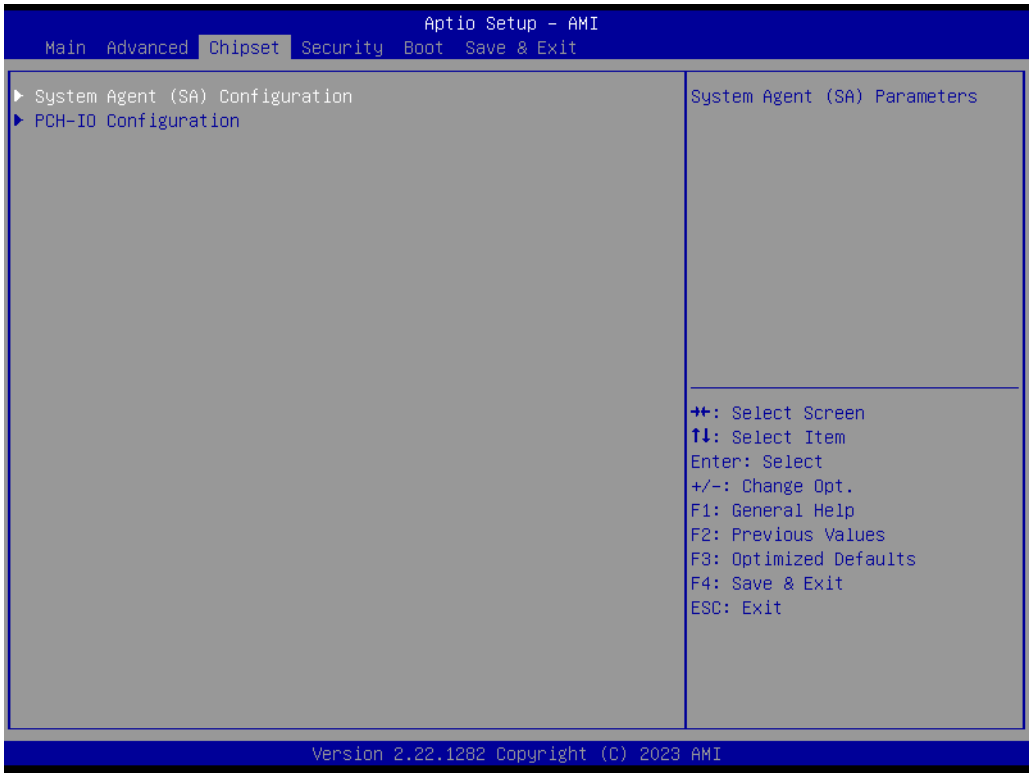
- Legacy USB Support [Enabled]
  Enables support for legacy USB. Auto option disables legacy support if no USB devices are connected.
- XHCI Hand-off [Enabled]
- USB Mass Storage Driver Support. [Enabled]
- Mass Storage Devices [Auto]
  Shows USB mass storage device information.

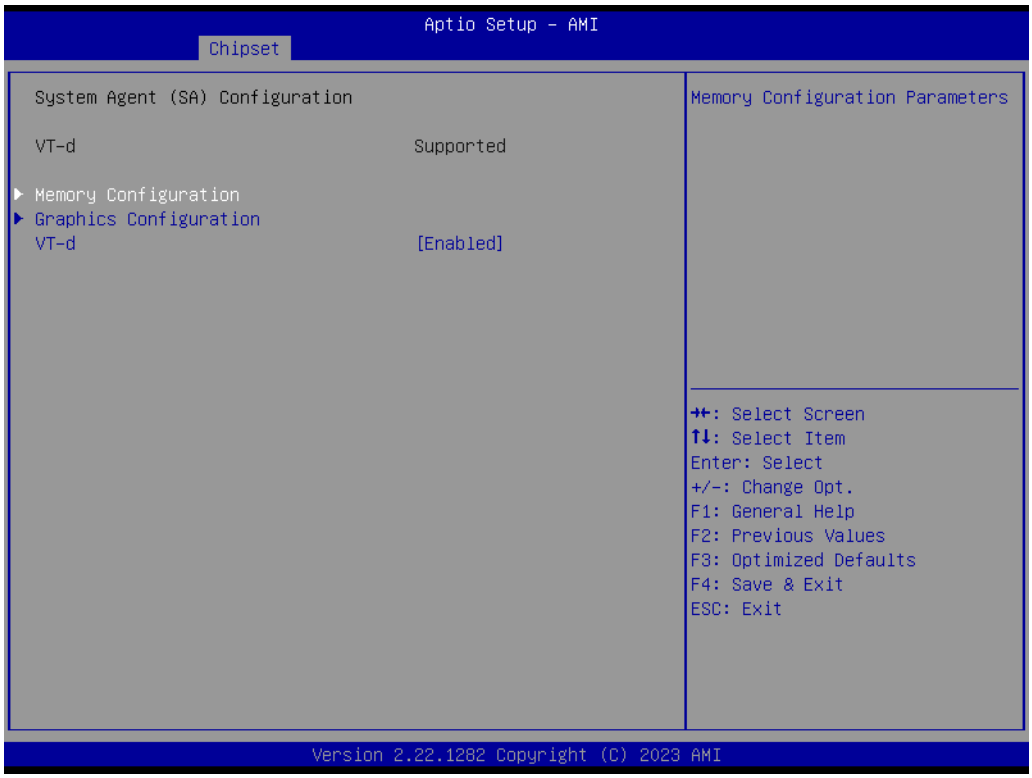
Network Stack Configuration

2.4.2.3 Chipset Configuration Setting

Select the chipset tab from the BIOS setup screen to enter the Chipset Setup screen.

Users can select any item in the left frame of the screen, The Chipset Setup screens are shown below. The submenus are described on the following pages.




Aptio Setup – AMI
Chipset
System Agent (SA) Configuration
VT-d Supported
Memory Configuration
Graphics Configuration
VT-d [Enabled]
Memory Configuration Parameters
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
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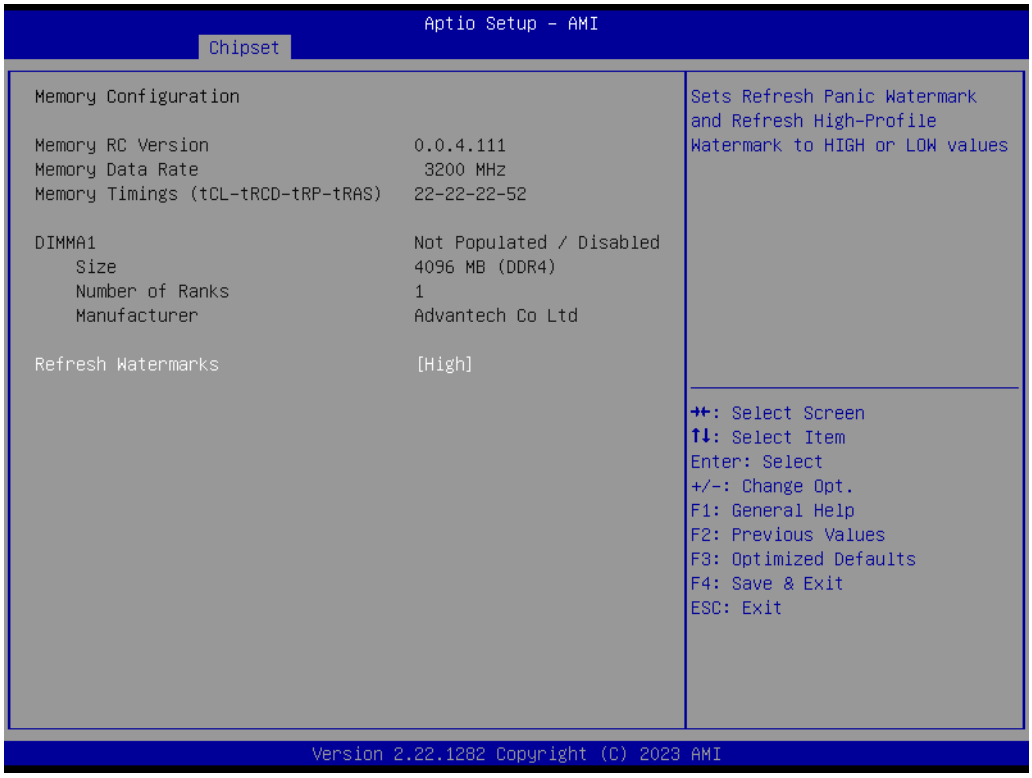
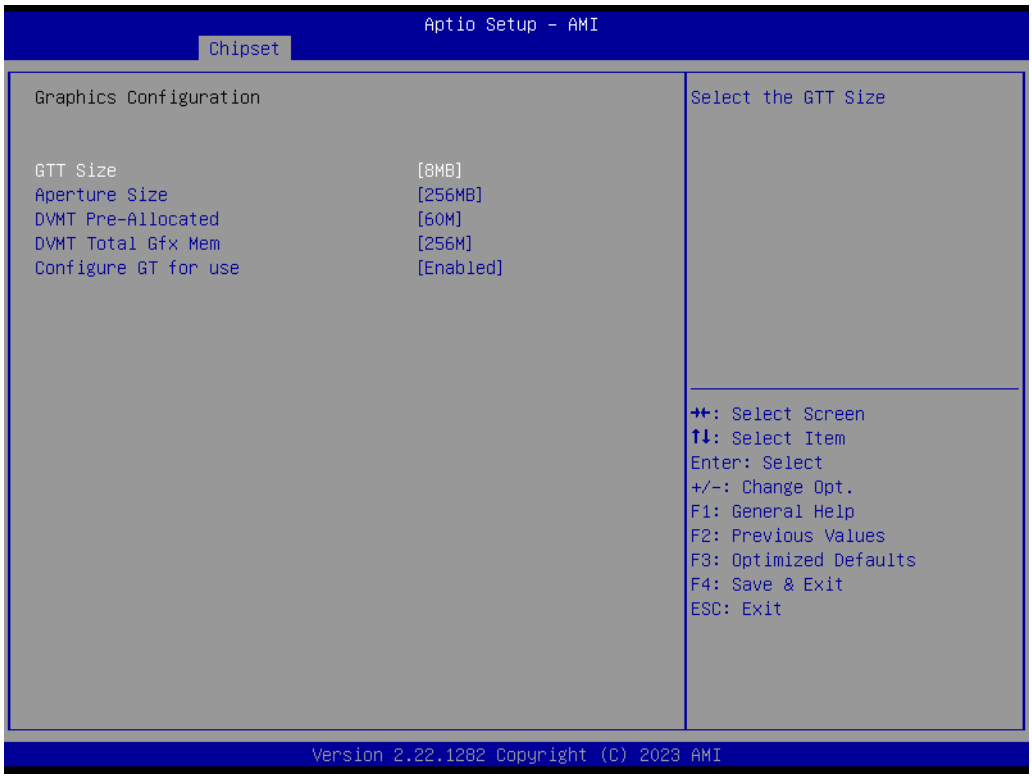
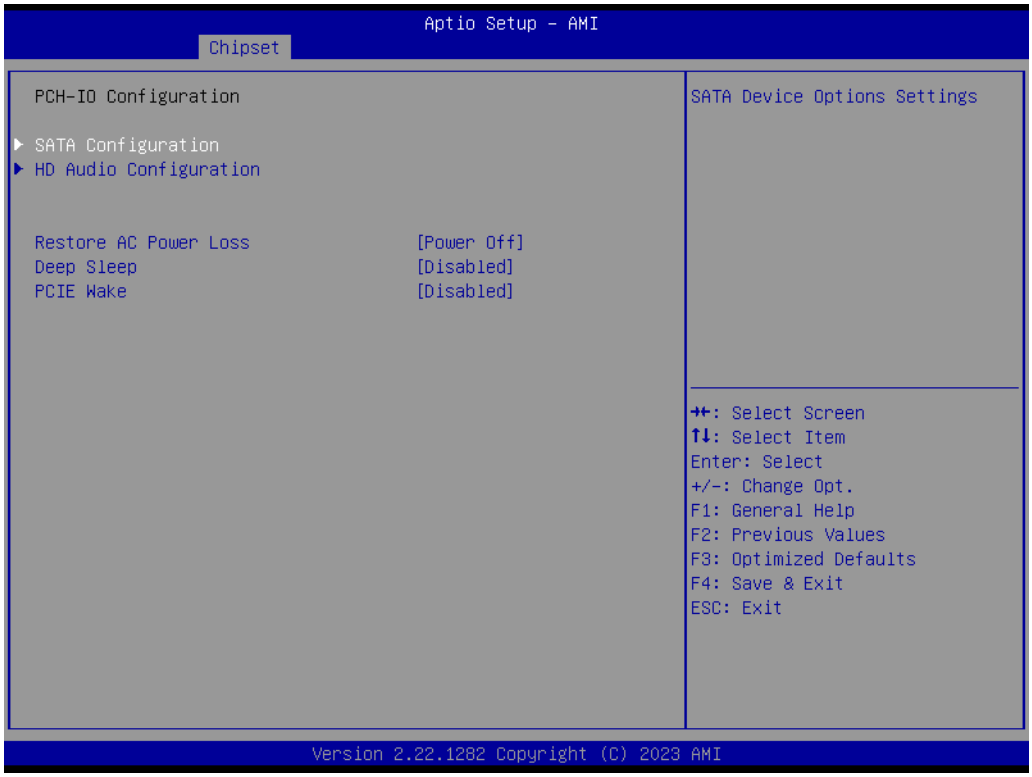
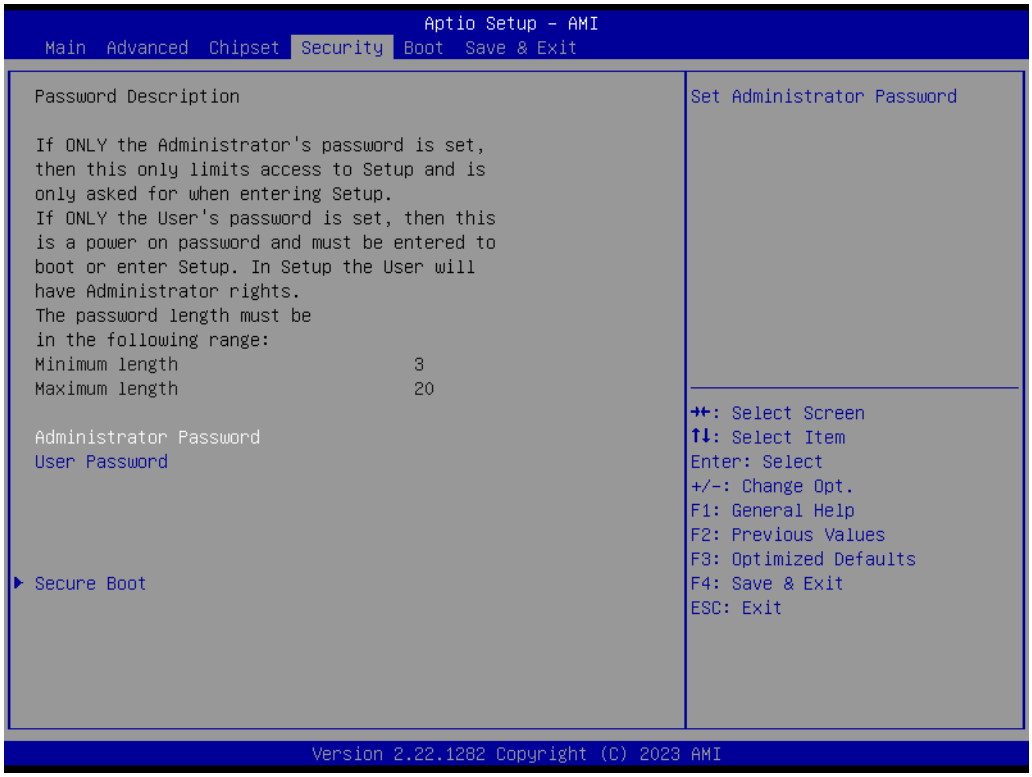

Aptio Setup – AMI
Chipset
Memory Configuration
Memory RC Version 0.0.4.111
Memory Data Rate 3200 MHz
Memory Timings (tCL-tRCD-tRP-tRAS) 22-22-22-52
DIMMA1 Not Populated / Disabled
Size 4096 MB (DDR4)
Number of Ranks 1
Manufacturer Advantech Co Ltd
Refresh Watermarks [High]
Sets Refresh Panic Watermark and Refresh High-Profile Watermark to HIGH or LOW values
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit
Version 2.22.1282 Copyright (C) 2023 AMI



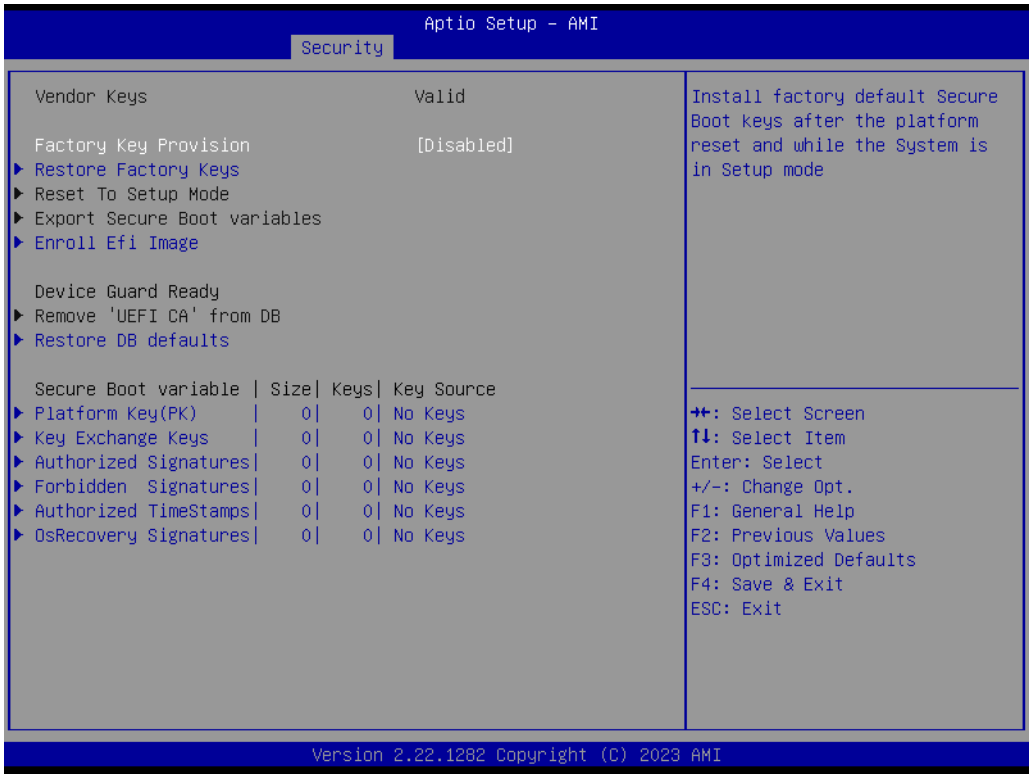


- **Restore AC Power Loss [Power off]**
  AC power loss power off/Power on
- **PCIE Wake [Enable]**
  Enable or disable Wake on LAN function

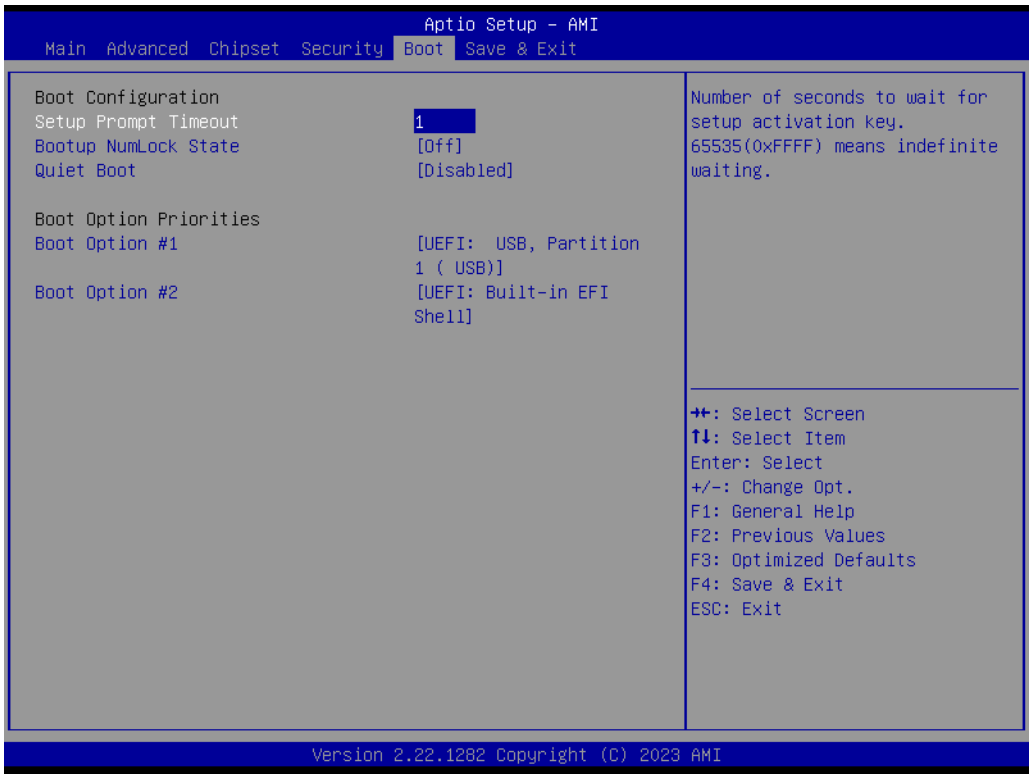
2.4.2.4 Security Configuration Setting



- **Administrator Password**
  Select this option and press <ENTER> to access the sub menu, and then type in the password. Set the Administrator password.
- **User Password**
  Select this option and press <ENTER> to access the sub menu, and then type in the password. Set the User Password.

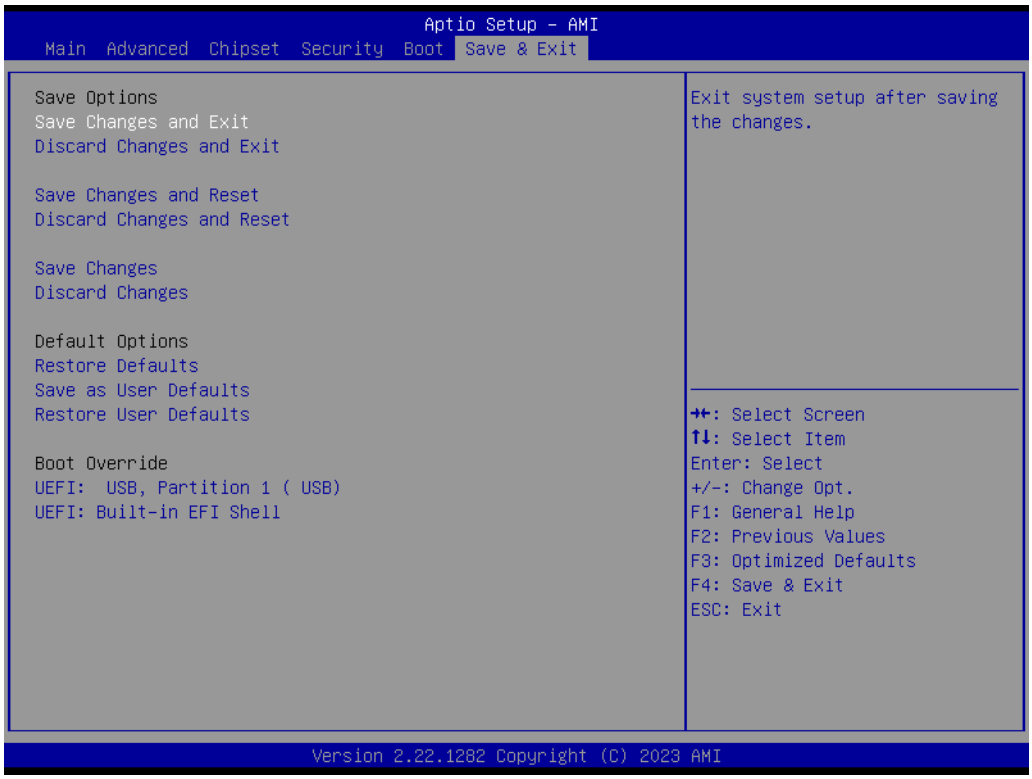


2.4.2.5 Boot Configuration



- **Setup Prompt Timeout**
  User the <+> and <-> keys to adjust the number of seconds to wait for setup activation key.
- **Bootup NumLock State [On]**
  On or Off power on state for the NumLock
- **Boot Option #1/#2/#3**
  Choose boot priority from boot device

2.4.2.6 Save & Exit Configuration Setting



- **Save Changes and Reset**
  When users have completed system configuration, select this option to save changes, exit BIOS setup menu and reboot the computer to take effect all system configuration parameters.
  1. Select Exit Saving Changes from the Exit menu and press <Enter>. The following message appears: Save Configuration Changes and Exit Now? [Ok] [Cancel]
  2. Select Ok or cancel.
- **Discard Changes and Reset**
  Select this option to quit Setup without making any permanent changes to the system configuration1. Select Reset Discarding Changes from the Exit menu and press <Enter>.
  The following message appears: Discard Changes and Exit Setup Now? [Ok] [Cancel]
  1. Select Ok to discard changes and reset. Discard Changes.
     Select Discard Changes from the Exit menu and press <Enter>.
- **Restore Default**
  The BIOS automatically configures all setup items to optimal settings when users select this option. Defaults are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Defaults if the user's computer is experiencing system configuration problems. Select Restore Defaults from the Exit menu and press <Enter>.
- **Boot Override**
  Shows the boot device types on the system.

2.5 USC-360N BIOS Setup

2.5.1 Introduction

With the AMI BIOS Setup program, you can modify BIOS settings to control the special features of your computer. The Setup program uses a number of menus for making changes. This chapter describes the basic navigation of the USC-360N setup screens.

2.5.2 BIOS Setup

The USC-360N Series system has AMI BIOS built in, with a SETUP utility that allows Users to configure required settings or to activate certain system features.

The SETUP saves the configuration in the FLASH of the motherboard. When the Power is turned off, the battery on the board supplies the necessary power to

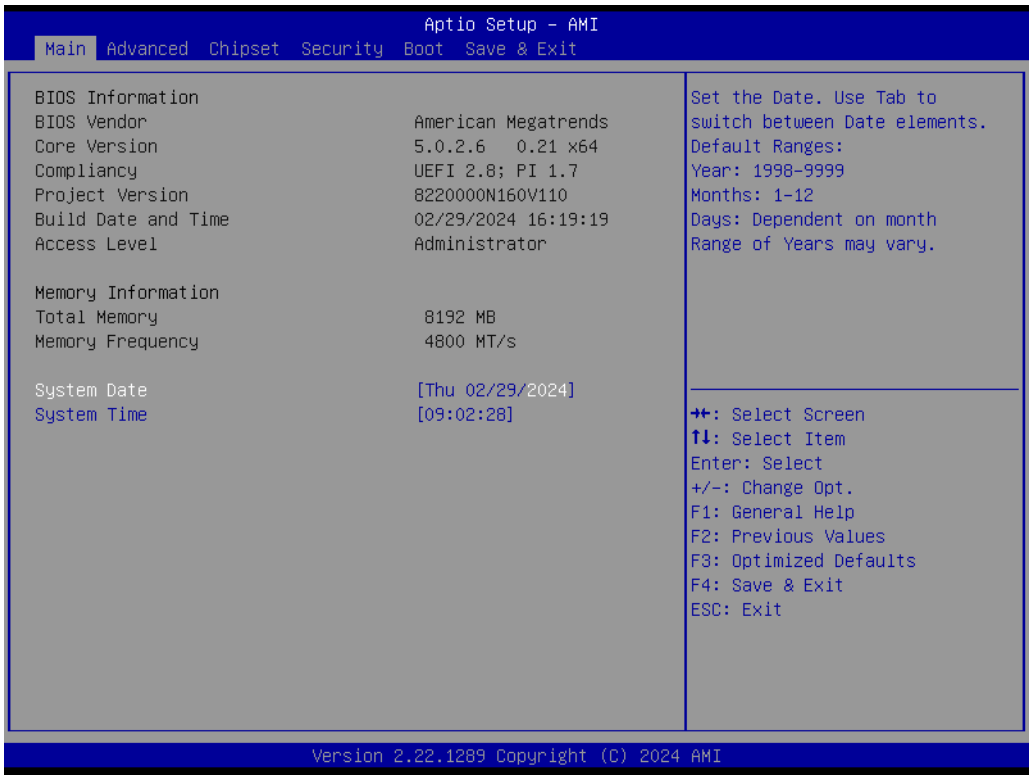
preserve the FLASH.When the power is turned on, press the <Del> or <Esc> button during the BIOS POST (Power-On Self Test) to access the CMOS SETUP screen.

Table 2.3: Control Keys

← >< → >	Select Screen
< ↑ >< ↓ >	Select Item
<Enter>	Select
<+/->	Change Opt
<F1>	General help
<F2>	Previous Values
<F3>	Optimized Defaults
<F4>	Save & Exit
<Esc>	Exit

2.5.2.1 Main Menu

Press <Del> or <Esc> to enter AMI BIOS CMOS Setup Utility, the Main Menu will appear on the screen. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.



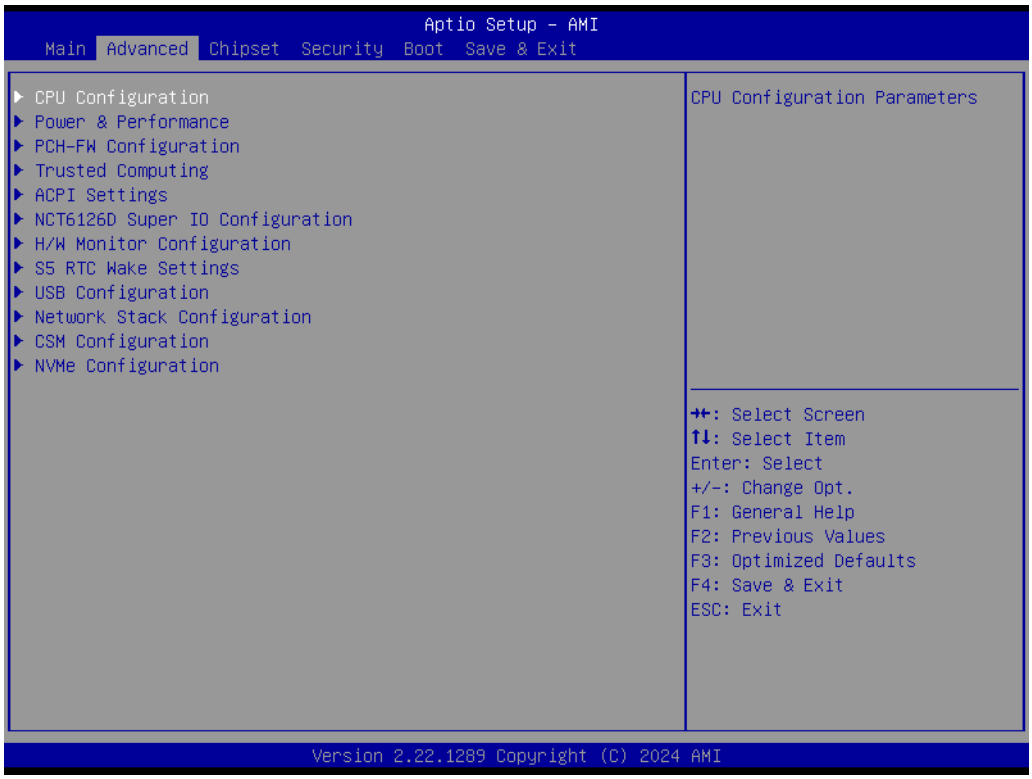
The Main BIOS setup screen has two mainframes. The left frame displays all the options that can be configured. Grayed-out options cannot be configured; options in blue can. The right frame displays the key legend.

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.

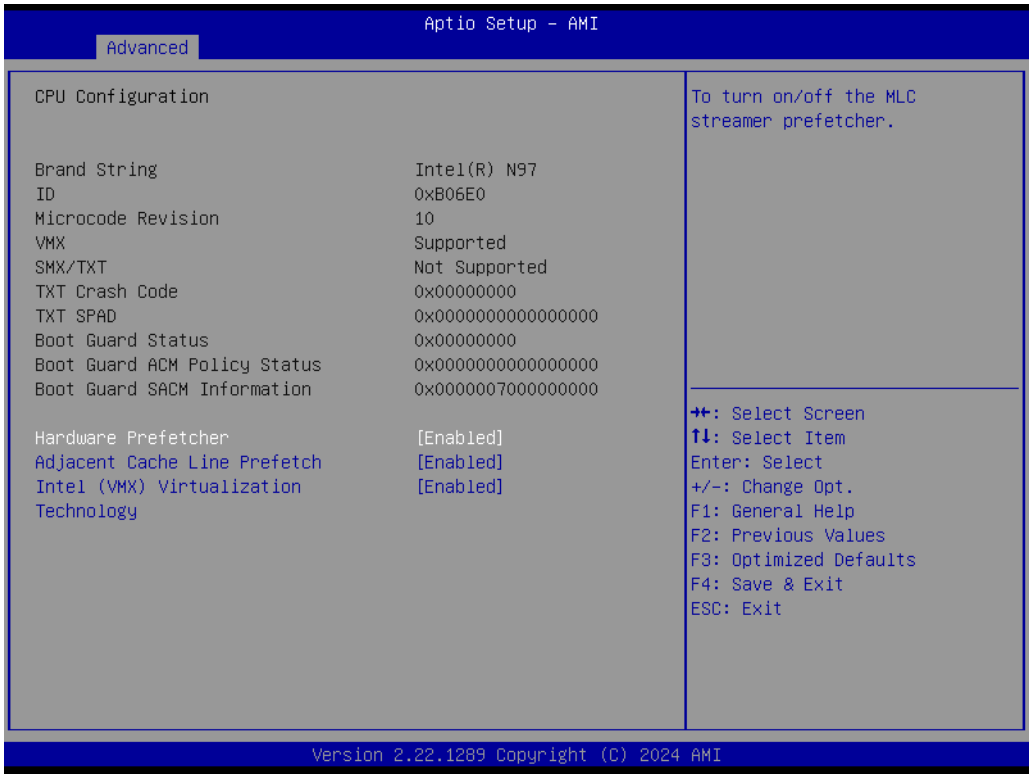
- **System time/System date**
  Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time must be entered in HH:MM:SS format.

2.5.2.2 Advanced BIOS Features

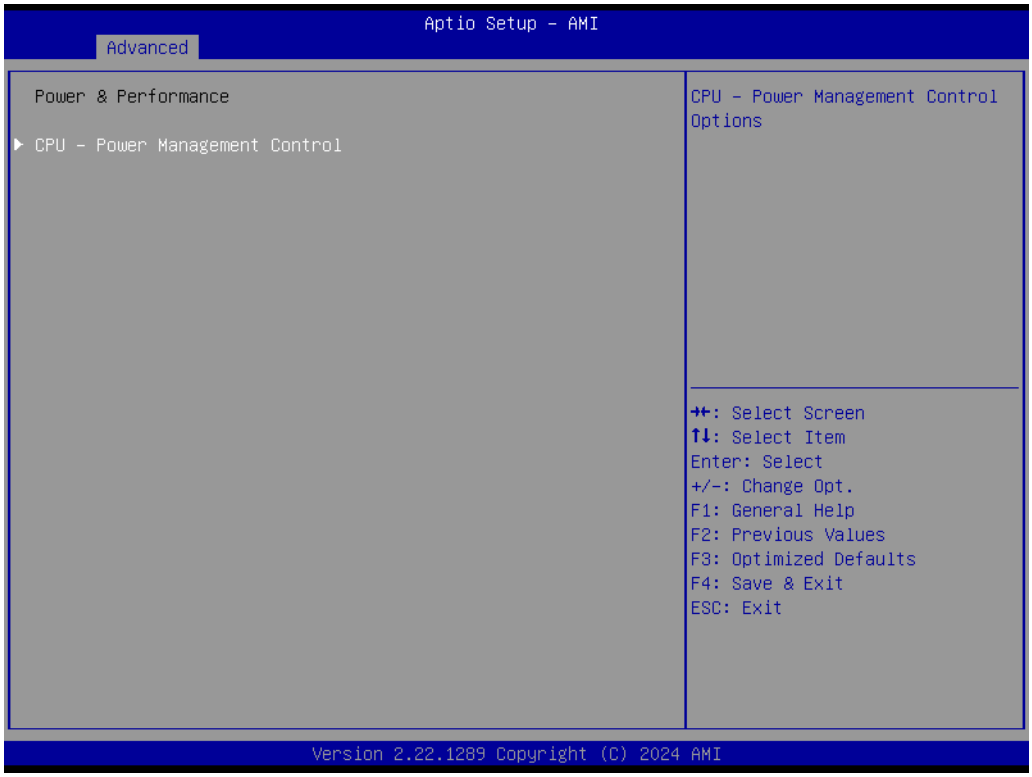
Select the Advanced tab from the setup screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as CPU Configuration, to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. 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.



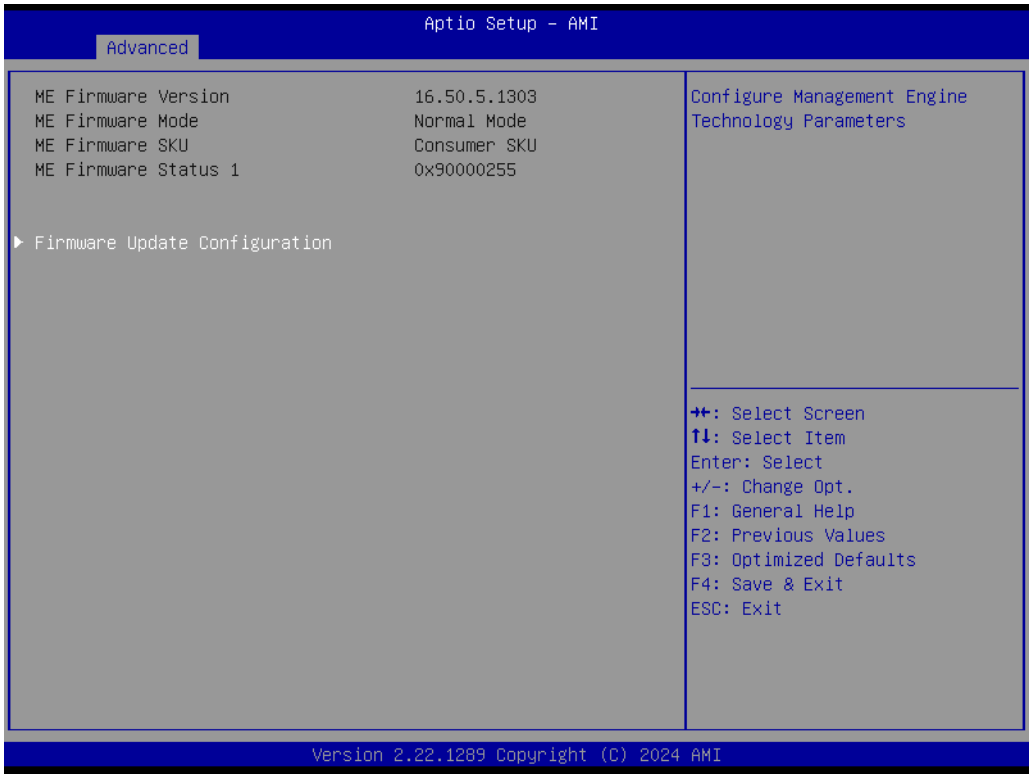
2.5.2.2.1 CPU Configuration



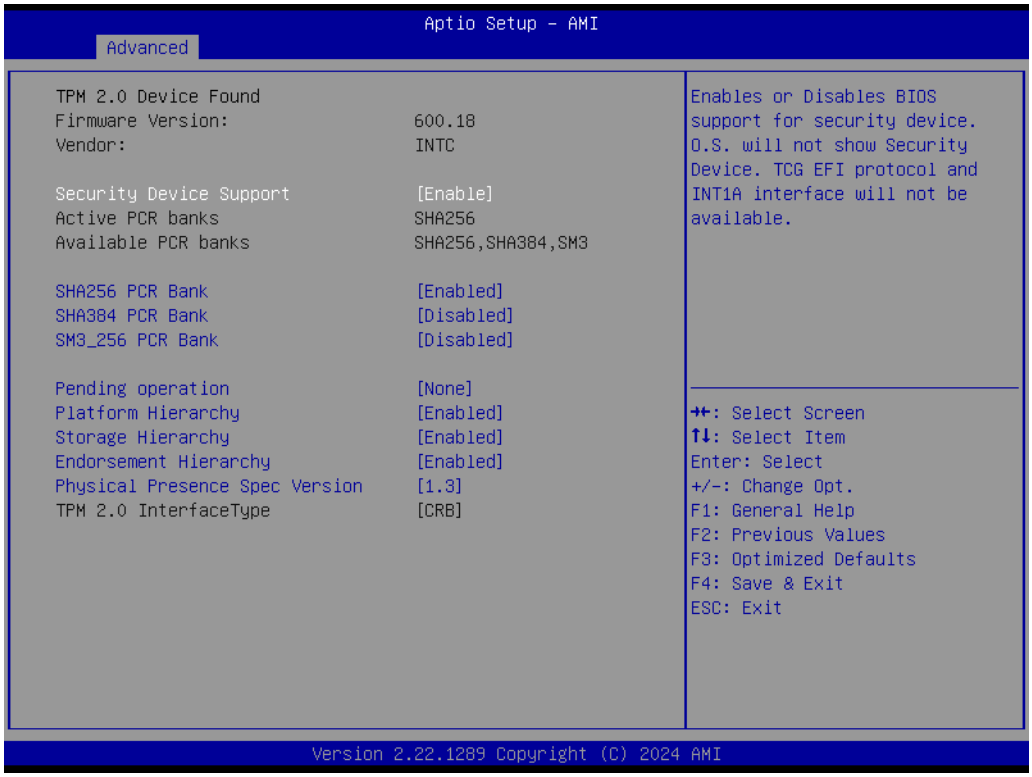
2.5.2.2.2 Power & Performance



2.5.2.2.3 PCH-FW Configuration

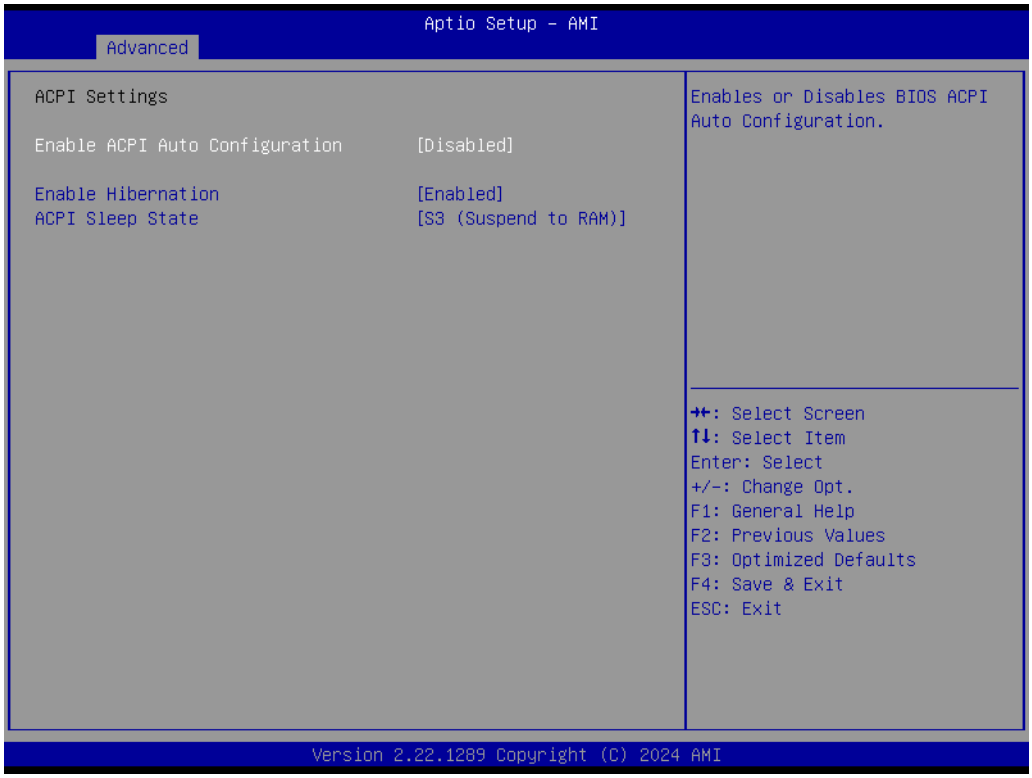


2.5.2.2.4 Trusted Computing



- **Security Device Support [Enable]**
  Enable or disable BIOS support for security device.

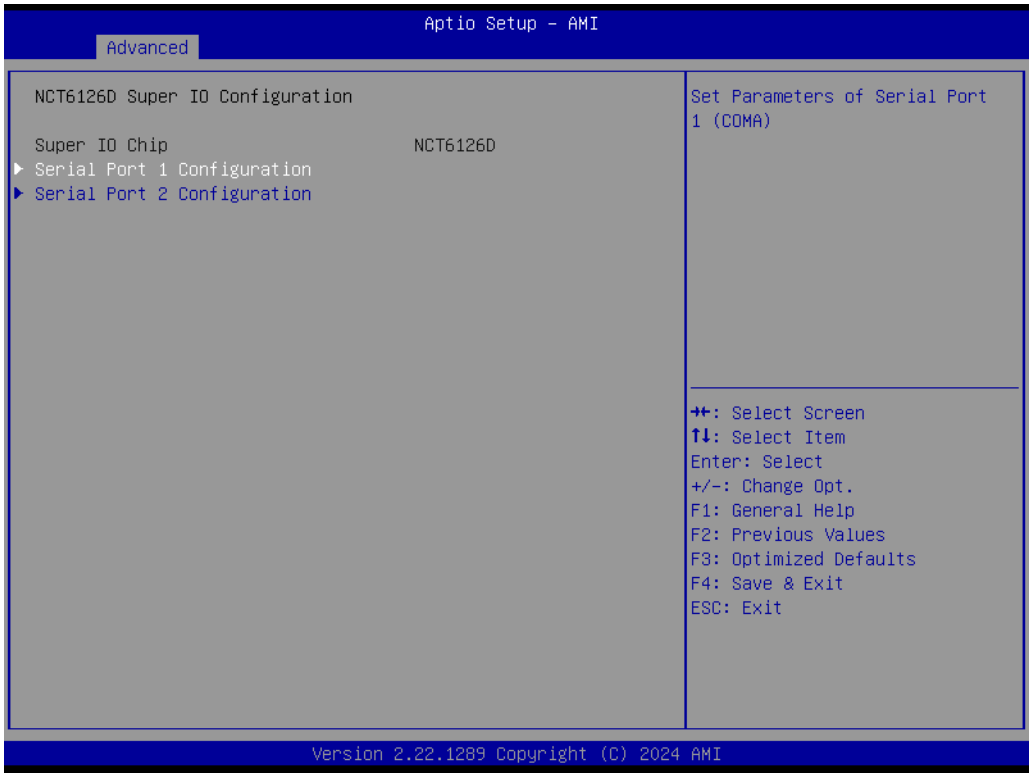
2.5.2.2.5 ACPI Settings



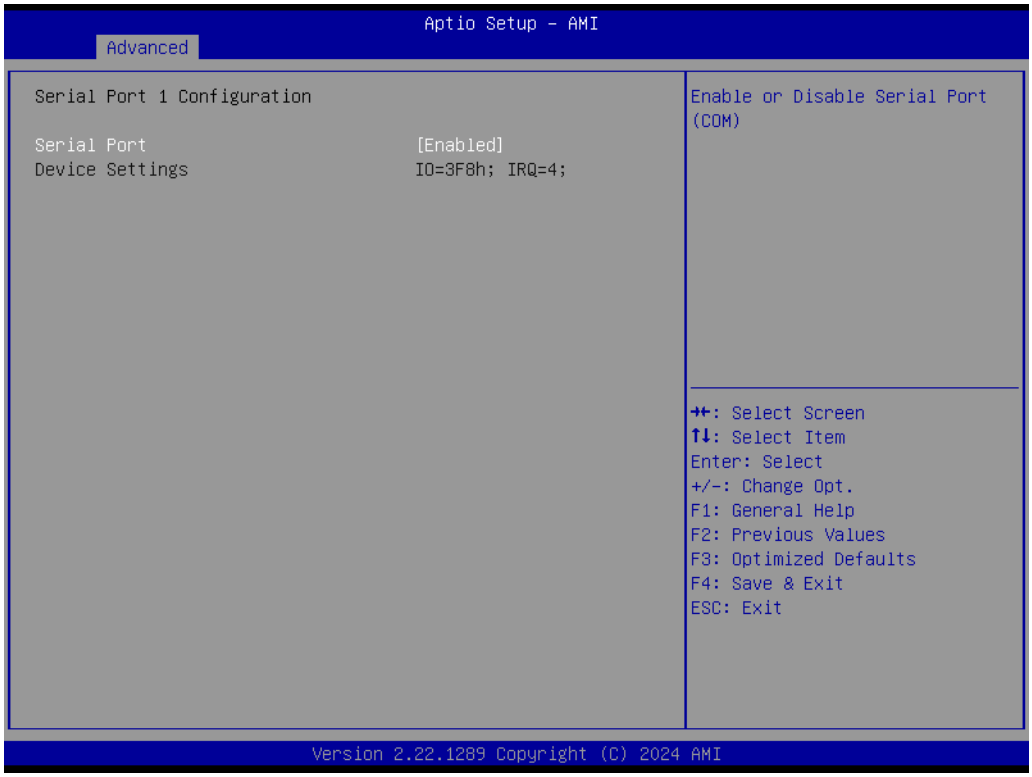
- **Enable ACPI Auto Configuration [Disabled]**
  Enable or disable BIOS ACPI auto configuration.
- **Enable Hibernation [Enabled]**
  Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not effective with some OS.
- **ACPI Sleep State [S3(Suspend to RAM)]**
  Select ACPI sleep state the system will enter when the SUSPEND button is pressed.

2.5.2.2.6 NCT6126D Super Configuration

- **Super IO Chip [NCT6126D]**

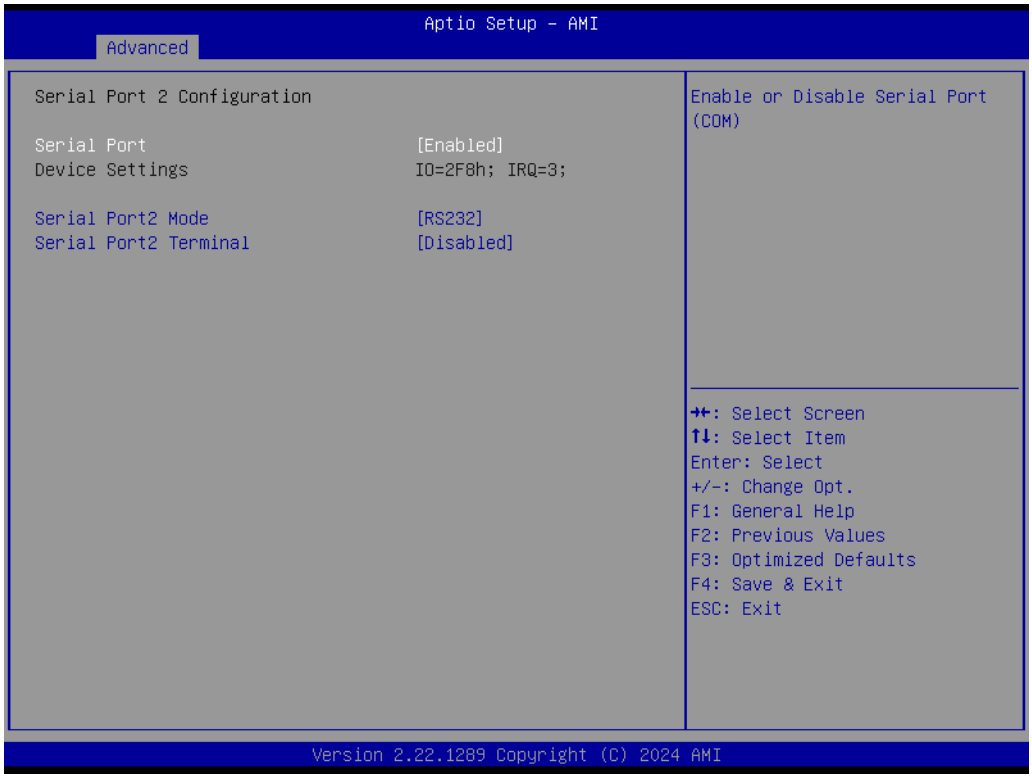


- **Serial Port 1 Configuration**



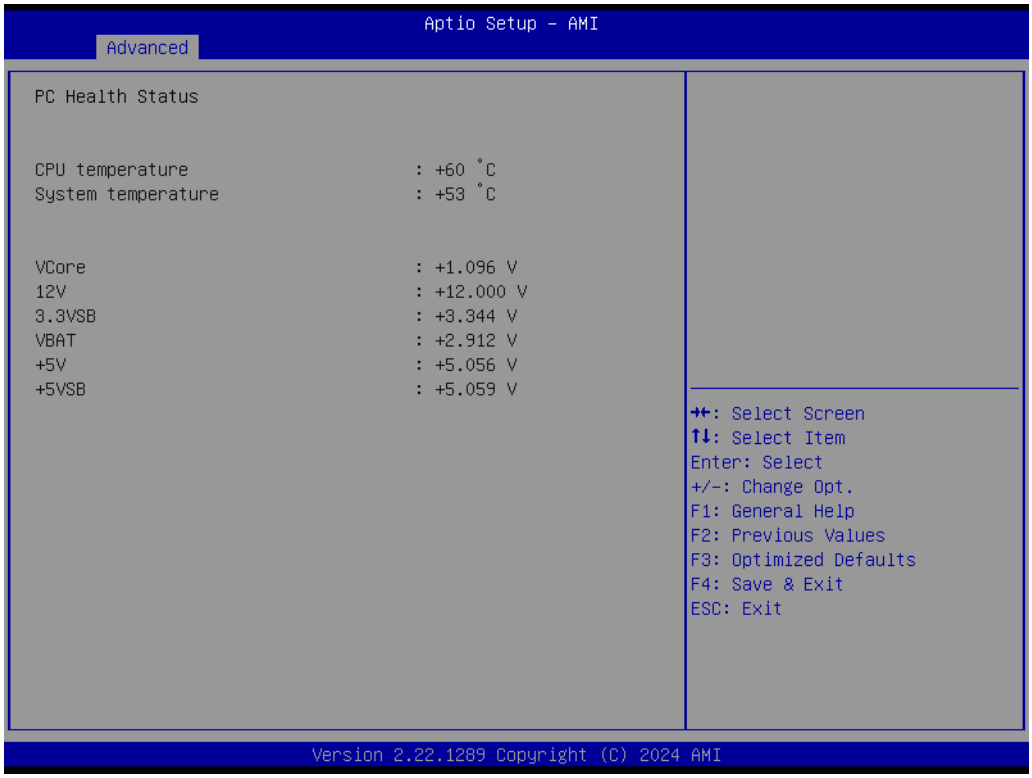
  - Serial Port [Enabled]
  - Device Settings: IO=3F8h; IRQ =4

Serial Port 2 Configuration

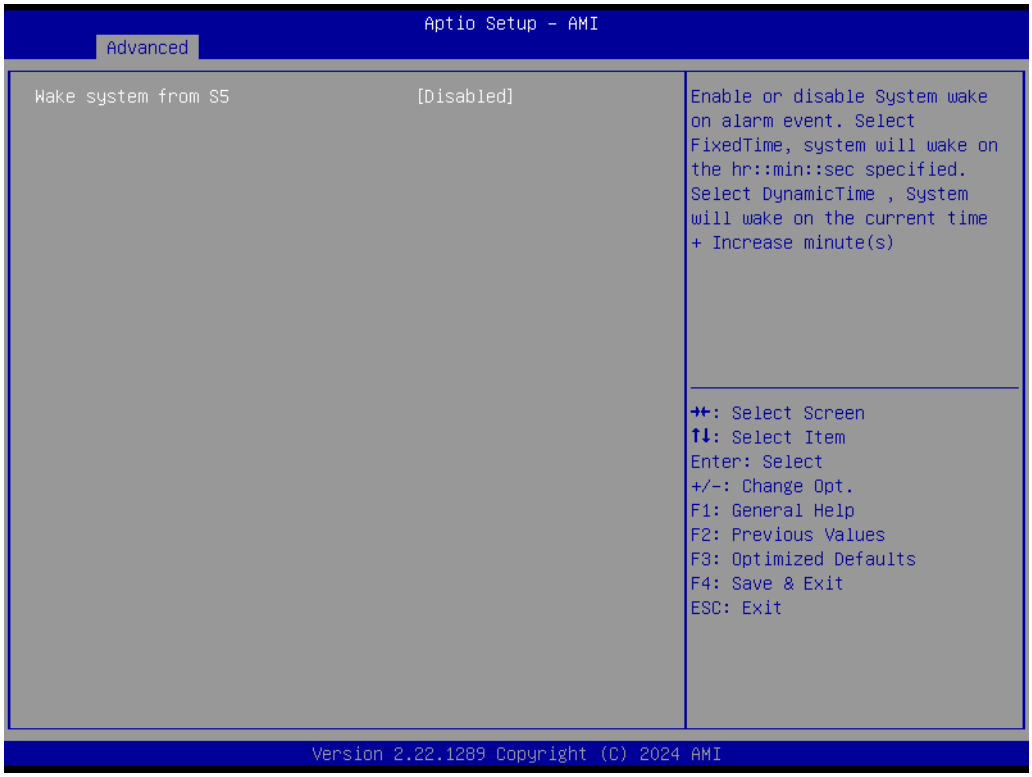


- Serial Port [Enabled]
- Device Settings: IO=2F8h; IRQ 3

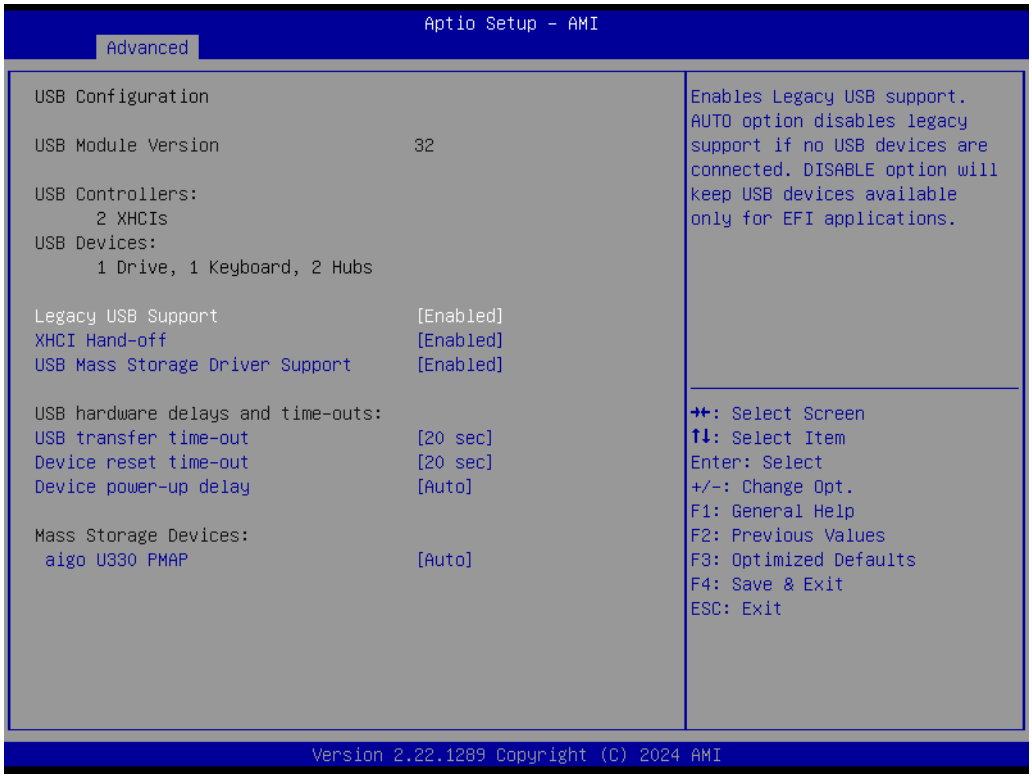
2.5.2.2.7 H/W Monitor Configuration



2.5.2.2.8 S5 RTC Wake Settings

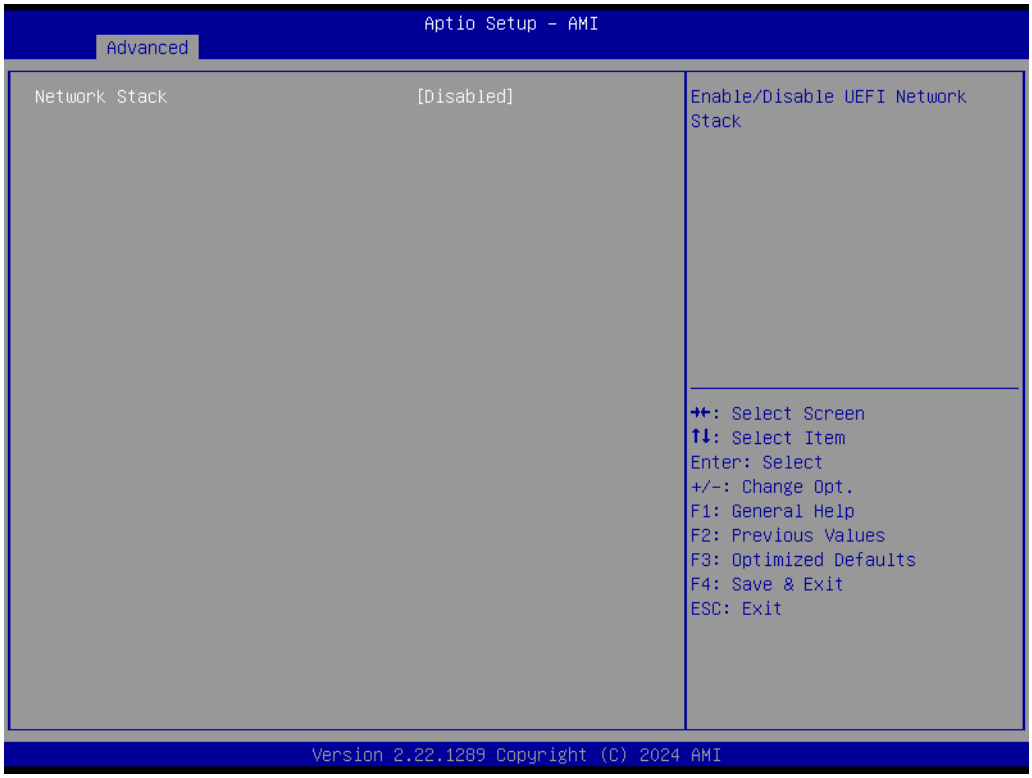


2.5.2.2.9 USB Configuration

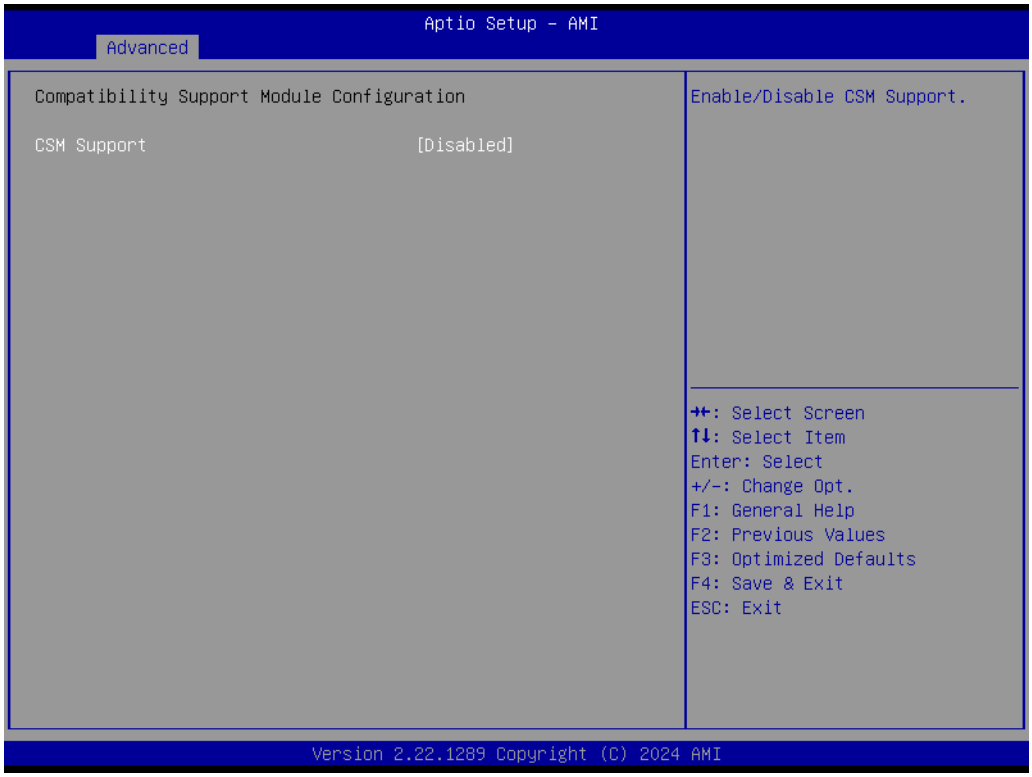


- **Legacy USB Support [Enabled]**
  Enables support for legacy USB. Auto option disables legacy support if no USB devices are connected.
- **XHCI Hand-off [Enabled]**
- **USB Mass Storage Driver Support [Enabled]**
- **Mass Storage Devices [Auto]**
  Shows USB mass storage device information.

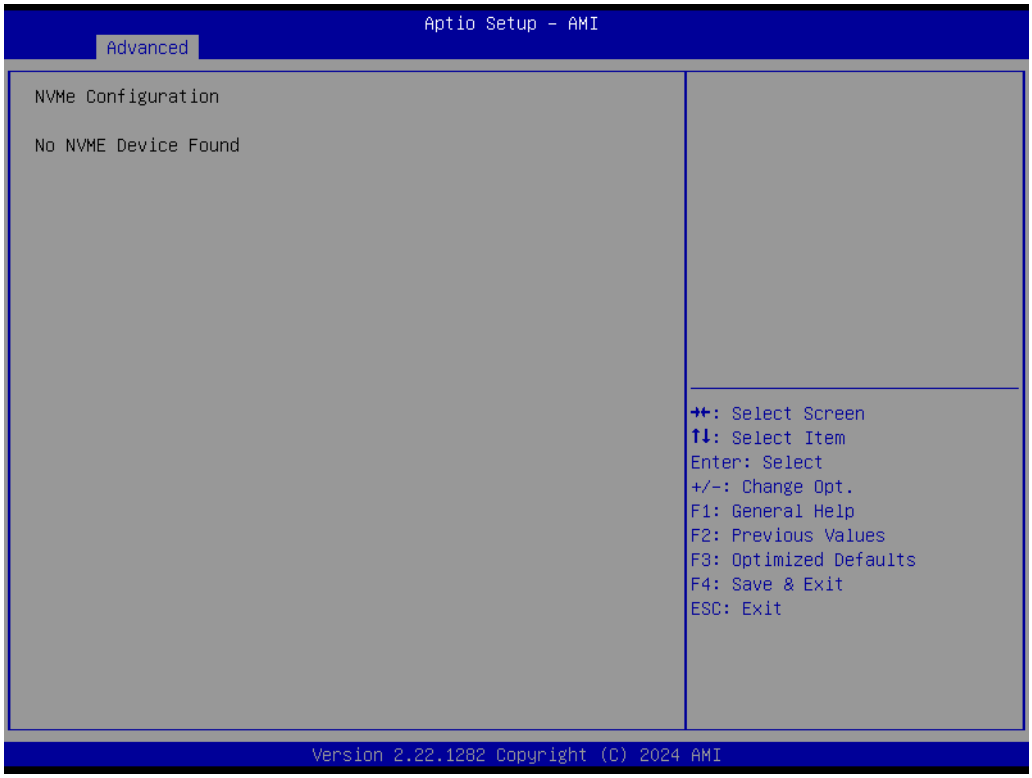
2.5.2.2.10 Network Stack Configuration



2.5.2.2.11 CSM Configuration



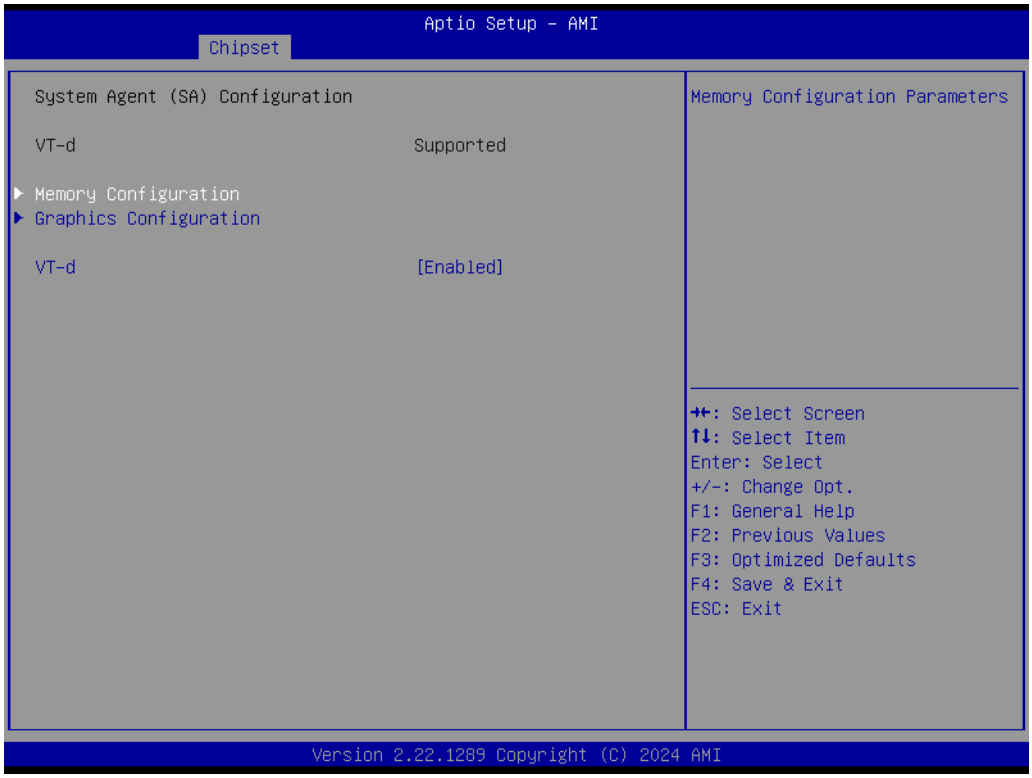
2.5.2.2.12 NVMe Configuration



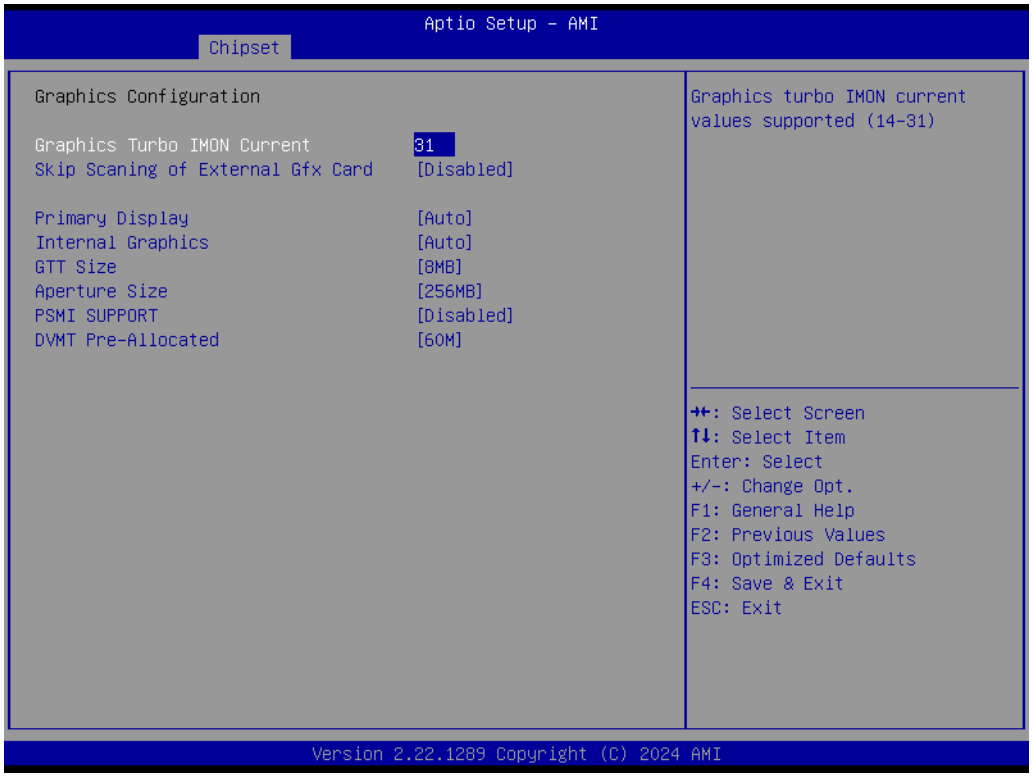
2.5.2.3 Chipset Configuration Setting

Select the chipset tab from the BIOS setup screen to enter the Chipset Setup screen. Users can select any item in the left frame of the screen, such as North Bridge Configuration to go to the sub menu for that item. The Chipset Setup screens are shown below. The submenus are described on the following pages.

2.5.2.3.1 System Agent Configuration

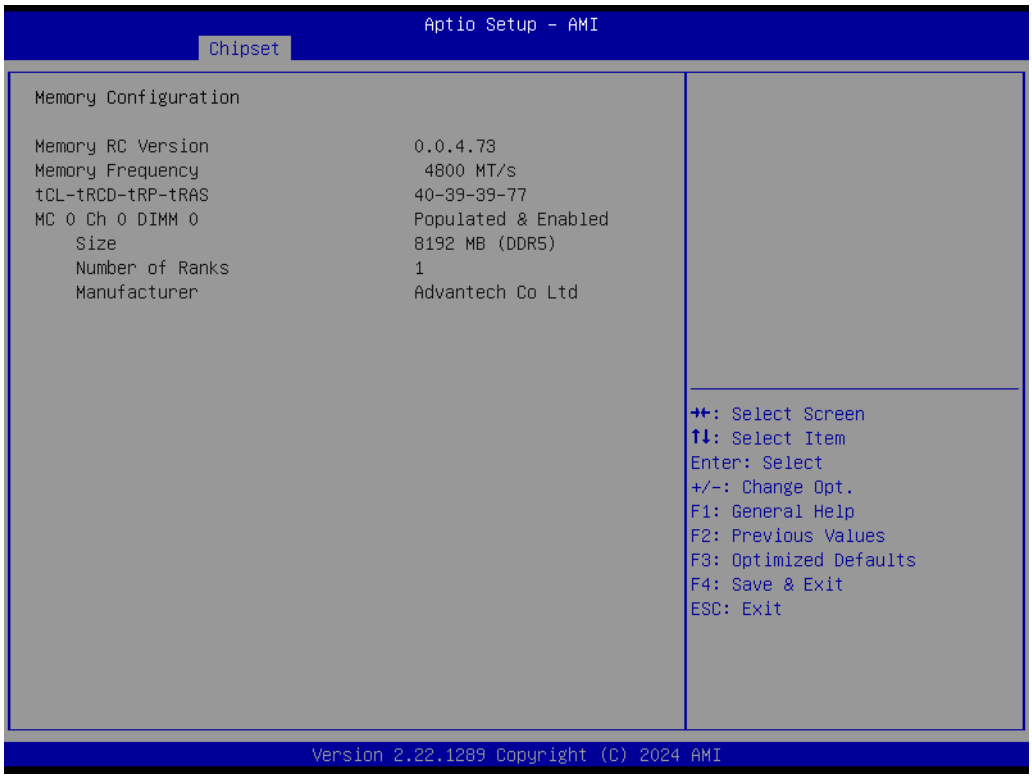


Graphics Configuration

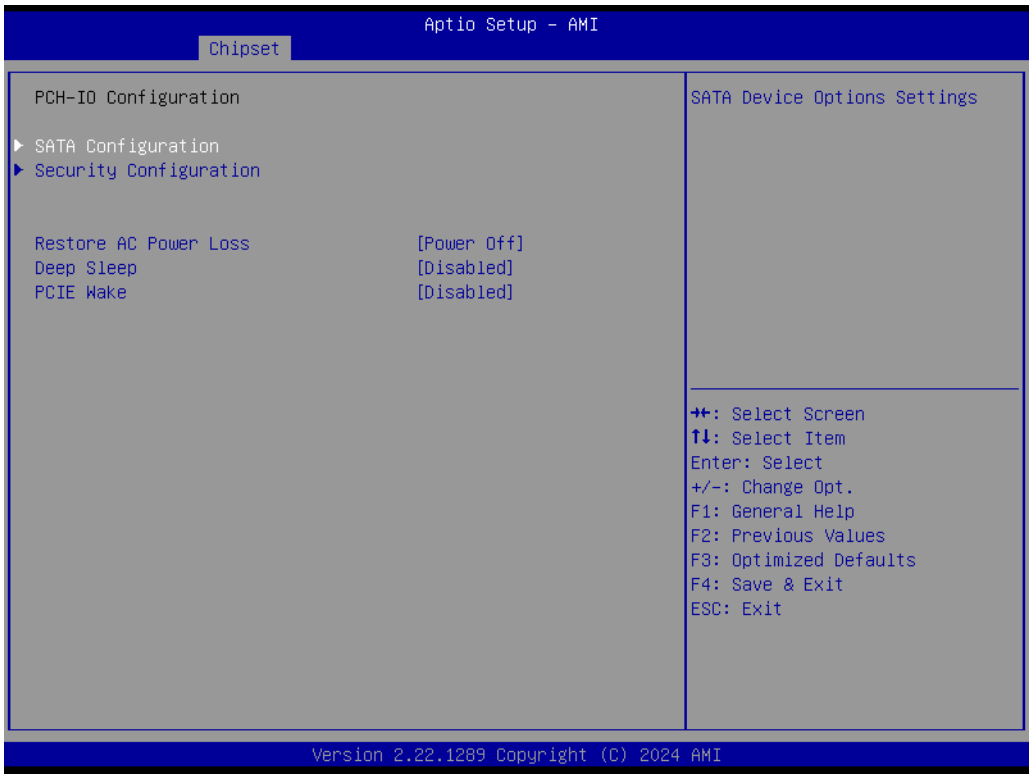


- **Graphics Turbo IMON Current [31]**
  Graphics turbo IMON current values supported (14-31).

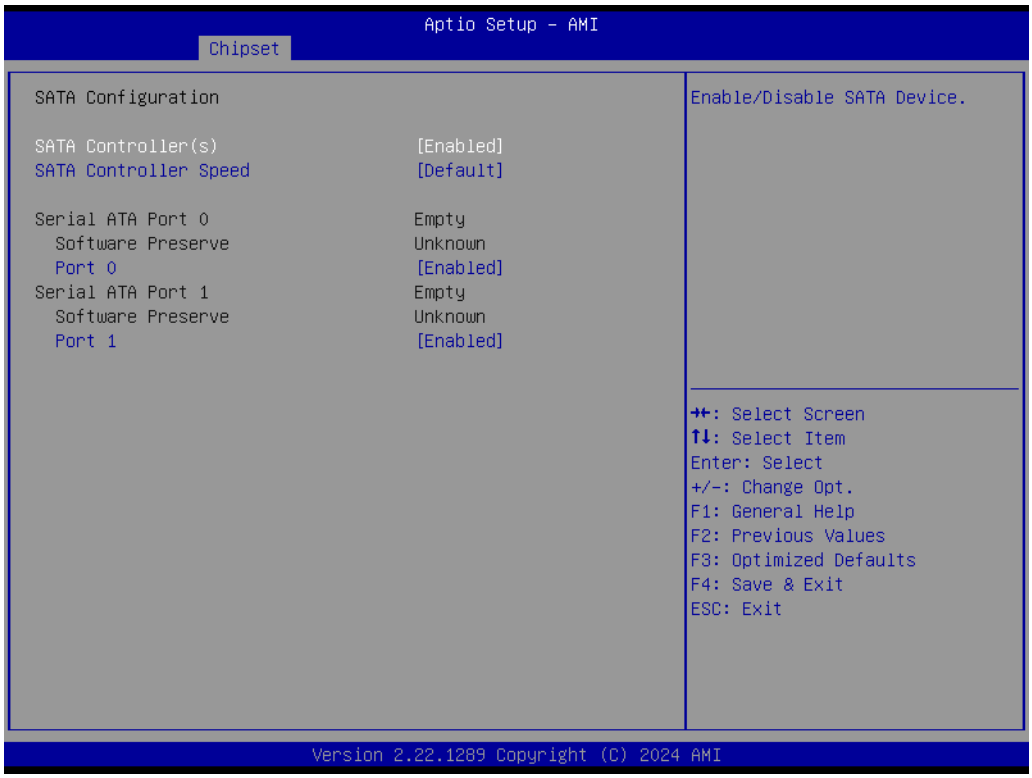
Memory Configuration



2.5.2.3.2 PCH-IO Configuration

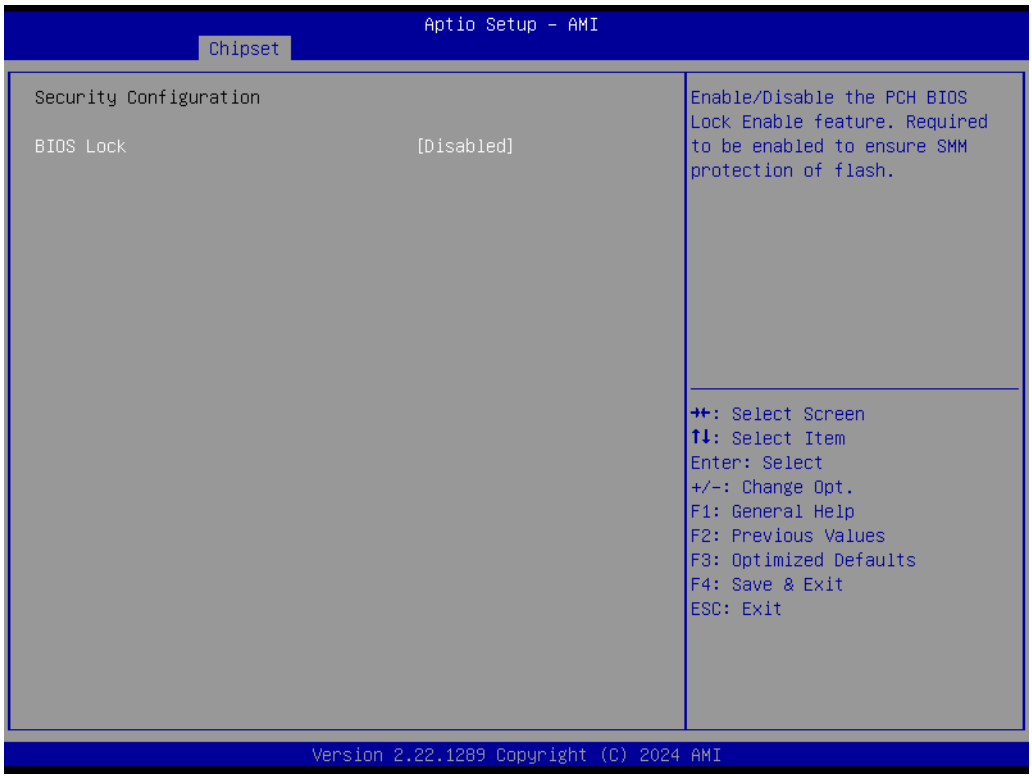


SATA Configuration

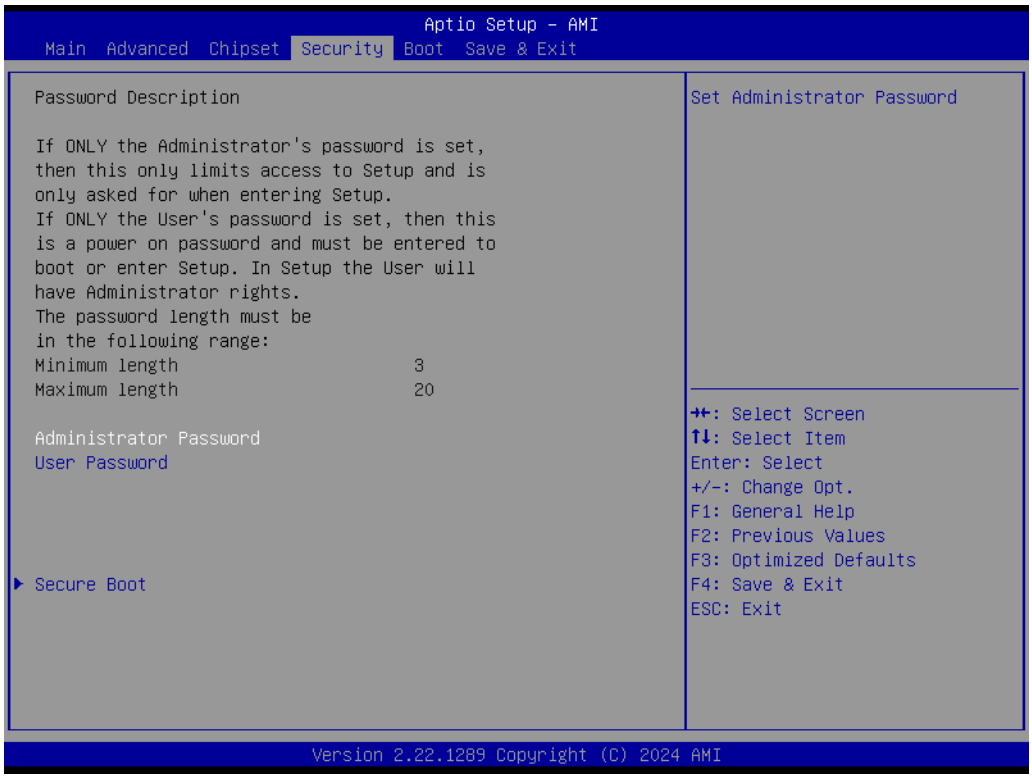


- **SATA Controller [Enable]**
  Enable or disable SATA Controller.
- **SATA Controller Speed [Default]**
  Indicate the maximum speed the SATA Controller can support, Default is GEN 3.
- **Serial-ATA Port 0 [Enable]**
  Enable or disable SATA Function.
- **Serial-ATA Port 1 [Enable]**
  Enable or disable SATA Function.

Security Configuration



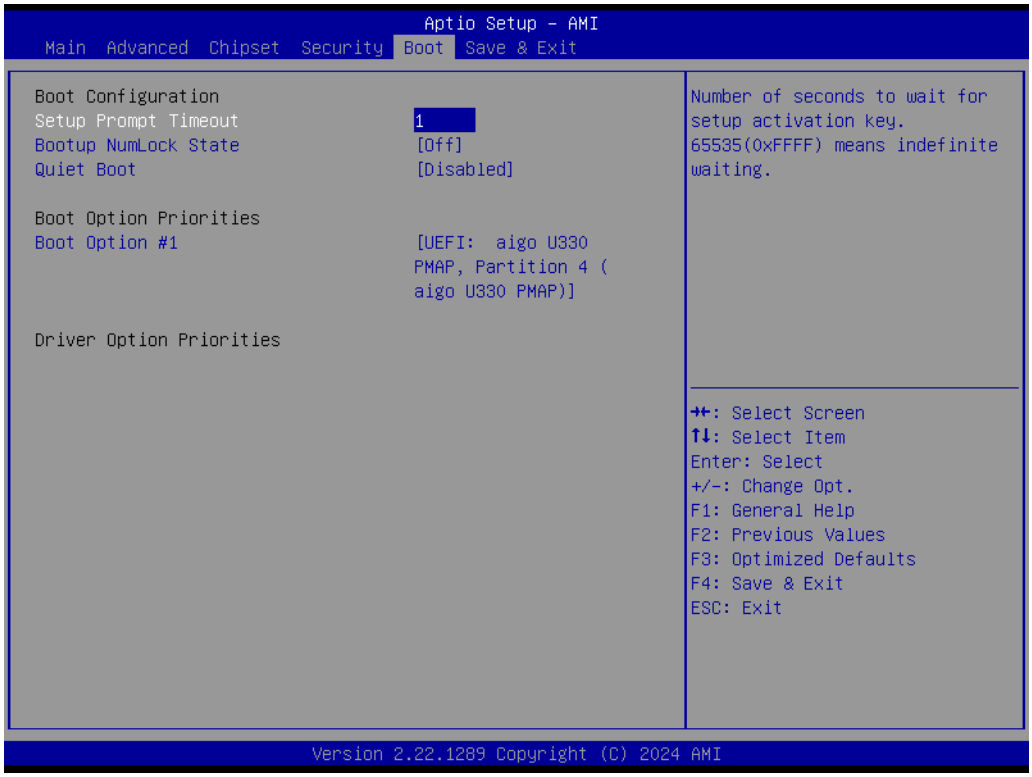
2.5.2.4 Security Configuration Setting



- **Administrator Password**
  Select this option and press <ENTER> to access the sub menu, and then type in the password. Set the Administrator password.

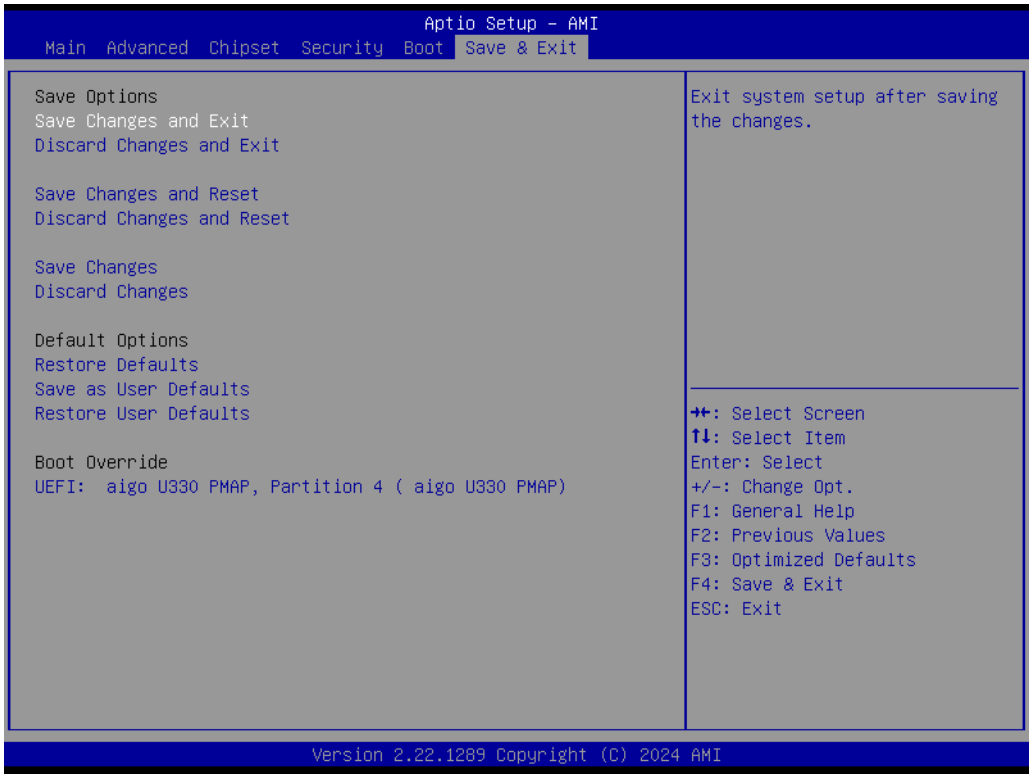
- **User Password**
  Select this option and press <ENTER> to access the sub menu, and then type in the password. Set the User Password.

2.5.2.5 Boot Configuration



- **Setup Prompt Timeout**
  User the <+> and <-> keys to adjust the number of seconds to wait for setup activation key.
- **Bootup NumLock State [On]**
  On or Off power on state for the NumLock.
- **Boot Option #1**
  Choose boot priority from boot device.

2.5.2.6 Save & Exit Configuration Setting



- **Save Changes and Reset**
  When users have completed system configuration, select this option to save changes, exit BIOS setup menu and reboot the computer to take effect of all system configuration parameters.
  1. Select Exit Saving Changes from the Exit menu and press <Enter>. The following message appears: Save Configuration Changes and Exit Now? [Ok] [Cancel]
  2. Select Ok or cancel.
- **Discard Changes and Reset**
  Select this option to quit Setup without making any permanent changes to the system configuration1. Select Reset Discarding Changes from the Exit menu and press <Enter>.
  1. The following message appears: Discard Changes and Exit Setup Now? [Ok] [Cancel]
  2. Select Ok to discard changes and reset. Discard Changes.
  Select Discard Changes from the Exit menu and press <Enter>.
- **Restore Default**
  The BIOS automatically configures all setup items to optimal settings when users select this option. Defaults are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Defaults if the user's computer is experiencing system configuration problems. Select Restore Defaults from the Exit menu and press <Enter>.
- **Boot Override**
  hows the boot device types on the system.

2.6 USC-360D System Setup

2.6.1 Android Lock and Home Screen

2.6.1.1 Power/Function Button and Gestures

The power button screen can display the menu.

If the power button is pressed for more than 2 seconds, it will appear a power menu, which for shutting down the system or restarting the system.

2.6.1.2 Home screen Display

The home screen is the initial screen for device navigation. You can move your favorite applications and widgets here.

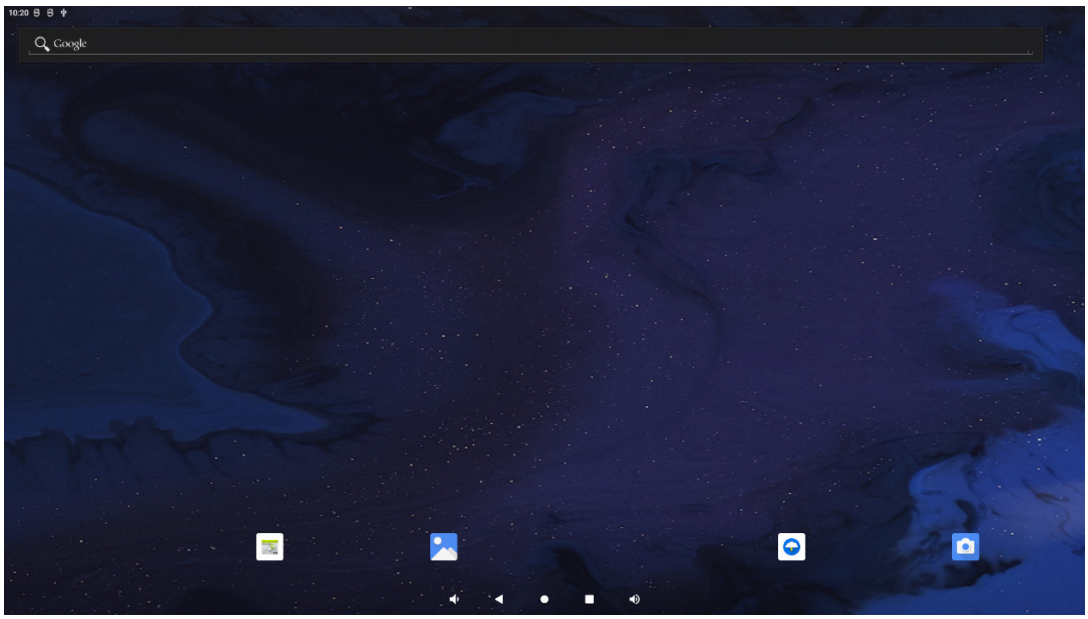
If want to unlock the screen and access the home screen, please to swipe up to unlock.

At the top is the search box.

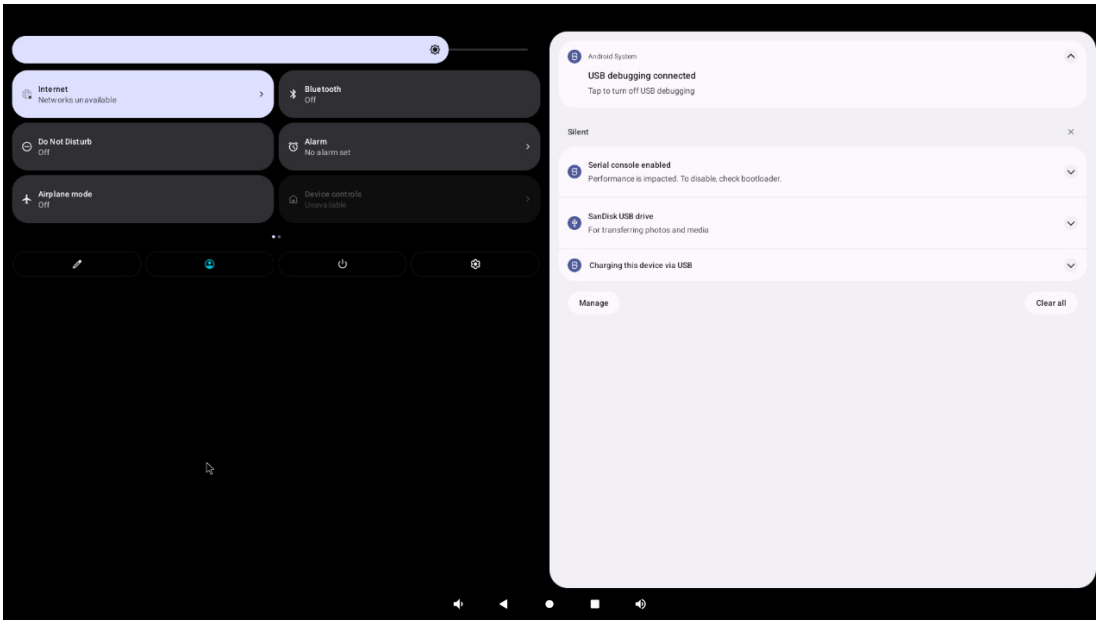
The four ICONS at the bottom are calendar, photo album, browser, and camera.

2.6.1.3 Navigation bar

- Recently used applications - Return to previous page.
- Home Screen - Return to the home screen
- Back off - Switch between recently used applications
- Sound - Control volume



2.6.1.4 Notification Panel



- The Notification panel provides quick access to setup shortcuts and notification prompt.
- Left - Brightness bar
- Right - Notifications
- Internet, Bluetooth, Auto rotation, Power Saving mode, Do not disturb, Alarm clock, Screen projection, Screen recording, Airplane Mode, Device Controller, Clear memory, Edit, User, Power, Settings

2.6.1.4.1 Notification panel Operation

- On the home screen, swipe down from the top of the touch screen.
- To clear a single notification prompt, drag the notification all the way to the left or right.
- To clear all notifications, click Clear.
- To customize a notification reminder, drag the notification halfway to the left or right, then click Settings.
- To exit, click on the navigation bar, or swipe up.

2.6.1.5 Application Drawer

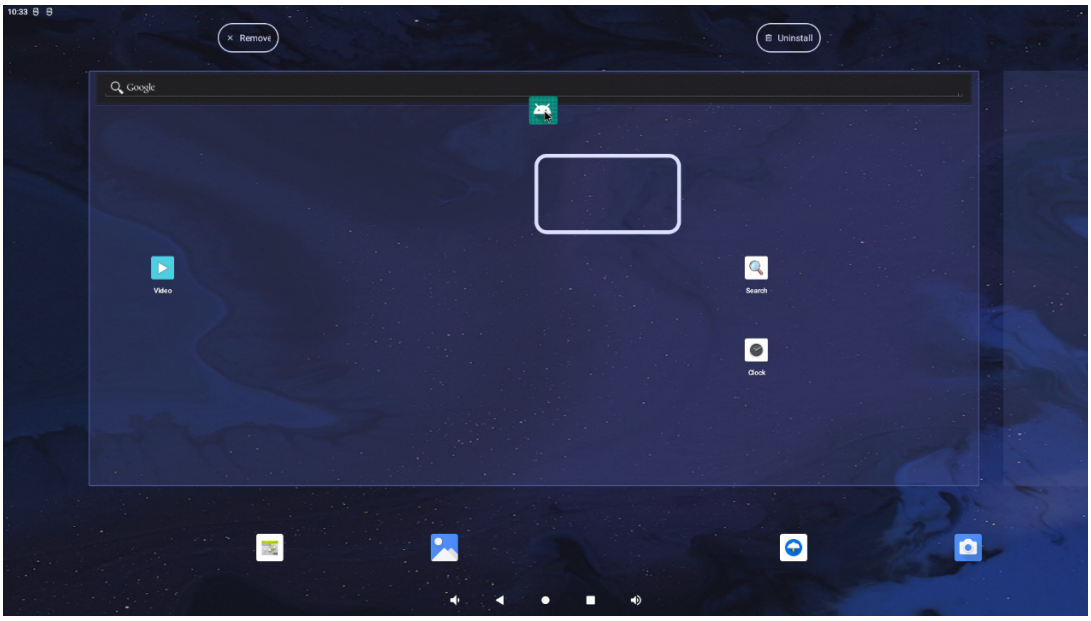
- The Application drawer is a menu that contains all the applications installed in the device, including system settings.
- Unlike the home screen, the application drawer contains every application installed and cannot be customized.

2.6.1.5.1 Open the Application Drawer (Manager)

- Swipe up the navigation bar on the home screen.
- Click to open an application
- To exit the application drawer, click the navigation bar or swipe down.

2.6.1.5.2 Customize Shortcuts and Add Them to the Home Screen

- In the application drawer, press and hold the app or (icon), then drag the icon and move the application to the home screen.
- Drag the icon to a new position and then release it.



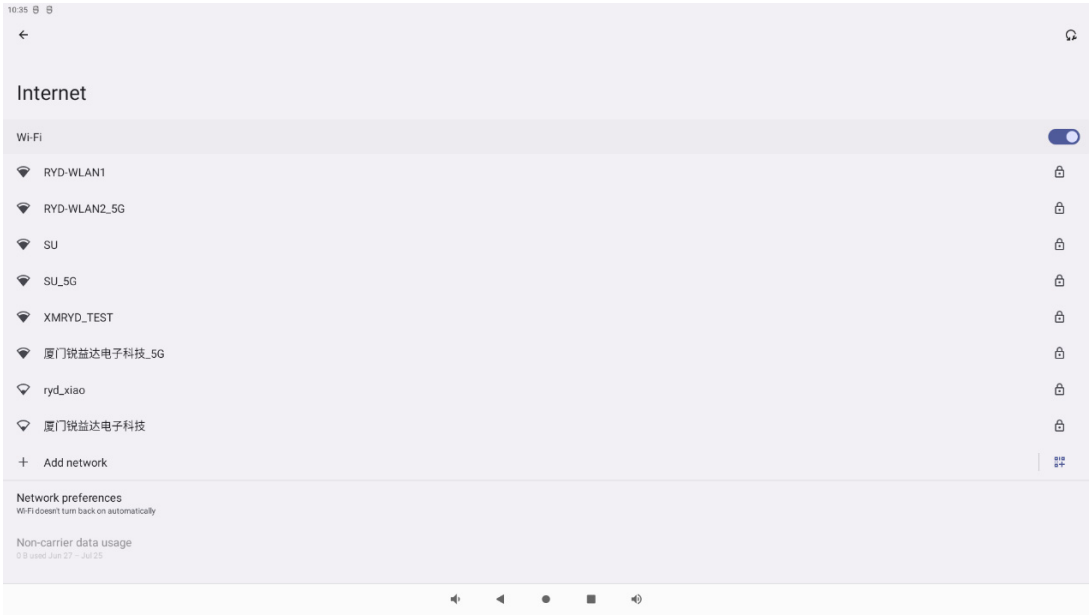
2.6.2 System Setting

The Android Settings menu can be used to control all aspects of the device, including establishing a new Wi-Fi or Bluetooth connection, installing a third-party on-screen keyboard, adjusting system sound and screen brightness, etc.

2.6.2.1 Network and Internet

2.6.2.1.1 Wi-Fi

- Click on Wi-Fi.
- Click on Wi-Fi button to enable it.
- Select a wireless network from the list.
- Enter the network password when system prompted.
- Click Connect.
- For more network details (IP address, security, frequency, and advanced Settings), please click Network Settings.



Use QR Code to Join Wi-Fi

- Scroll down the list of saved Wi-Fi and click.
- Click the (QR code icon).
- Place the viewfinder on the QR code of the other device.

Use QR Code to Join Shared Wi-Fi

- Click Setting icon of the connected device
- Click share icon SHARE

Disconnect from the Connected Wireless Network

- Click the Setting icon of the connected device
- Click the Forget icon FORGET to disconnect wireless network

2.6.2.1.2 Ethernet LAN (Gigabit)

- Connect the Ethernet cable
- Default Ethernet

2.6.2.1.3 Flight Mode

- This mode disables all wireless transmission functions. Including cellular, Wi-Fi and Bluetooth.
- To enable it, click Airplane Mode icon .

2.6.2.1.4 USB Network Sharing

- This feature is used to share an Internet connection with other devices via a USB cable.
- Click on Hotspot and Network sharing.
- Click USB Network Sharing icon to enable it

2.6.2.1.5 Bluetooth Network Sharing

- This feature is used to share an Internet connection with other devices via Bluetooth.
  Click on Hotspot and Network sharing.
- To enable it, click on Bluetooth Network Sharing icon .

2.6.2.1.6 Ethernet Network Sharing

- This function is used to share the Internet connection with other devices through network cables.
- To enable it, click on Bluetooth Network Sharing icon .

2.6.2.1.7 Data Save Mode

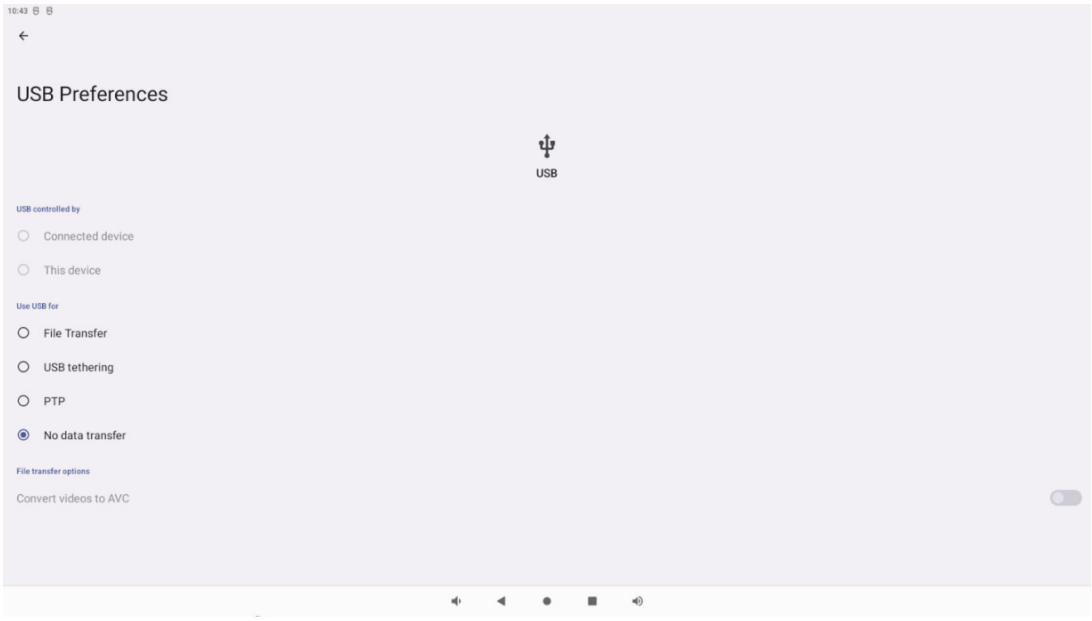
- If the Internet connection is established through a billing device, you can use this function to save data.
- Click Data Save mode.
- To enable it, click Use Save Mode icon .

2.6.2.2 Connected Device

2.6.2.2.1 USB

Note! *To activate USB Settings, you must first connect the USB cable to another device or PC. When an external computer is detected, the device will appear in the USB Preferences Settings.*

- Click on USB.
- Under "USB Usage" in USB Preferences, select and click the function you want to enable.



- File Transfer - This function will share internal memory and SD memory.
- USB Network Sharing - This function will share the Internet connection.
- PTP - Image transfer protocol.
- No data transfer - (default setting) No data is transferred even if a USB cable is connected.

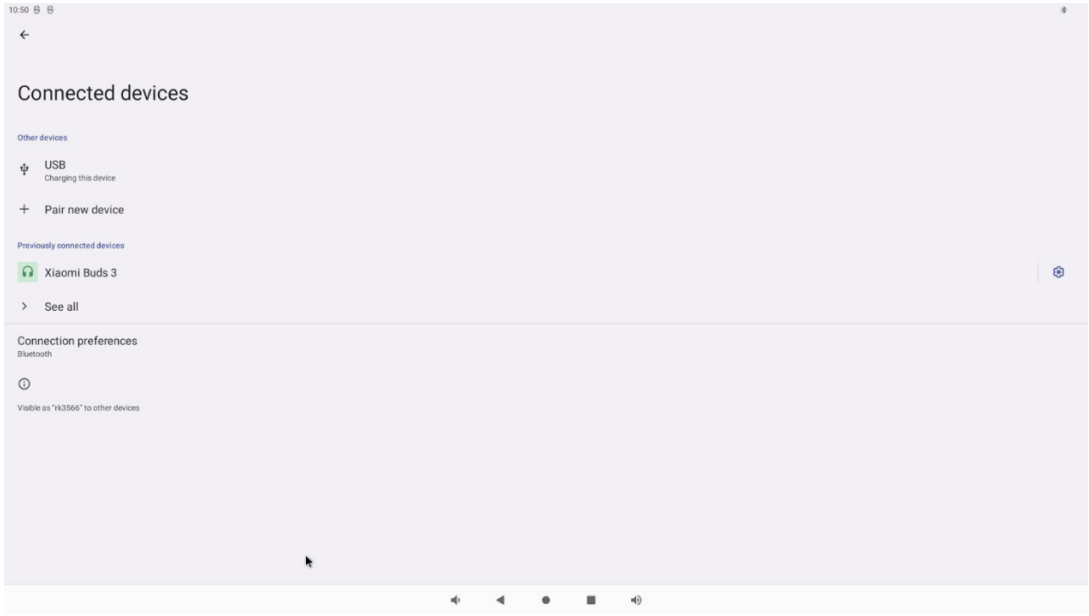
2.6.2.2.2Bluetooth

Note! *Make sure the Bluetooth device is turned on and searchable.*

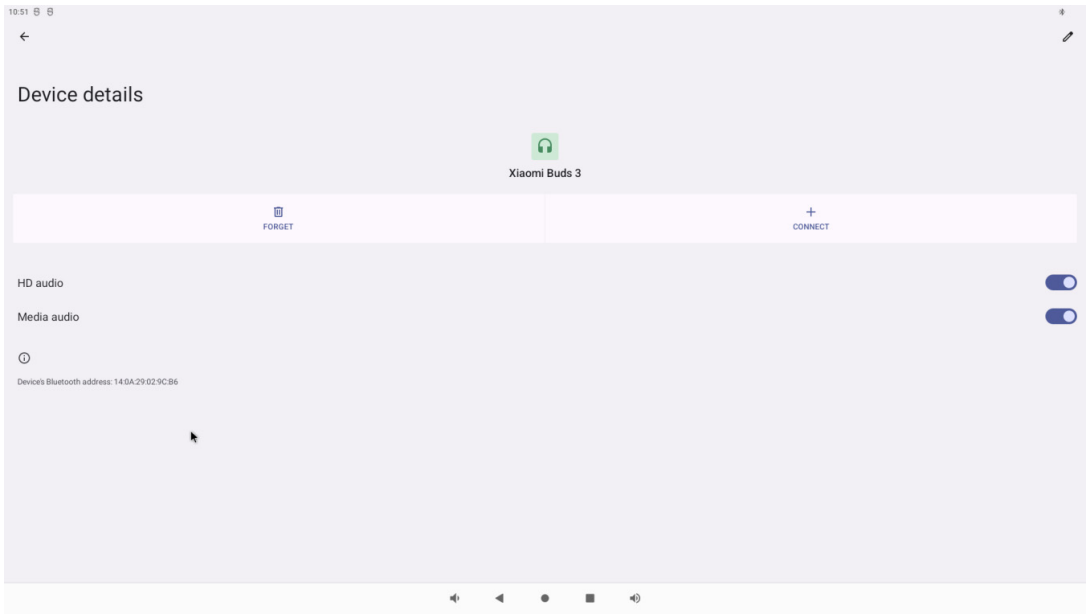
- Click to pair with a new device.
- In the Available Devices screen, choose a device to pair.
- A request message appears when pairing.
- Verify that the matching number is the same.
- If the pairing process requires a PIN, enter it.
- Click Pair to connect.
- Once the Bluetooth device is successfully connected, the connection will show ‘Active’ or ‘Connected’.

Disconnect paired Bluetooth Device

- Return to the ‘Connected Devices’ screen from available media devices or previously connected devices.
- Click Settings icon of the connected devices.



- In the Settings icon menu, you can disconnect, forget (unpair devices), enable/disable phone calls or media audio or contact sharing.



2.6.2.2.3 Projection Screen

Connect wireless display devices

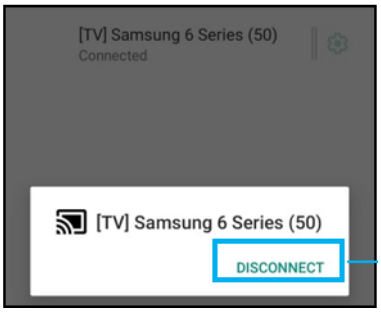
Note! *Ensure that devices with wireless display capabilities are connected to the same wireless network*

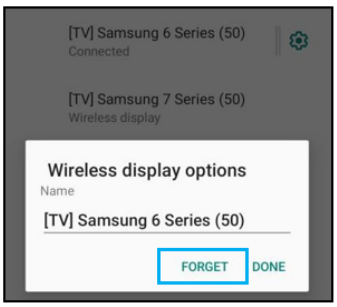
- Click Connection Preferences.
- Click "Projection".
- Click on the ⋮ 3-point menu.
- Click Enable Wireless Display to start scanning compatible display devices.

- Click a wireless display device (such as a TV) in the list. In the wireless display device (TV), click Allow (if system prompted).

Disconnect and forget connected wireless display devices

- To stop the screen, tap a connected wireless display device (such as a TV).
- Click Disconnect.

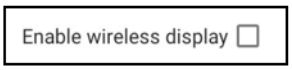




- Click the Settings for connected wireless display devices.
- In the wireless display device options screen, click Forget.

Stop scanning and use a wireless display device for screen projection

- Click on the ⋮ 3-point menu.
- Make Enable Wireless display device to leave it unchecked



2.6.2.2.4 Printer

Note! *Make sure you are connected to the same network as the printer.*

- Click on Connection preferences.
- Click to print.
- Click Default Print Service.
- Click the toggle switch to "On" .
- Click on the 3-point menu.
- Click Add Printer.

Add a printer using a Wi-Fi printer

- Click Wi-Fi to enable printer .
- If prompted, click "Allow only when using this app" to allow use of the device.
- Click Wi-Fi to start searching for a Wi-Fi printer to add.
- Click on the printer name to connect.

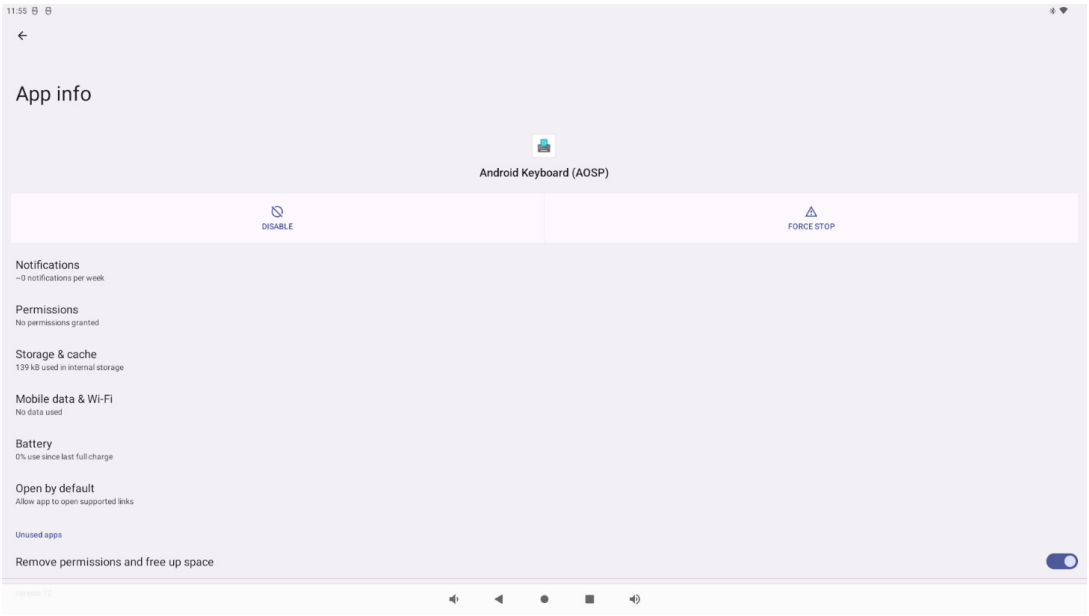
Add a printer by entering the IP address

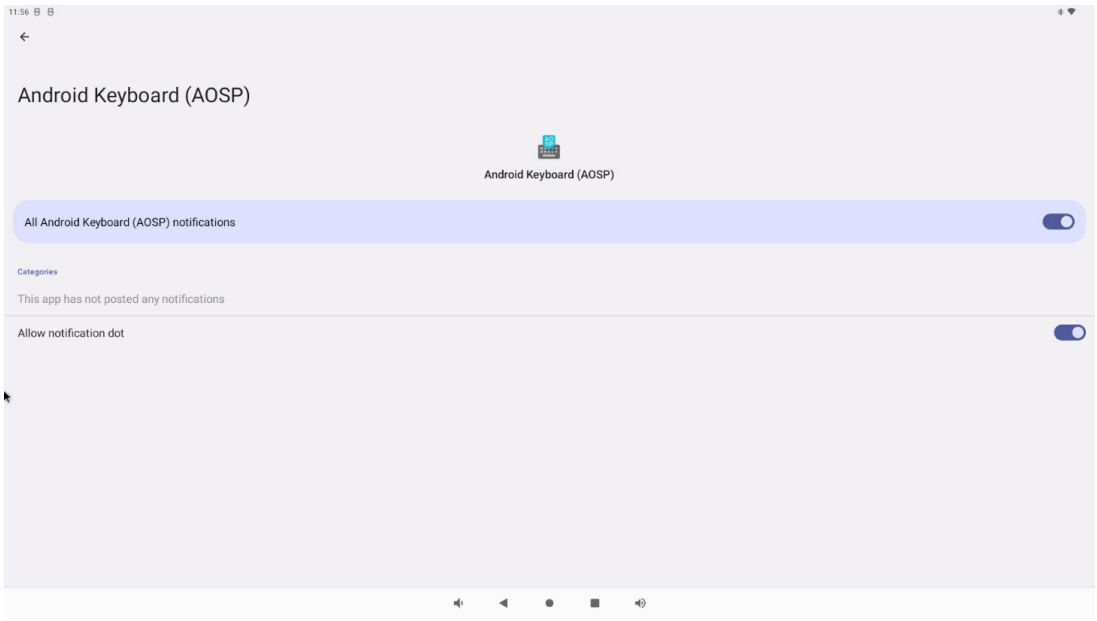
- Click Add printer by IP address.
- Enter the IP address of the printer.

2.6.2.3 Application

2.6.2.3.1 Set notification

- In recently opened apps, click to view all apps or app information.
- In the application information screen, click the application Settings notification (such as keyboard).
- In application properties Settings, you can also disable, enable, and force applications to stop.
- To enable or disable notifications, click Notifications. Then select Show Notifications.
- To add a dot for unread notifications, click Advanced, then click Allow Notifications.

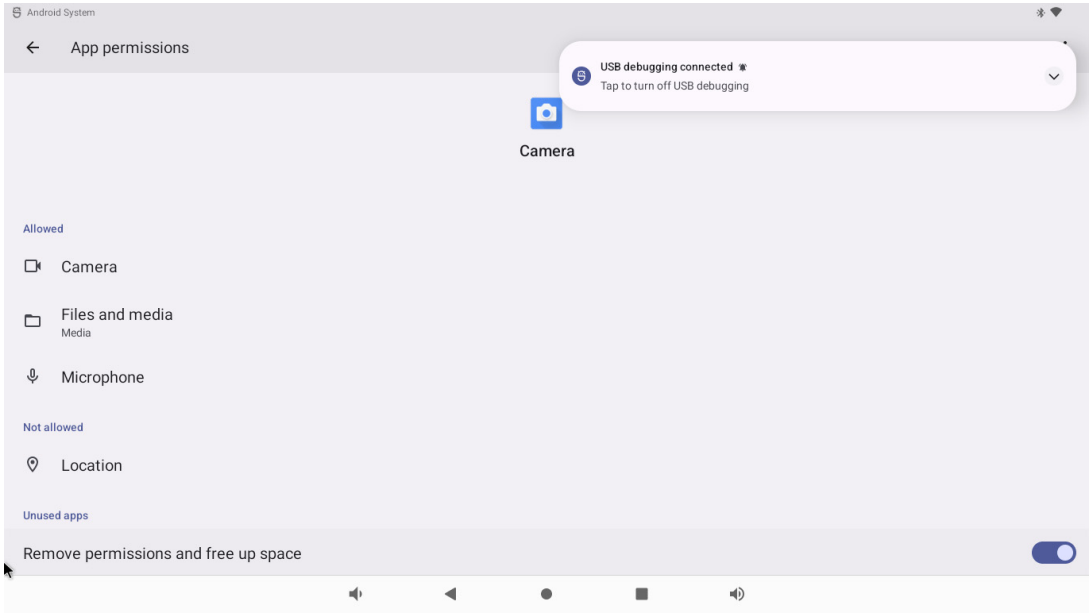




2.6.2.3.2 Reset Application Preferences

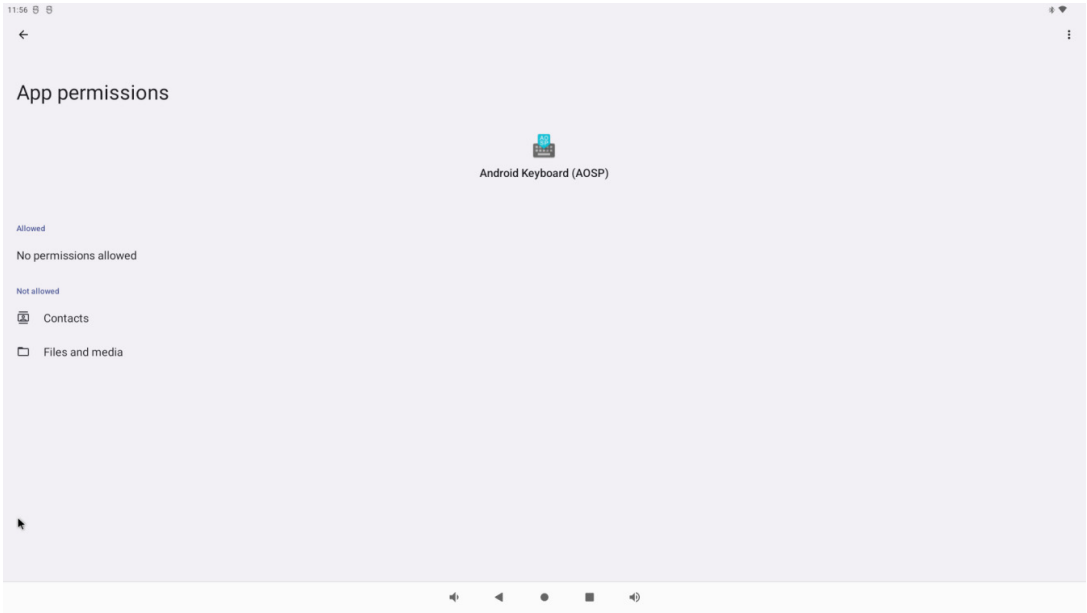
This action does not cause any application data loss.

- Click the ⋮ 3-point menu in the app info screen.
- Click Reset App Preferences, then click Reset App.



2.6.2.3.3Set up the Application Rights Manager

- To manage your application's preferred permissions (for example, keyboard), click Permissions.
- To allow permissions for an app, click on the app in the Reject menu.
- To deny permission to an application, click on the application in the Allow menu.

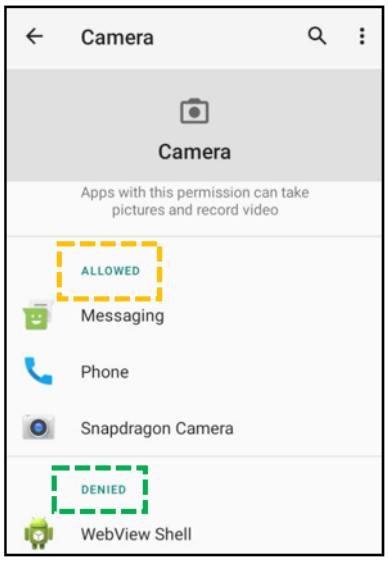


2.6.2.3.4 Set Notifications in the Lock Screen

- To set notifications in the lock screen, tap Notifications in the Apps and Notifications screen.
- Tap the lock screen notification. Then follow the on-screen instructions to set how notifications appear in the lock screen.

2.6.2.3.5 Set the Permissions Manager for Applications that Use Memory, Phone, and Location

- To give permissions to an app, click the Permissions Manager in the Apps and Notifications screen.
- In the Permission Manager menu, click the application whose permissions you want to manage (for example, camera).
- Select the application to manage from the camera properties.
- To allow permissions for an app, click on the app in the Reject menu.
- To deny permission to an application, click on the application in the Allow menu.



2.6.2.3.6 Set Emergency Alert

- Click Advanced in the Apps and Notifications screen.
- Click on Emergency Alerts.
- In the Alerts menu, click on a feature (such as amber light alerts) to enable or disable it.
- For sound and vibration Settings, Click Vibration to enable or disable it in Alert Preferences.
- For the alert Settings, click the alert tone.

2.6.2.3.7 Get additional Settings

- Click Advanced.
- Click the function to enable or disable it.

2.6.2.4 Memory

2.6.2.4.1 Internal Shared Memory

- To check the status of internal memory, click "Internal Shared Storage".

2.6.2.4.2 Storage Manager

- This function helps free up memory space, and the storage manager can remove backup photos and videos from the device.
- To enable or disable , click Use Storage Manager.
- To change the date you set to remove photos and videos, click Remove Photos and Videos.
- Select the appropriate option from the options below.
- Click Back to exit.

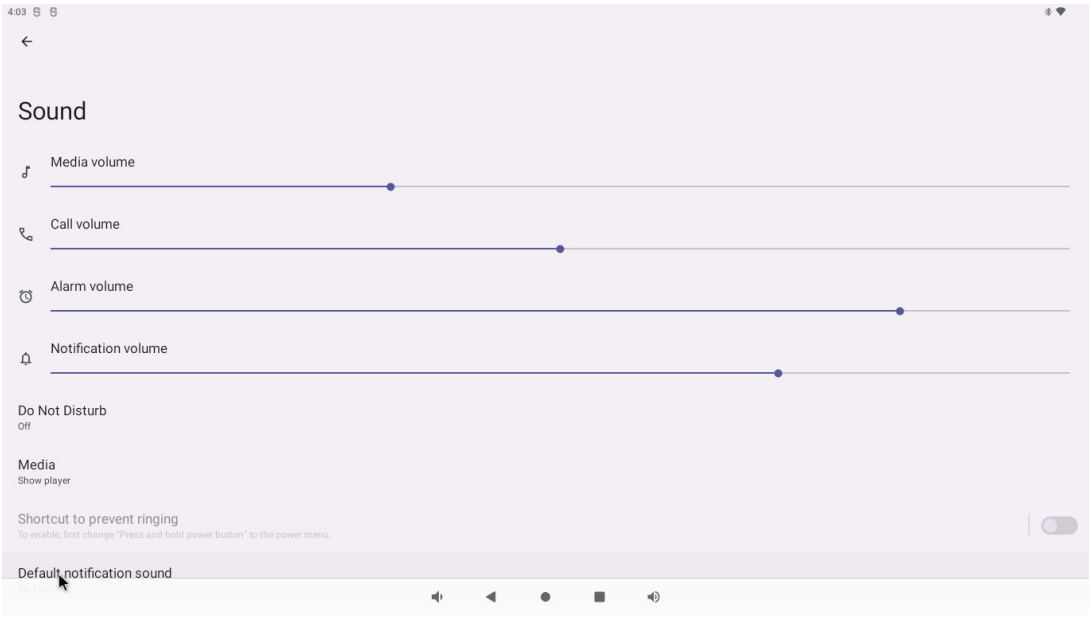
2.6.2.5 Sound

The sound application is used to manage audio, vibration, and do not disturb.

To modify the Settings, go to Settings → Sound →

2.6.2.5.1 Volume Setting

- To lower or increase the volume of the following sounds, drag the slider left and right.

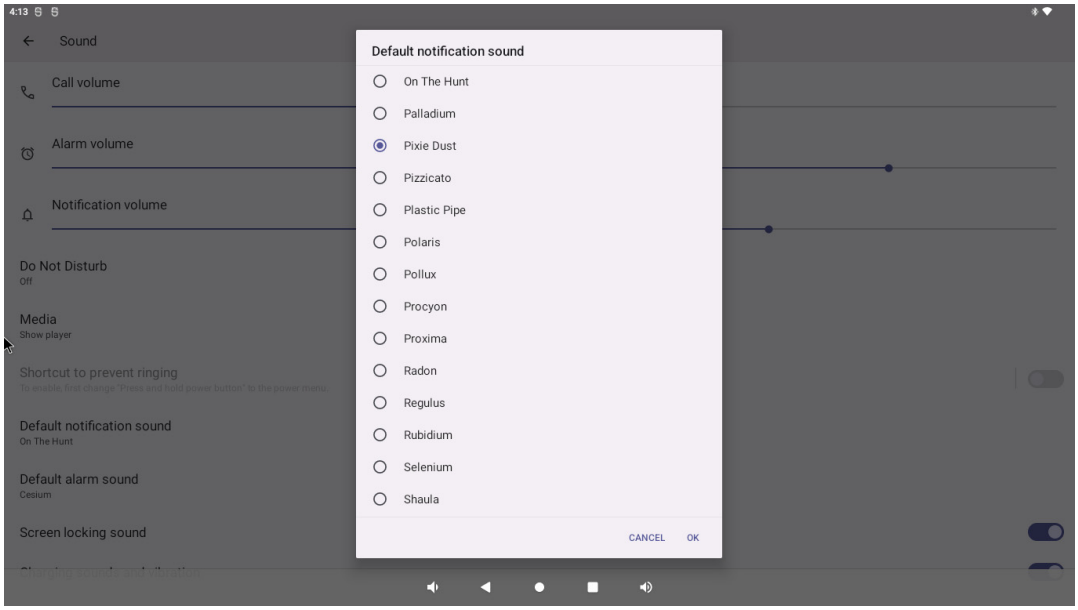


2.6.2.5.2 Do Not Disturbing

- Click Do not Disturb.
- Click Turn On Now to enable the Do Not Disturb.
- To manage Settings, click the function you want to manage and follow the on-screen instructions to complete the Settings.
- To disable this function, click Turn Off Now

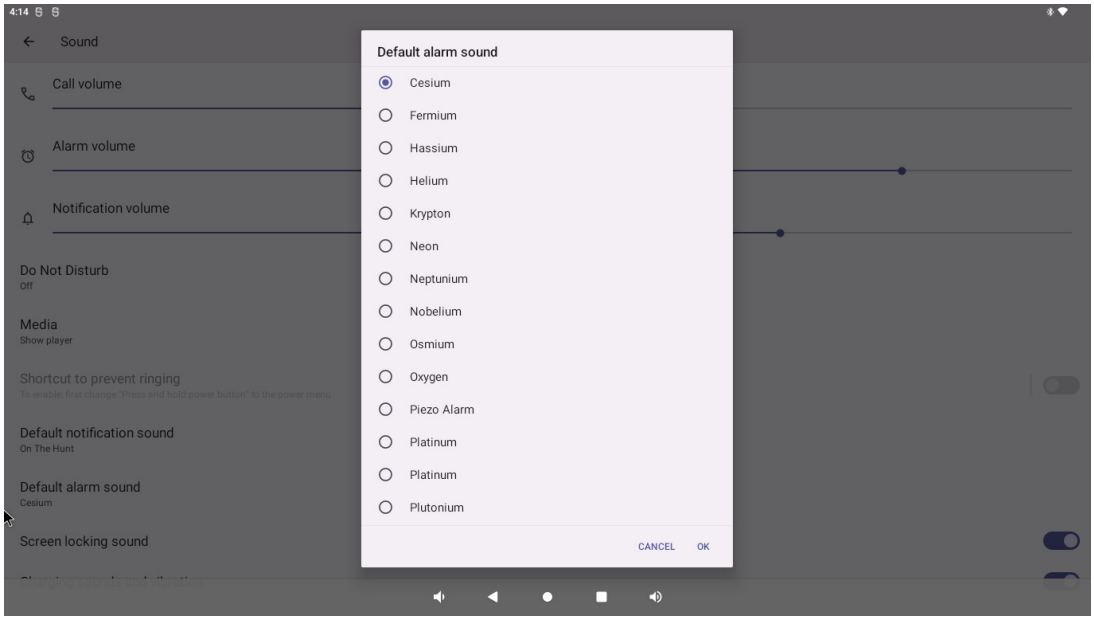
2.6.2.5.3 Default Notification Sound

- Click the default notification sound.
- Select a sound from the list, such as Pixie Dust, and click OK to save.



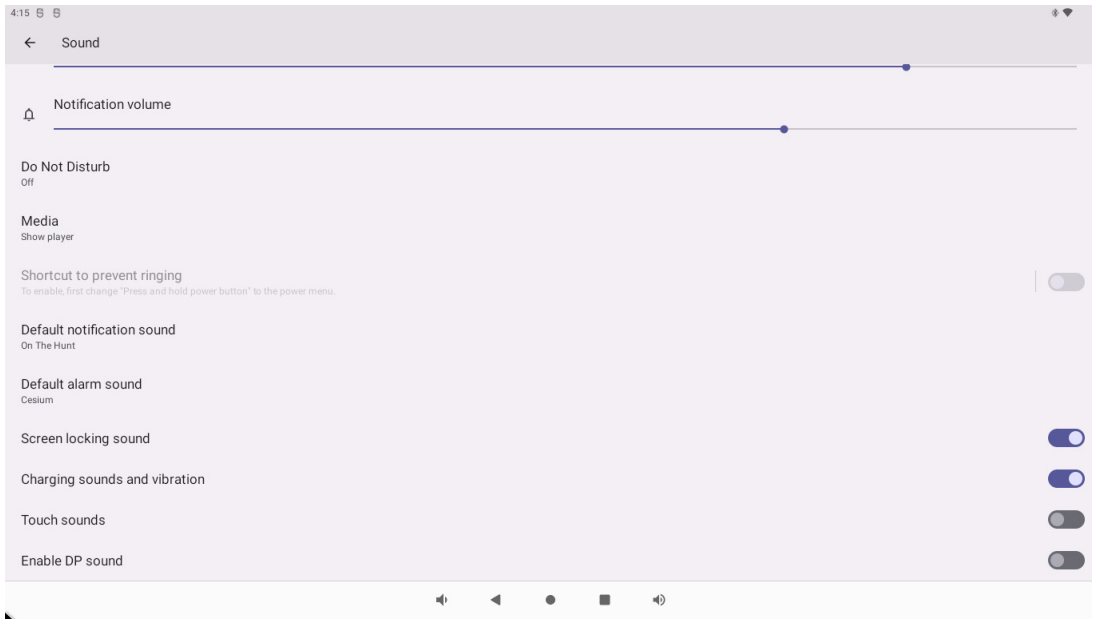
2.6.2.5.4 Default Alarm Sound

- Click the default alarm sound.
- Select an alarm sound from the list, such as Cesium, and click OK to save.



2.6.2.5.5 Advanced

- To enable or disable , the following features, click on a feature.

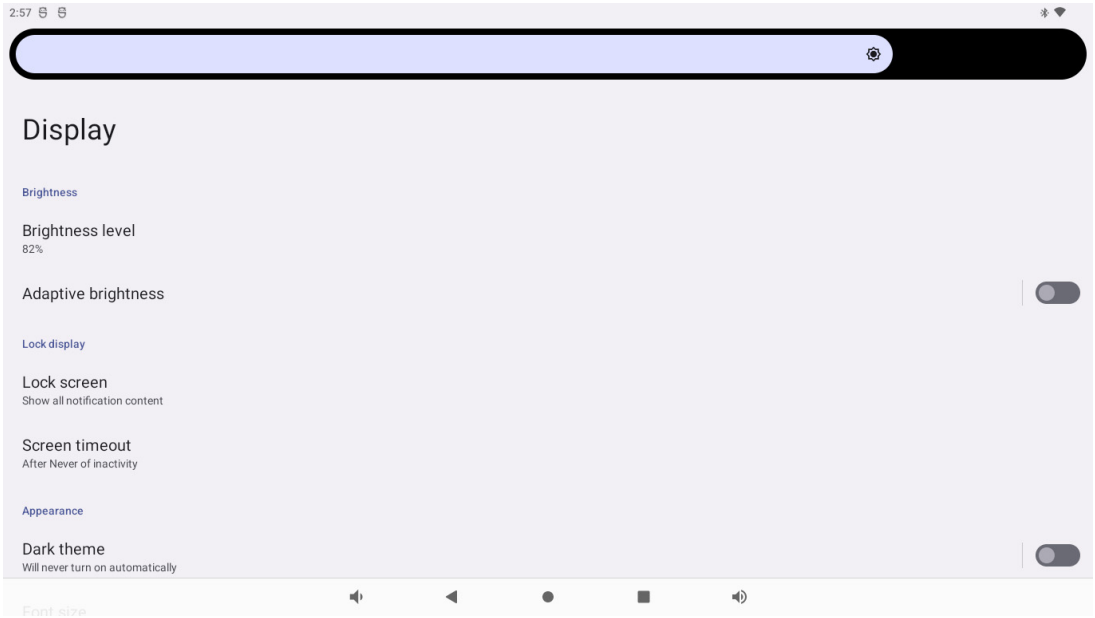


2.6.2.6 Display

- Display the display Settings of the application management screen.
- To modify the display Settings, go to Settings → Display →

2.6.2.6.1 Brightness Level

- Click on brightness level.
- Move the slider left and right to adjust the screen brightness.

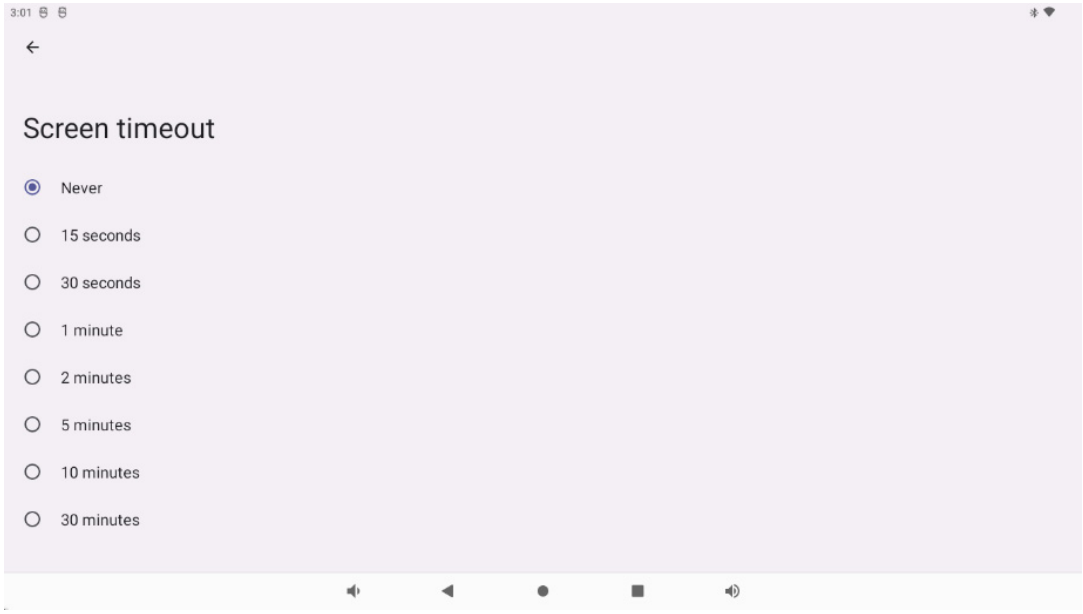


2.6.2.6.2Dark Theme

- To switch the screen theme to dark (black) or light (white), enable or disable .

2.6.2.6.3Screen Timeout

- Click "Screen Timeout".
- Select a time limit from the options below
- Click Save.

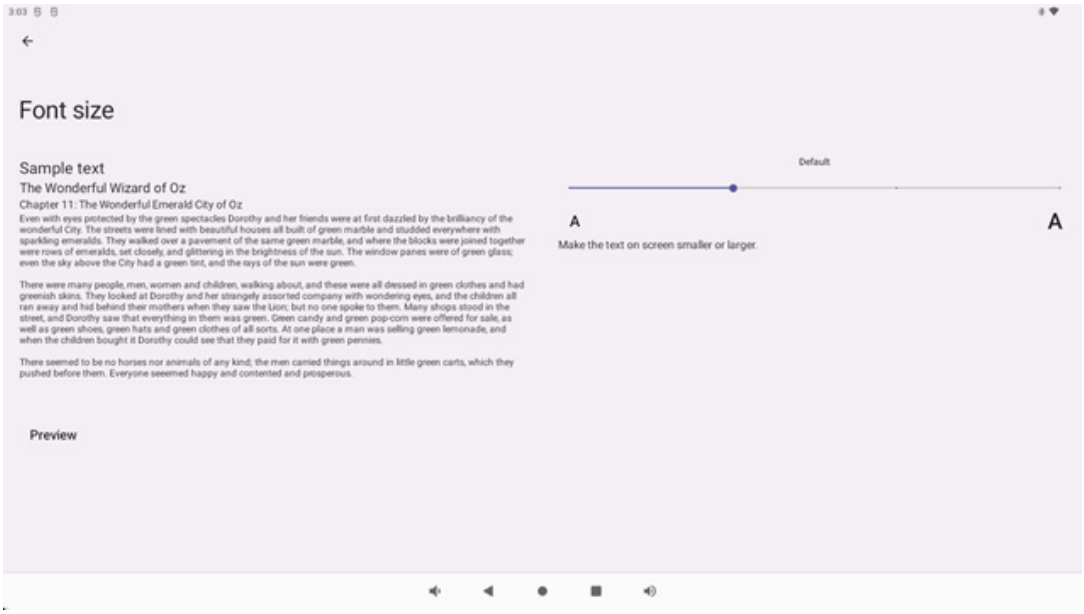


2.6.2.6.4Auto Rotating Screen

- Click Auto rotate screen to enable or disable.

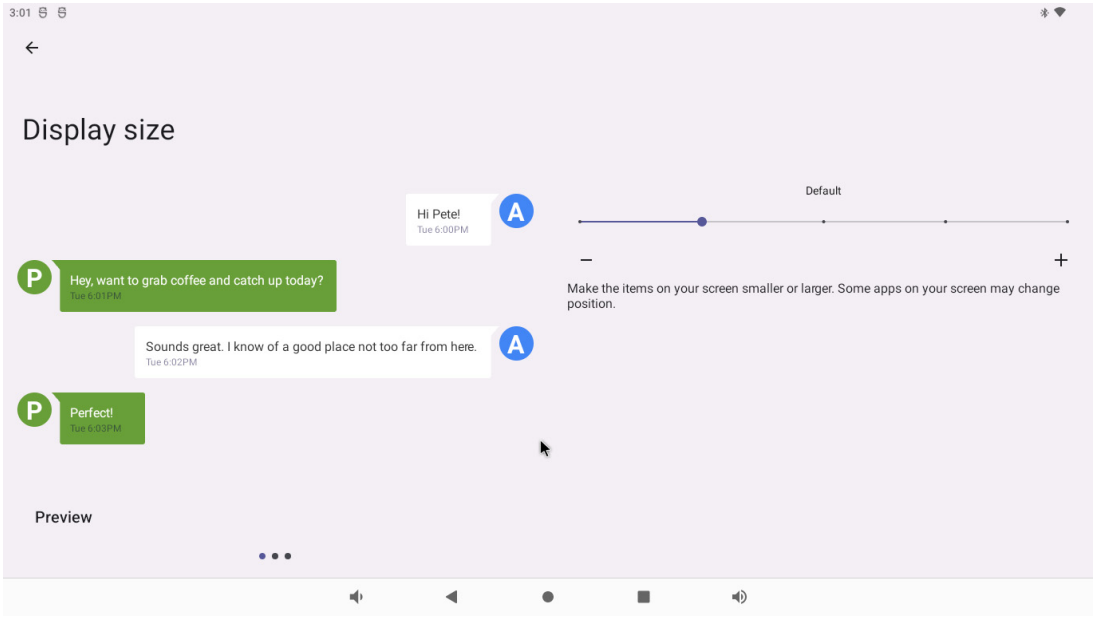
2.6.2.6.5Font Size

- Click "Font Size".
- Move the slider left and right to adjust the text size



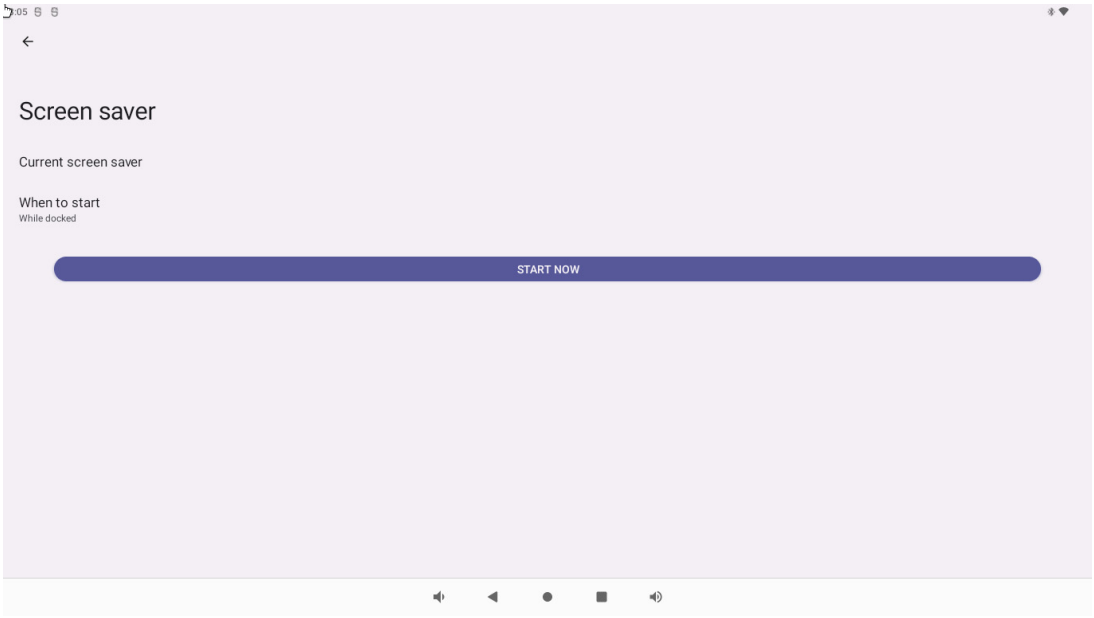
2.6.2.6.6 Display Size

- Click "Display Size".
- Move the slider left and right to adjust the display size.

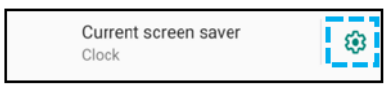


2.6.2.6.7Screen Saver

- Click "Screen Saver".
- Click the “current screen saver” to make changes to the current Settings.



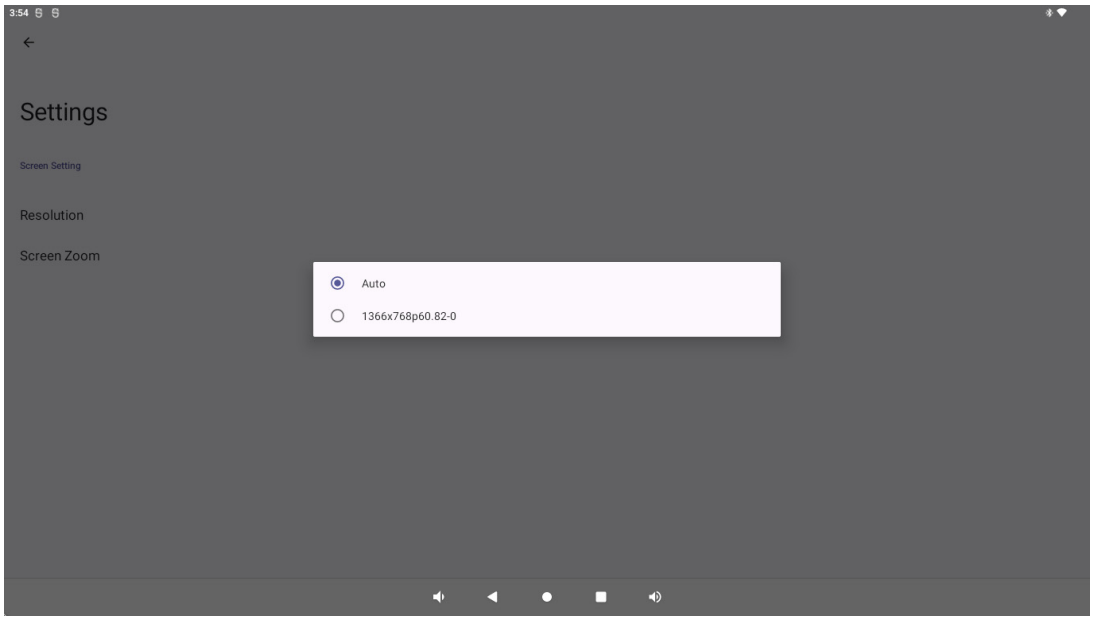
- Select screensavers from clock, color, picture frame, and photo table.
- To use other clocks, photo frames, and photo console screensavers, click Settings.



- To activate the screensaver, click "Start Now".

2.6.2.6.8 HDMI

- Click on HDMI
- Click Resolution Settings
- Switching resolution



2.6.2.6.9 Screen Scaling

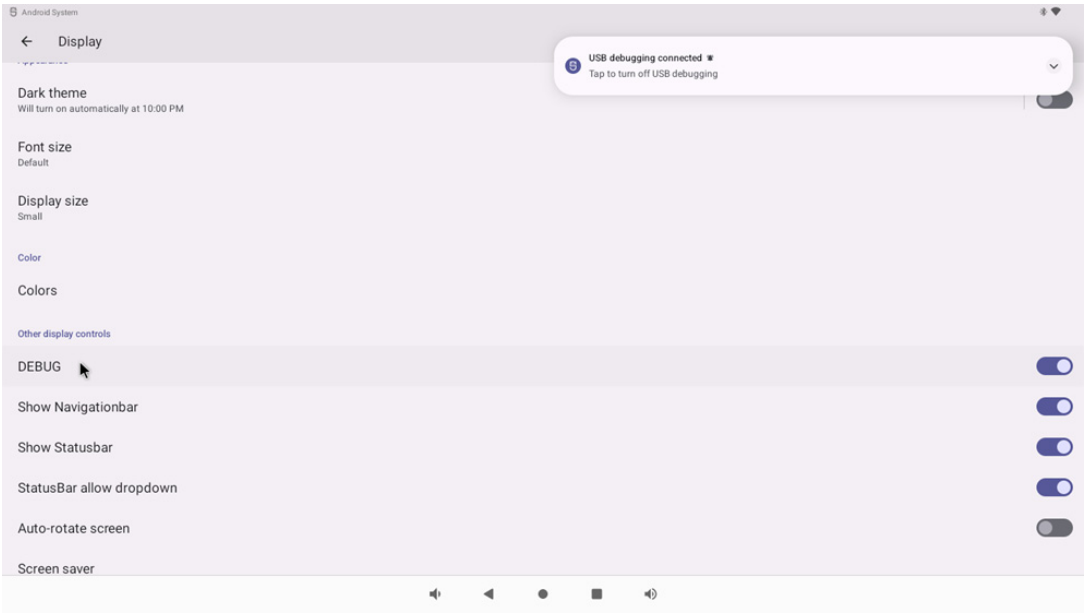
- Screen top and bottom border scaling

2.6.2.6.10Wallpaper

- Click on the wallpaper.
- Select a wallpaper from the options below.
- Dynamic wallpaper
- Photo gallery
- Wallpaper
- Select the image or picture from the folder that you want to use as your wallpaper.
- Click "Set Wallpaper".

2.6.2.6.11 Debug Mode

- Enable debug mode
- Connect to PC device
- Enable display Navigation bar — Show Navigationbar

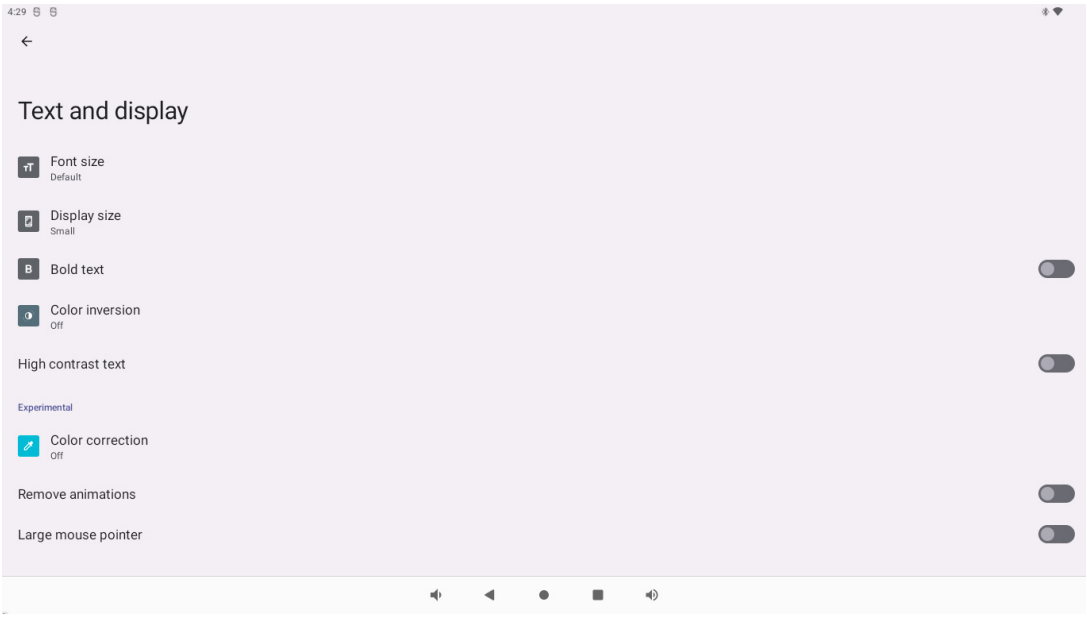


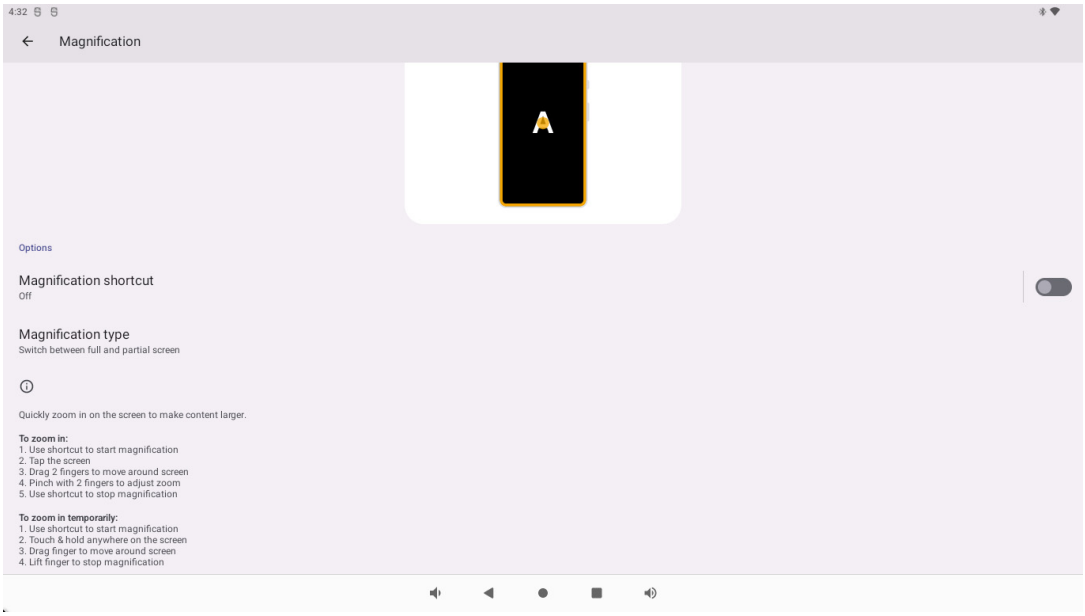
- Enable display StatusBar — Show Statusbar

- Enable StatusBar allow dropdown

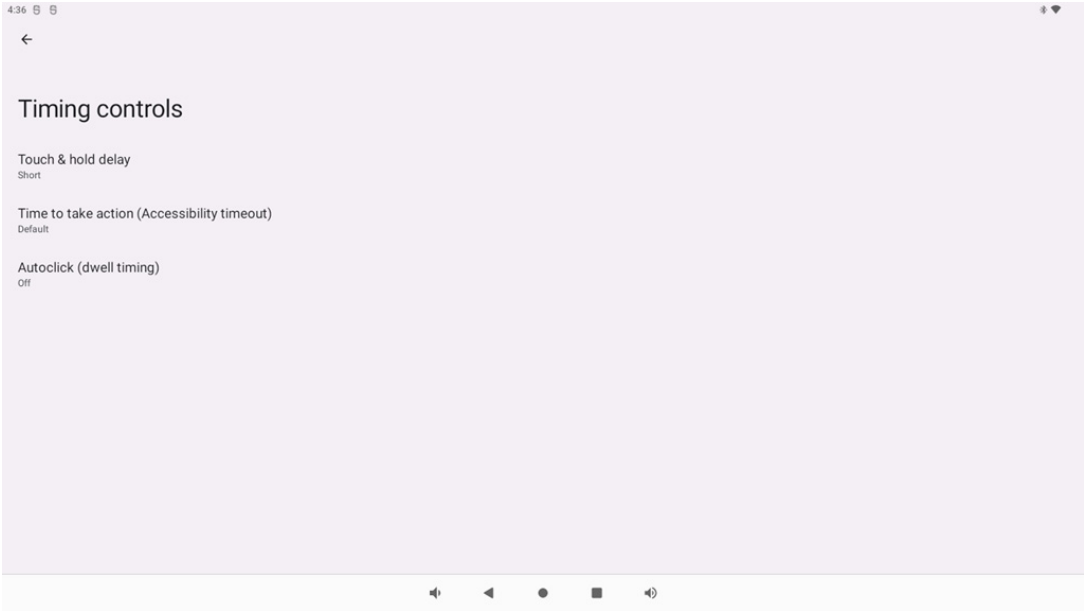
2.6.2.7 Accessibility

- To modify the Settings, go to Settings → Accessibility
- Select the function you want to change from the menu.
- Text and display
- Font size
  - Display size
  - Bold text
  - Color inversion
  - High contrast text
  - Color correction
  - Remove animation
  - Large mouse pointer
  - Magnification

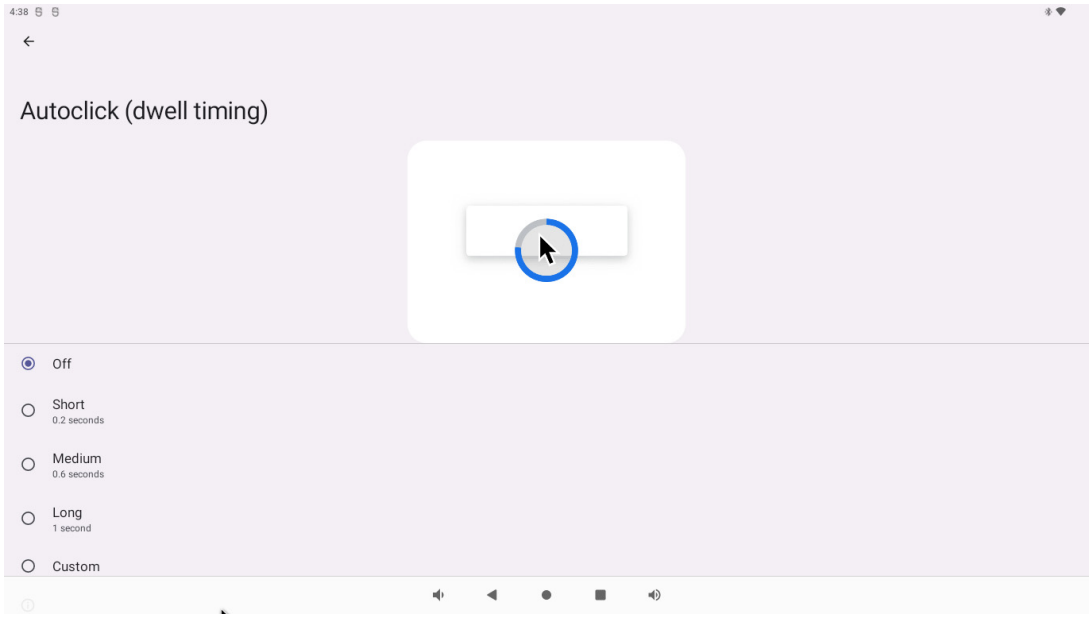




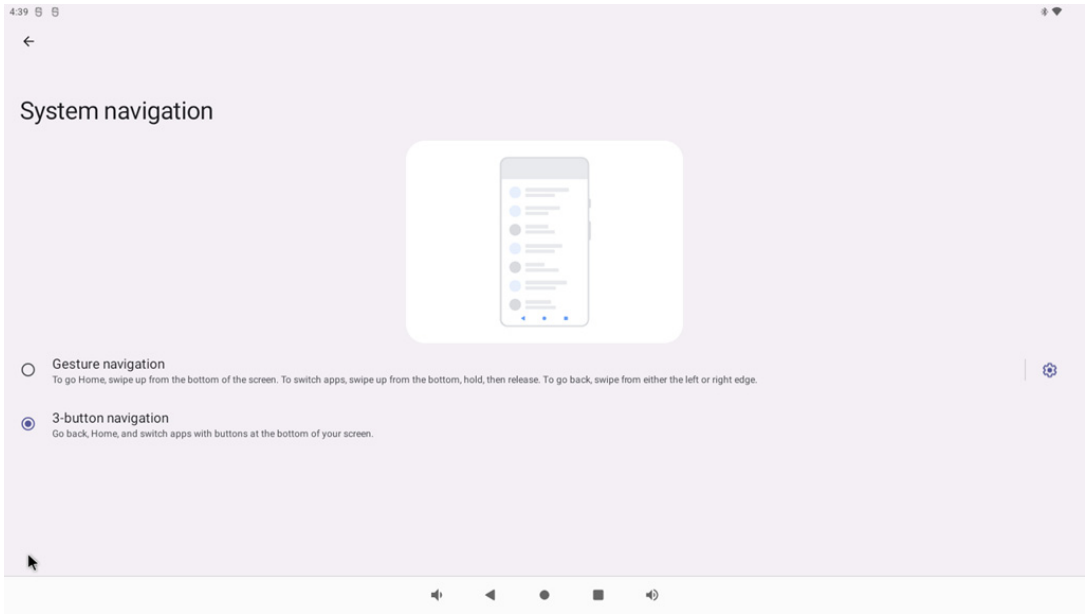
- Open and close shortcuts
- Amplification mode
- Select the amplification mode you want
- Time control



- Touch and hold delay
- Short-medium-long
- Wait operation duration
- Select the corresponding duration as required
- Autoclick

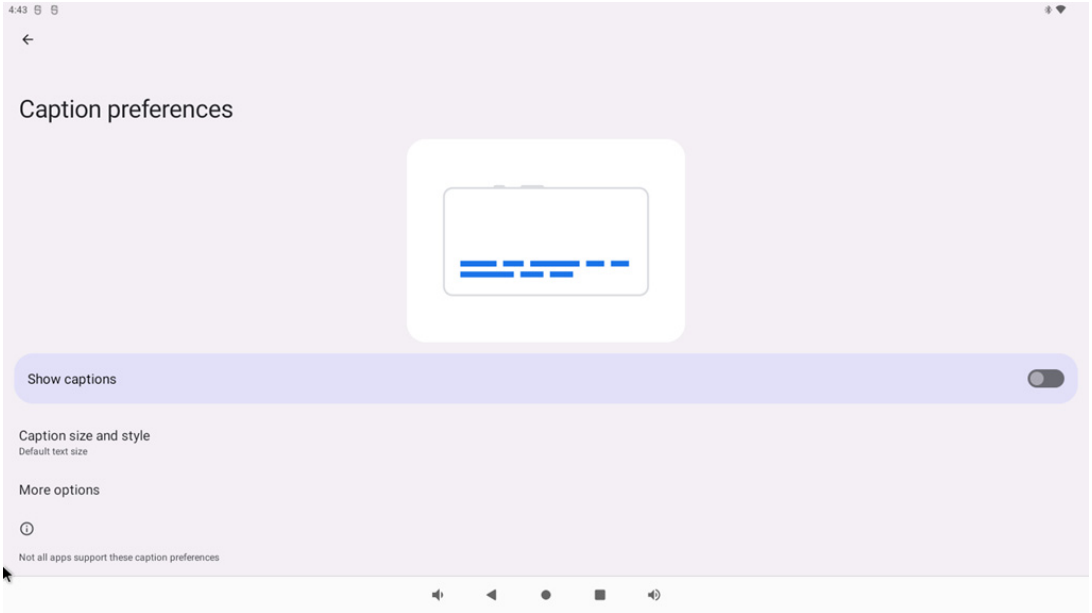


- System controls
- System navigation
- Vibration and touch strength

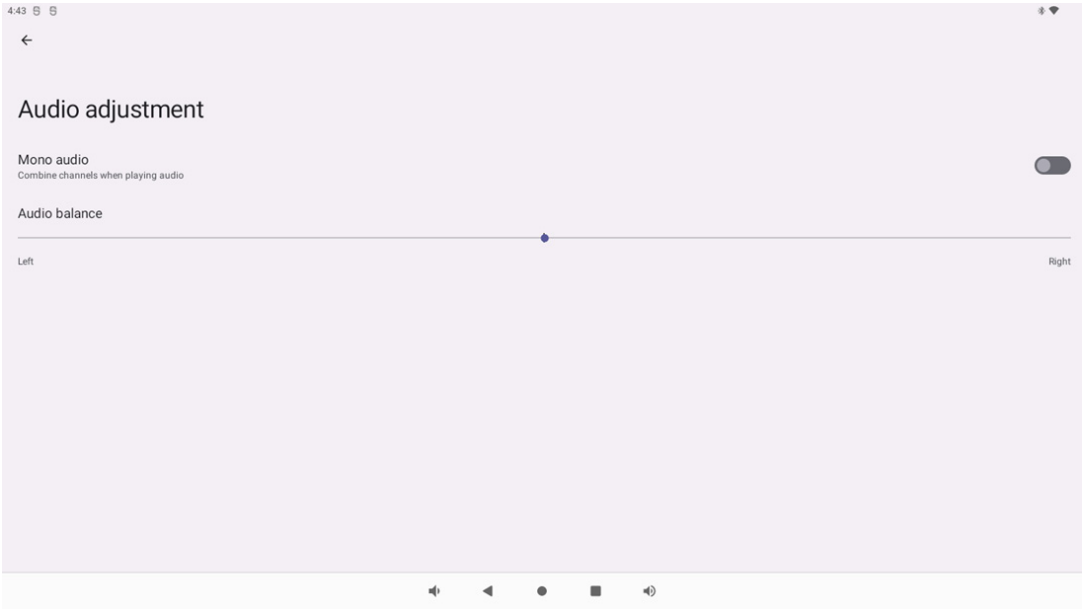


- The Ring vibrates
- Notification vibration
- Touch feedback

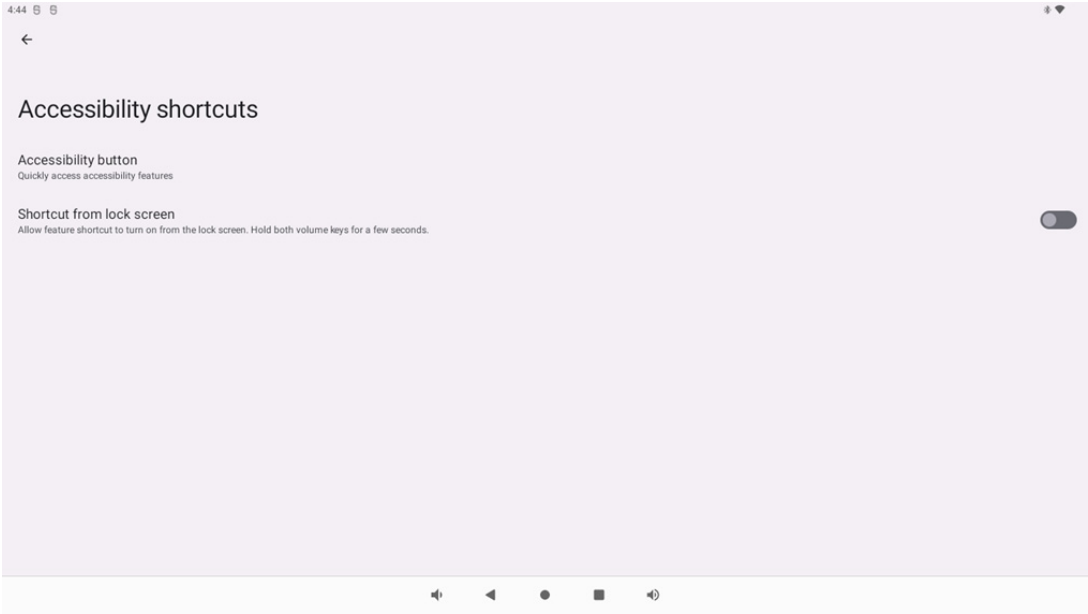
- Caption preference
- Show captions



– Select whether to enable it as required
– Audio adjustment



– Select whether to enable it as required
– Accessibility shortcuts



2.6.2.8 Security

- To modify security Settings, go to Settings → Security

2.6.2.8.1 Screen lock

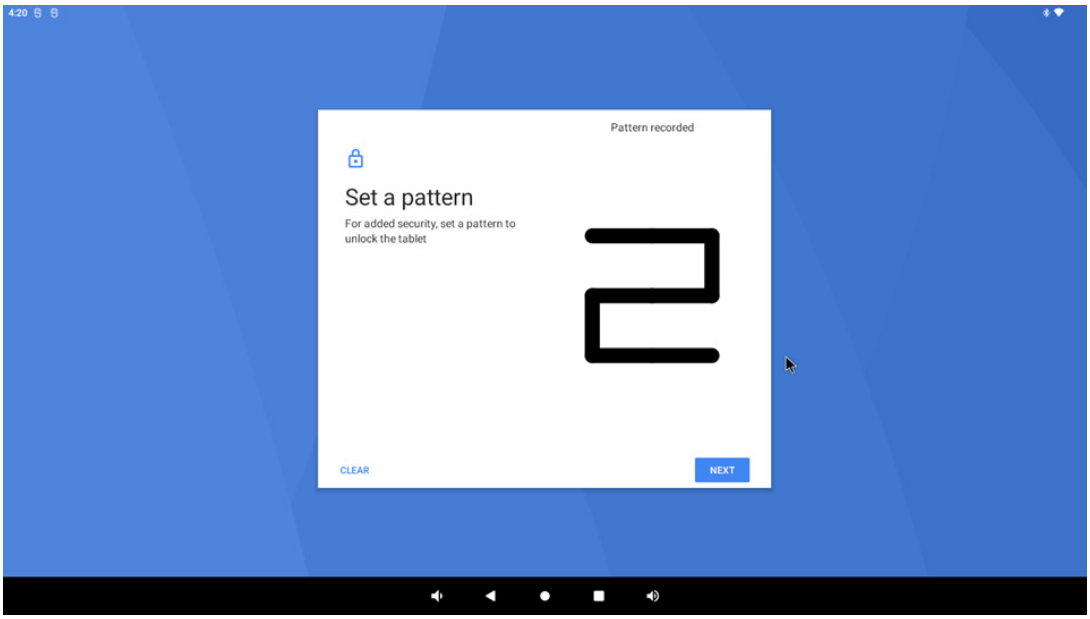
- Click "Screen Lock".
- Select the security you want to set from the menu.

2.6.2.8.2 Swipe Security

- Click "Swipe".

2.6.2.8.3 Pattern Security

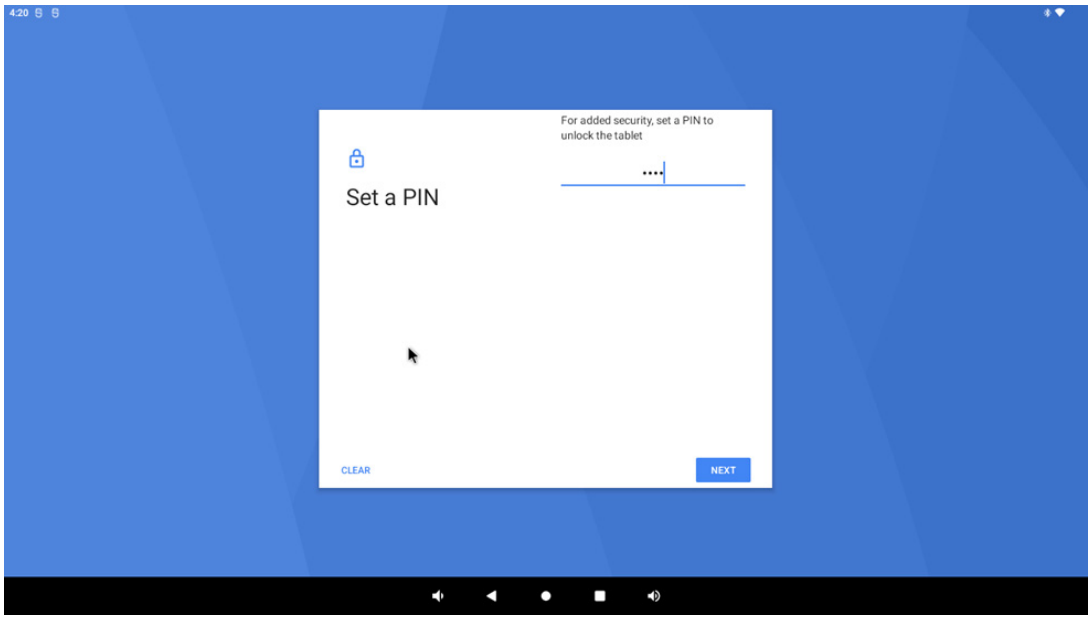
- Click on "Pattern".
- Click "Yes".
- Draw the security pattern (for example in this picture) and click "Next".



- Draw the same pattern again and click "Confirm".
- Follow the on-screen instructions and click "Done"

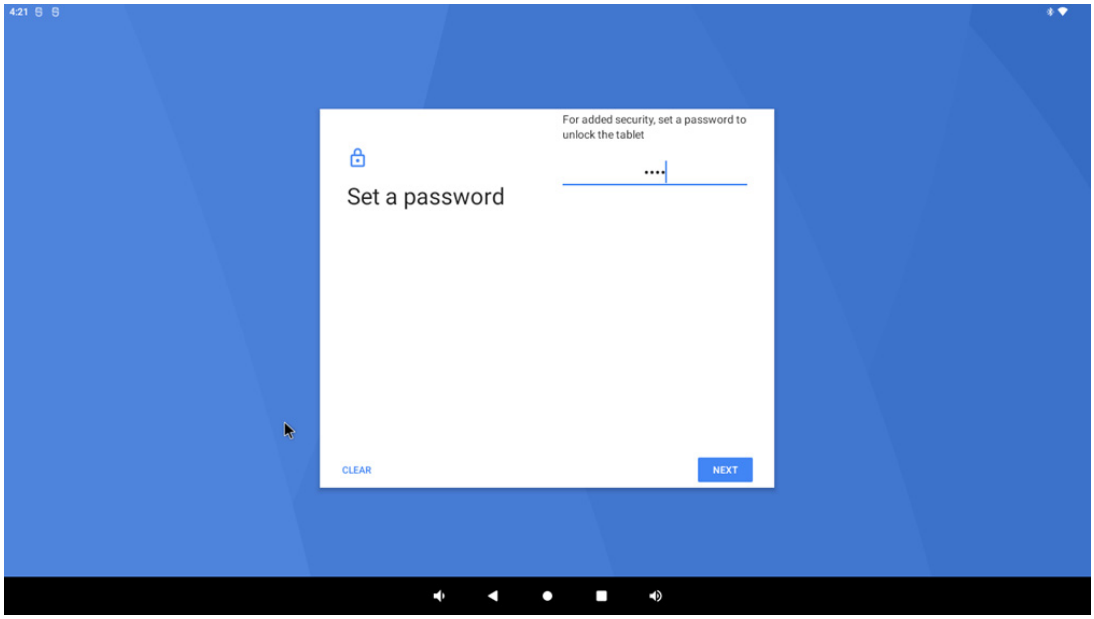
2.6.2.8.4 PIN Code Security

- Click "PIN".
- Click "Yes".
- Enter the PIN code (minimum 4 digits) and click "Next".
- Re-enter the PIN code and click "Confirm".
- Follow the on-screen instructions and click "Finish".



2.6.2.8.5Password Security

- Click "Password".
- Click "Yes".
- Enter your password (minimum 4 characters) and click "Next".
- Re-enter your password and click "Confirm".
- Follow the on-screen instructions and click "Finish".



2.6.2.8.6 Unlock Screen

- To unlock the screen, Click Screen Lock.
- Enter a password when prompted (PIN, pattern, and password security only).
- Click "None" to cancel the screen lock.
- Click “Yes”.
- Click "Cancel" to confirm.

2.6.2.9 Privacy

The privacy application is used to control the permissions that the application has.

To manage permissions, go to Settings → Privacy

2.6.2.9.1 Privacy Information Center

Shows the most recently licensed software

Privilege manager

Used to grant storage, phone, and location permissions to applications.

- To manage the permissions of your application, click the Permissions Manager.
- In the Permissions Manager menu, click the application you want to manage (for example, the camera).
- Camera permissions are displayed in camera properties.
- To allow permissions for an application, Click the application in the Reject menu.
- To deny permission to an application, Click Applications in the Allow menu.

2.6.2.9.2 Display Password

Characters are displayed briefly as the password is entered.

- To enable and disable , Click Show Password.

2.6.2.9.3 Lock Screen

All notifications will be displayed on the lock screen.

- To enable and disable , click lock screen.

Display clipboard access notifications

- To enable and disable , click Open

2.6.2.9.4Location

To change the location Settings, go to Settings → Location

- Click "Location."
- To enable or disable, tap "Use location."

- For apps that have recently requested a location, click to see all.
- To update permissions, click Application permissions.
- To scan for Wi-Fi networks and Bluetooth, click Scan for Wi-Fi and Bluetooth.

Note! *With this function, applications and services can scan Wi-Fi networks and Bluetooth at any time. You can use this function to improve the location-based functionality.*

2.6.2.10 Account

To add an account, go to Settings → Accounts

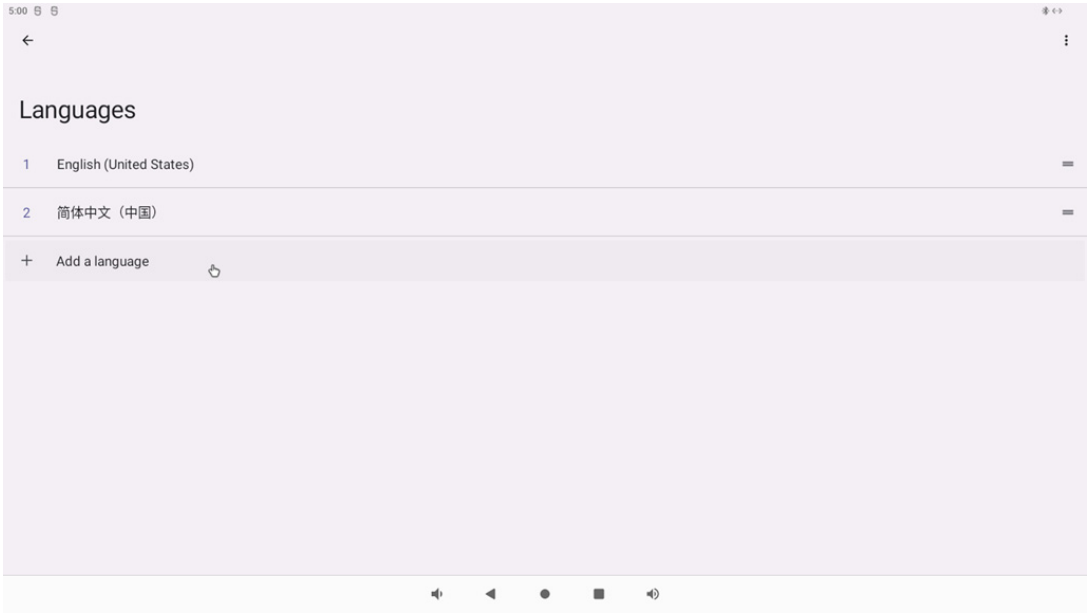
- To set up an account, click "Account".
- Click "+ Add account".
- Enter an email account.
- Enter the type of account you want to add (personal - POP3 or update - IAMP).
- Follow the instructions to complete the setup steps.

2.6.2.11 System

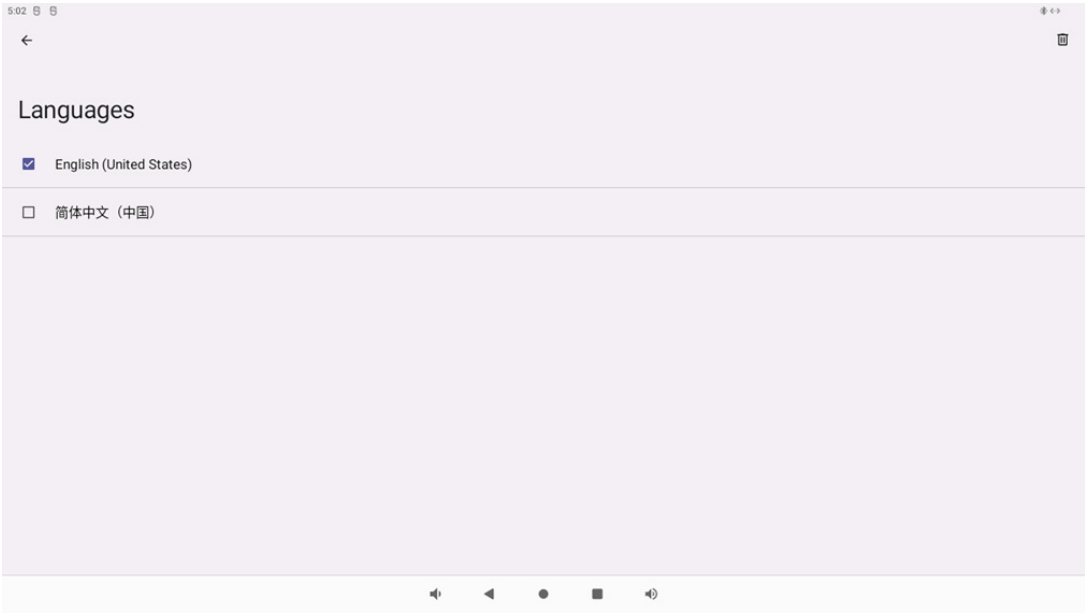
To change the Settings, go to Settings → System

2.6.2.11.1 Language and Input

- To change the language, click on "Language and Input".
- Click on "Languages".
- Click "+ Add language" and select the language you want to add (e.g. Simplified Chinese) from the list of languages.



- To change the language, such as from English to Chinese, click "English" and then click.
- Click “OK” to remove the selected language.

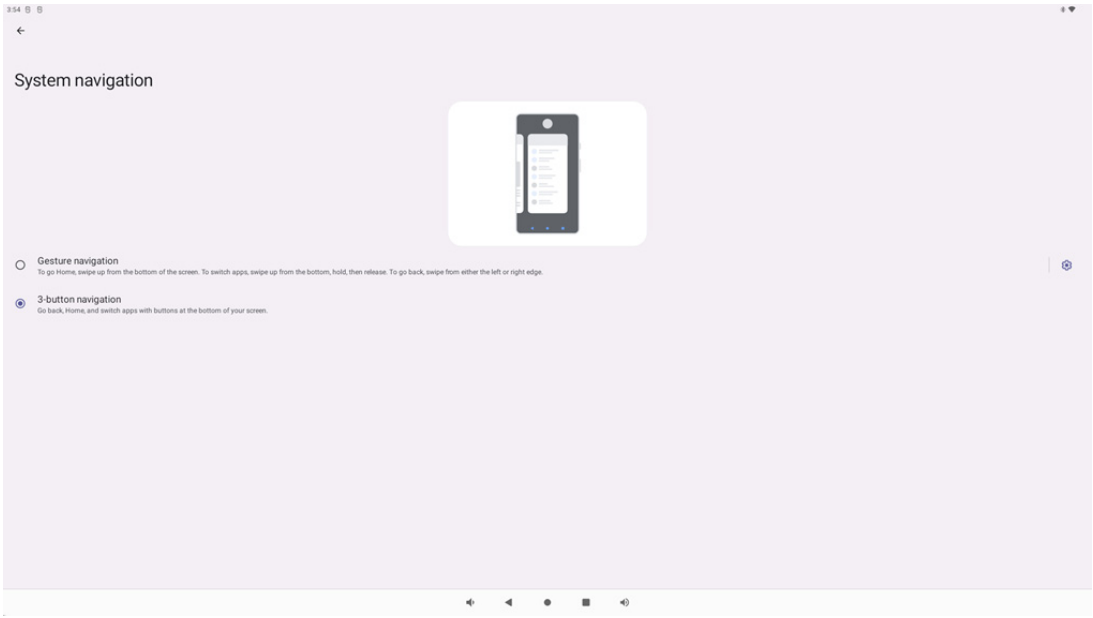


2.6.2.12 Hand Gesture

- Click "Gestures."
- For camera gestures
  - Click "Go to camera".
  - Click "Jump to camera" to enable or disable it.
  - When set to enabled, pressing the power button twice to enable the digital camera.

2.6.2.13 System Navigation

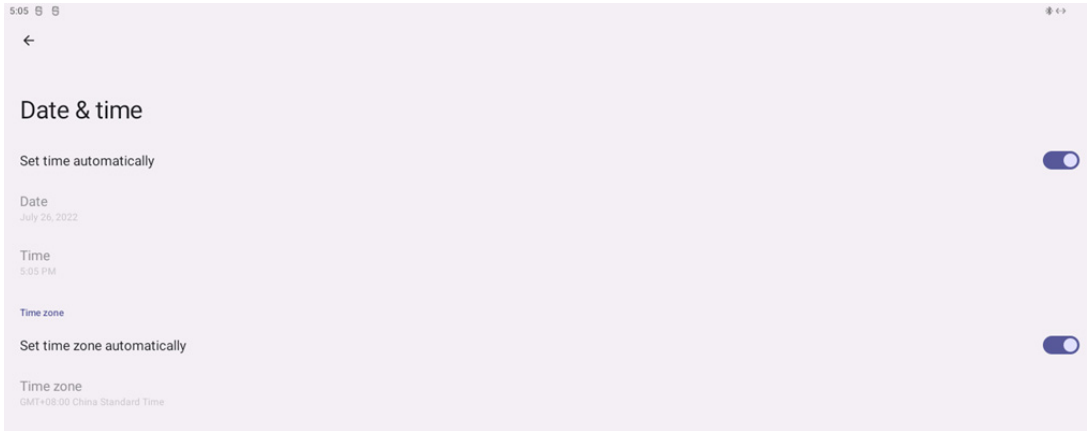
- Click system navigation
- Choose your preferred navigation



2.6.2.14 Date and Time

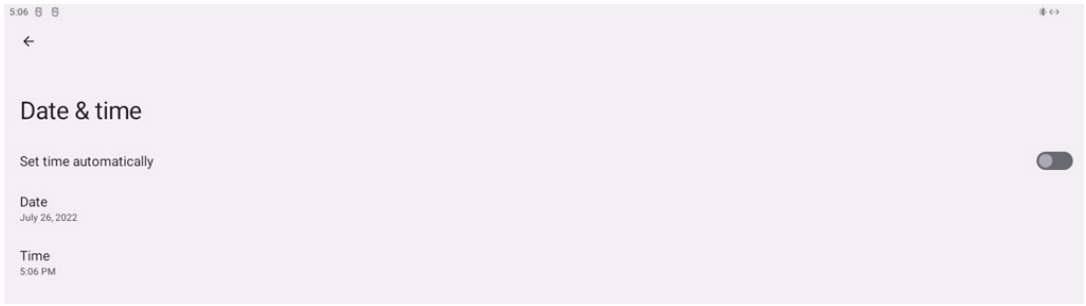
Note! *It is recommended to “use the time provided by the network” for the Date and Time setting.*

If the time zone is set to "Use the time provided by the network," you need to use the network to work properly.

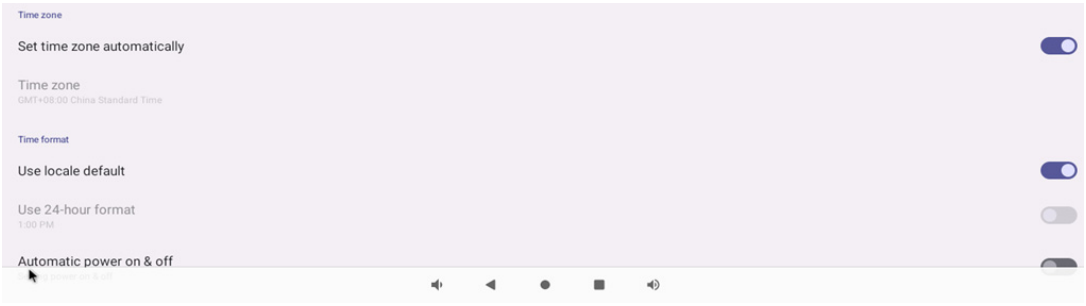


To do this manually:

- Click the date and time.
- To set the date and time manually, click “Use the time provided by the network”.
- Click date.
- Click time.



To set time zone, click "Network provided time" and select your time zone.

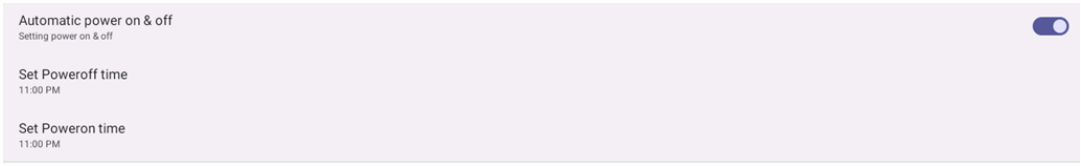


To set the 12-hour format, click "Use Default location."

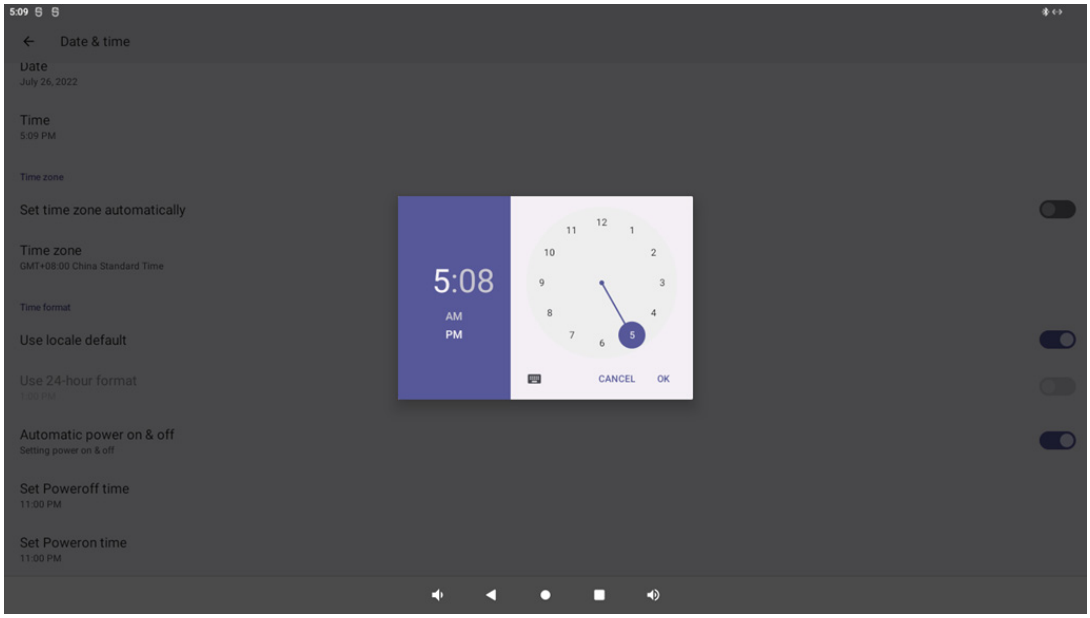
- To set the 24-hour format, click Use 24-hour Format.

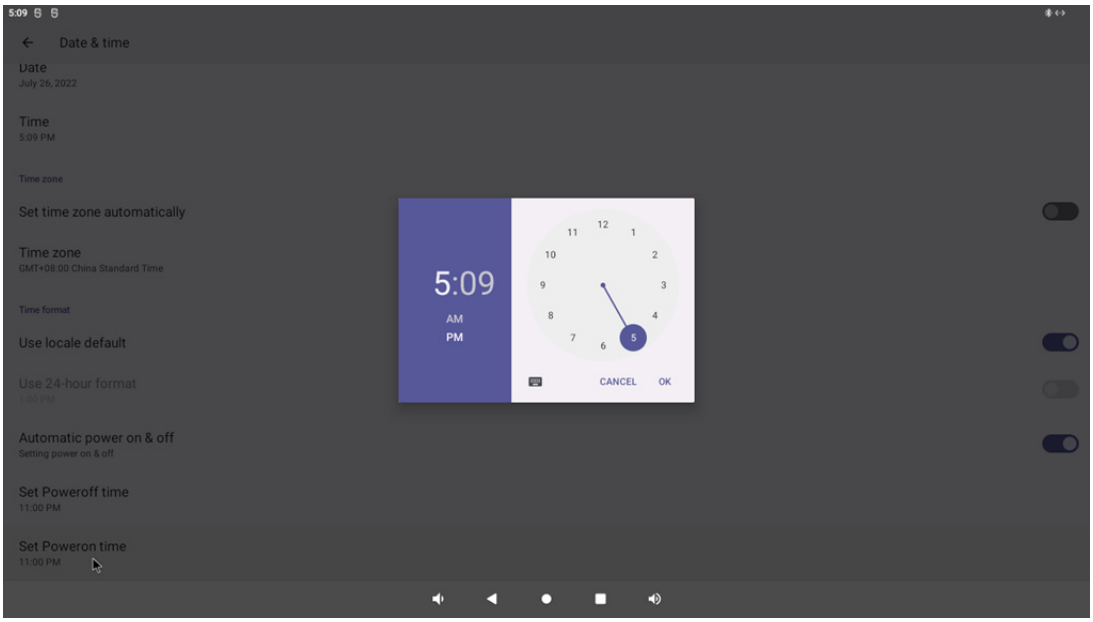
2.6.2.14.1 Automatic Power on & off

- Click Automatic power on&off to enable



Click Set Poweroff time & Poweron time





2.6.2.15 Advanced Setting

2.6.2.15.1 Reset options

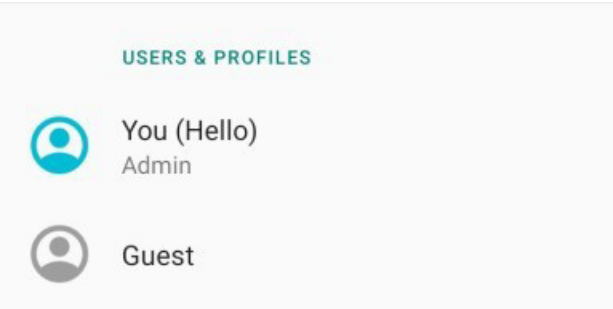
- To select the following options to reset, click Reset Options.
- Select the item you want to reset from the list, then click Execute and follow the onscreen instructions.

2.6.2.15.2 Multiple Users

- Click "Multiple Users."
- Click switch to enable

2.6.2.15.3 User Switch

- Click the user or name in the following options.



2.6.2.15.4 Add User

Note! *Only administrators can add users.*

To set up restricted access to applications and content for users, click the instructions on the Restricted Information screen to complete account setup.

2.6.2.15.5Remove the Guest from the Device

- Click the 3-point menu in the multiuser screen.
- Click to delete guest from this device.

2.6.2.15.6Rename the Administrator Information

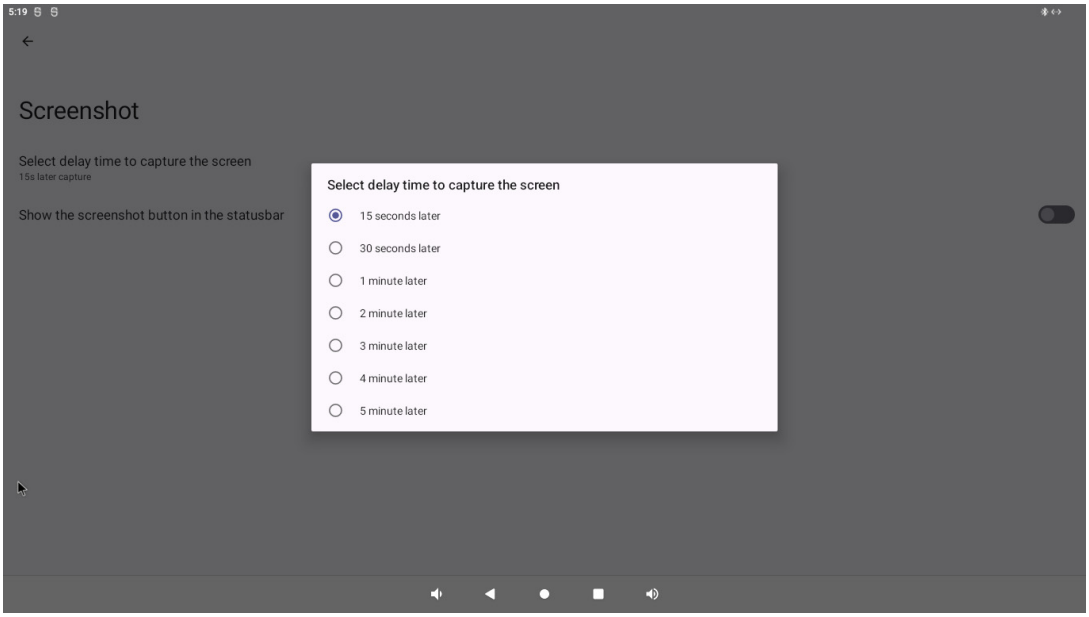
- Click administrator
- Enter a name.
- Click OK to save.

2.6.2.15.7Developers (Visit the Developer Options Menu)

- To access the developer options menu, go to About Tablet → Version number.
- Click the version number 7 times, you will see a message: "You are now a developer".
- Then go back to → system → advanced.

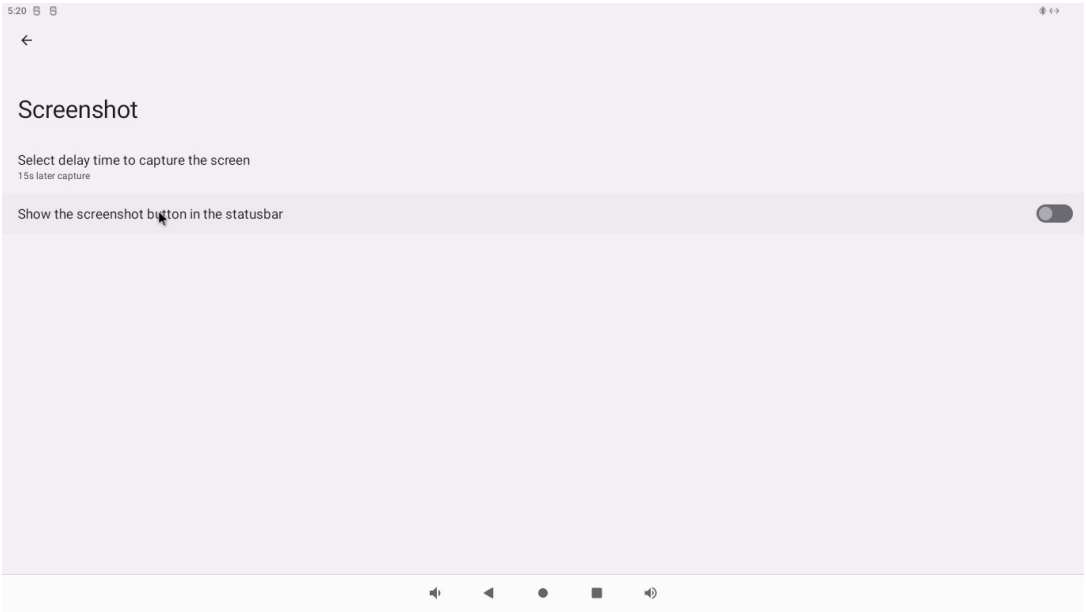
2.6.2.15.8 Screenshot

- Screenshot Settings,
- Set the time between pressing the screenshot button and taking a screenshot, delay screenshot setting -

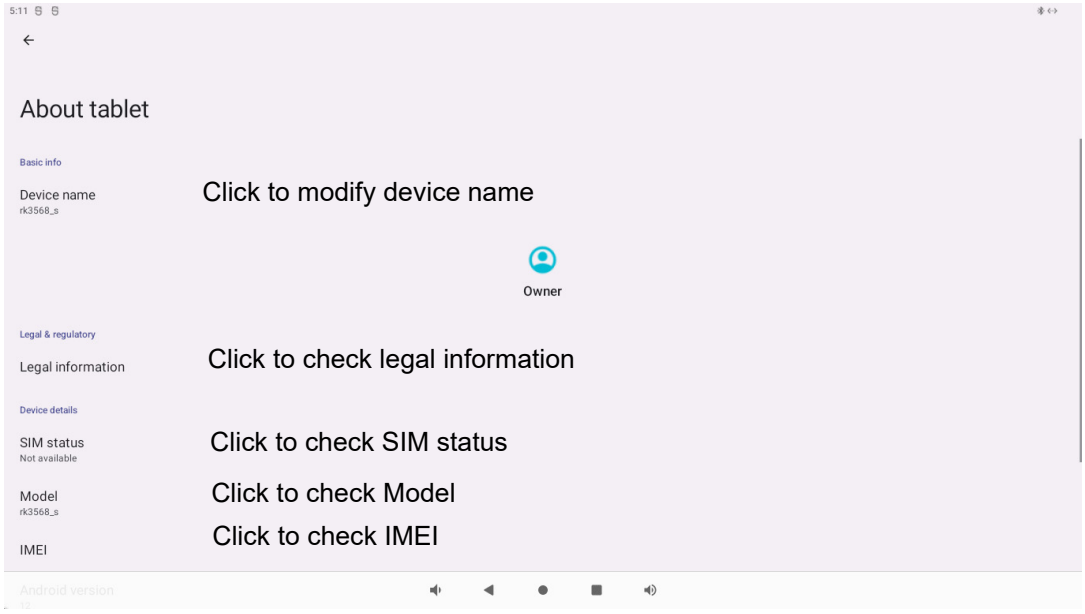


- Display a screenshot button on the statusbar

- Displayed in the statusbar
- Enabled
- Not shown in the statusbar
- Closed



2.6.2.16 About Tablet and System Information



2.7 Jumpers and Connectors

Connectors on the PCM-UP04 motherboard link it to devices such as hard disk drives and a keyboard. In addition, the board has a number of jumpers used to configure your system for your application.

The tables below list the function of each of the board jumpers and connectors. Later sections in this chapter give instructions on setting jumpers and gives instructions for connecting external devices to your motherboard.

Table 2.4: Jumpers

Label	Function
JP1	BKLT_EN Power select
JP2	Panel_PWM Power select
JP5	Clear CMOS
JP6	ATX/AT select
JCASH1	Cash drawer + 12V/+20V select

N POWER

PIN3 3.3V

JP2

PIN1 5V

PIN2 Panel PWM POWER

PIN3 3.3V

JP5

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS

JP6

PIN1 ~ PIN2 IS AT Model

PIN2 ~ PIN3 IS ATX Model

JCASH1

PIN1 12V

PIN2 Cash Drawer Power

PIN3 20V

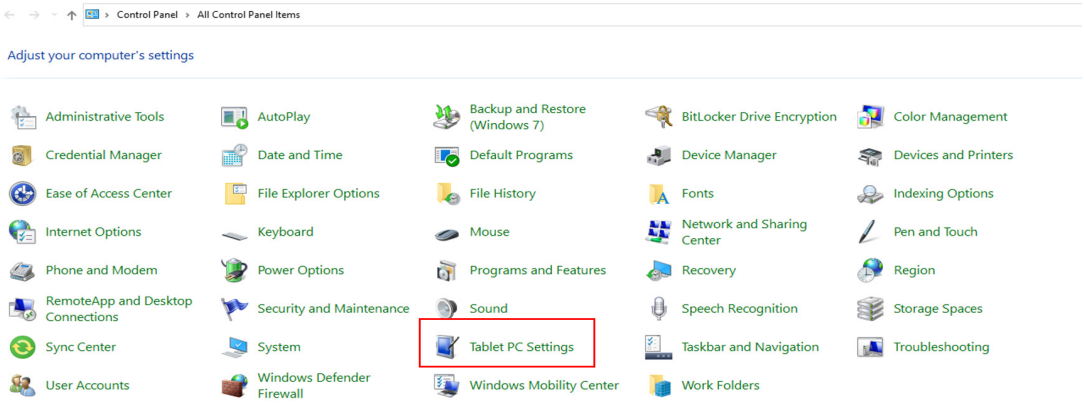
Note! *PCB silkscreen "?"mark PIN1*

Table 2.5: Connectors	
Label	**Function**
TYPEC3	Power in Connector
CN73	Cash Drawer
CN100	Power Button & Connector
CN21	M.2 2280 M key Connector
CN23	Speaker Connector
CN25	Speaker Connector
CN30	M.2 2230 E key Connector
CN33 CN15 CN14	Internal USB Connector
CN75, CN77	Real USB3.0+USB2.0
CN80	eDP Connector
LAN1	LAN Connector
CN84	LINE OUT/MIC Connector
CN78	Power Button Connector
TYPEC1	DP/USB3.0
TYPEC2	DP/USB3.0
DIMM1	Memory Socket
CN72	GPIO Power

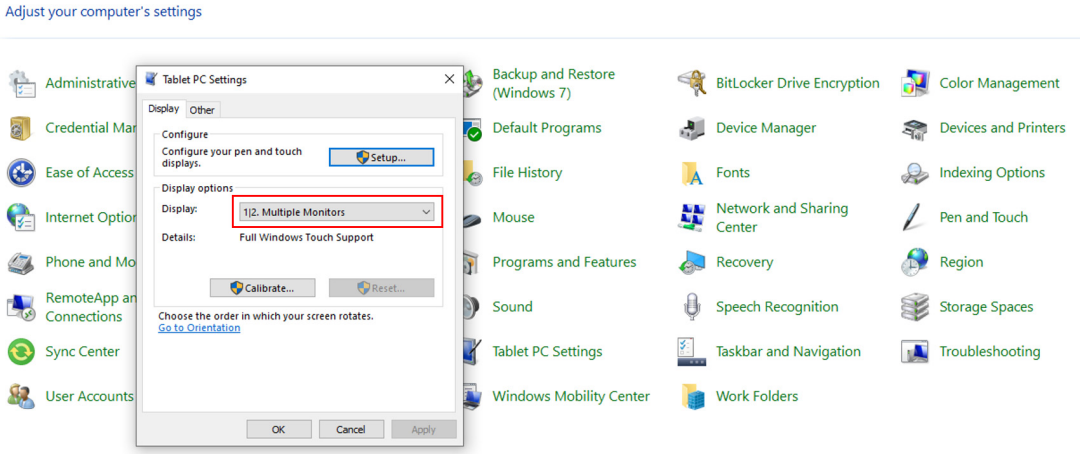
2.8 Capacitive Touch Extend Display Set SOP

If you use dual display, you'll refer the below instruction for touch screen

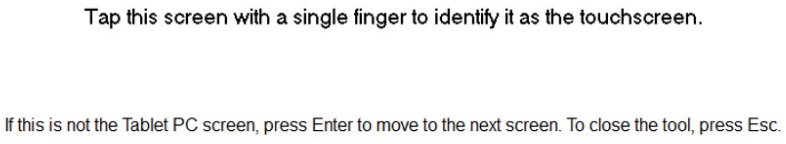
1. Open control panel, choose tablet PC, refer below picture



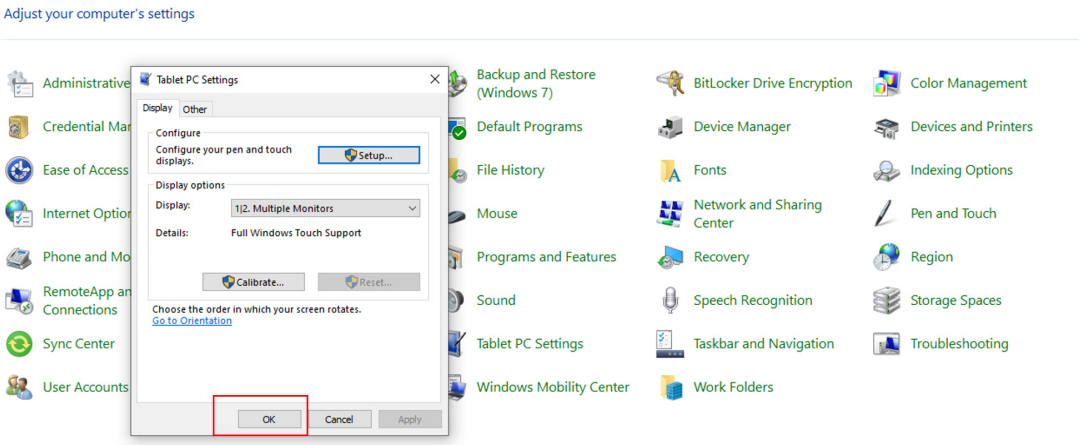
2. Double click “Tablet PC Setting”, click setup.



3. USC-360 main screen will show below picture, please touch main touch screen, then Press keyboard “Enter”; then on second display see same picture, if the second display has touch function, please touch it; if the second display no touch function, then Press keyboard “Enter”.



4. It will show below picture, then click “ok”, setup finished.



Chapter 3

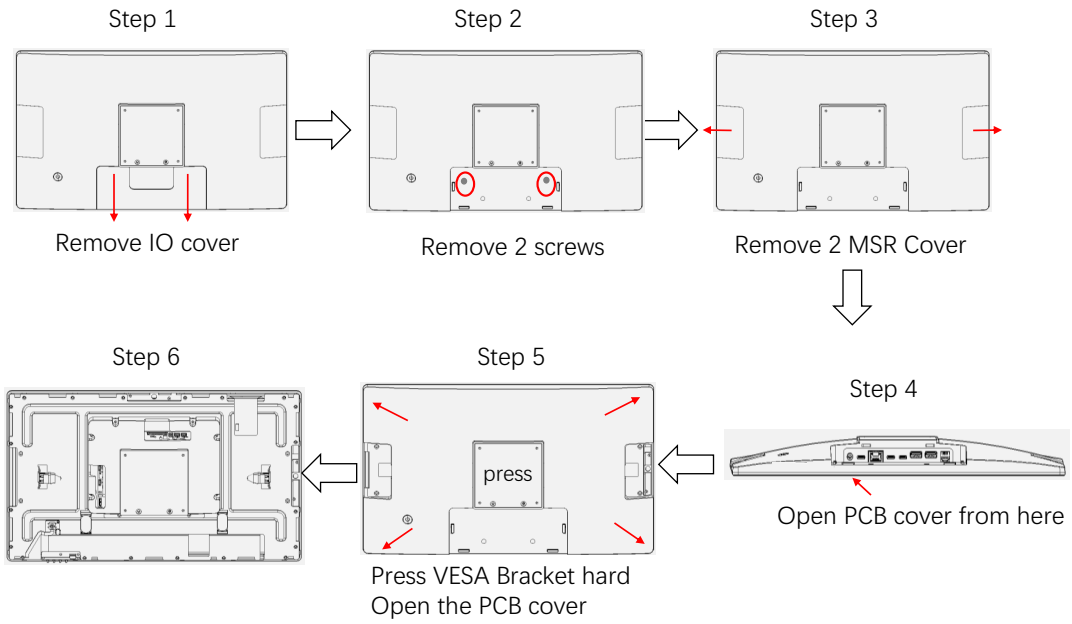
Hardware Installation

This chapter details the hardware installation SOP.

Sections include:

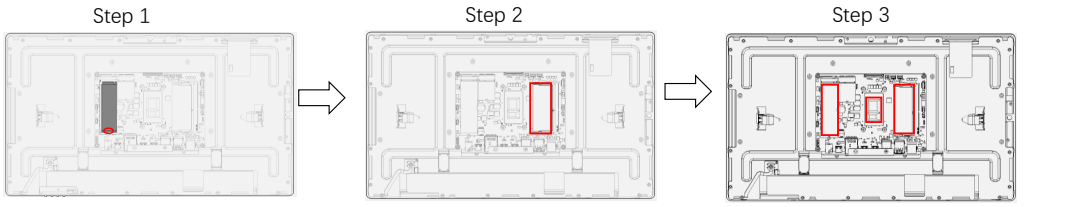
- Cover Installation
- Stand Installation
- Customer second Display Installation
- Peripheral Installation

3.1 PCB Cover and I/O Cover Installation

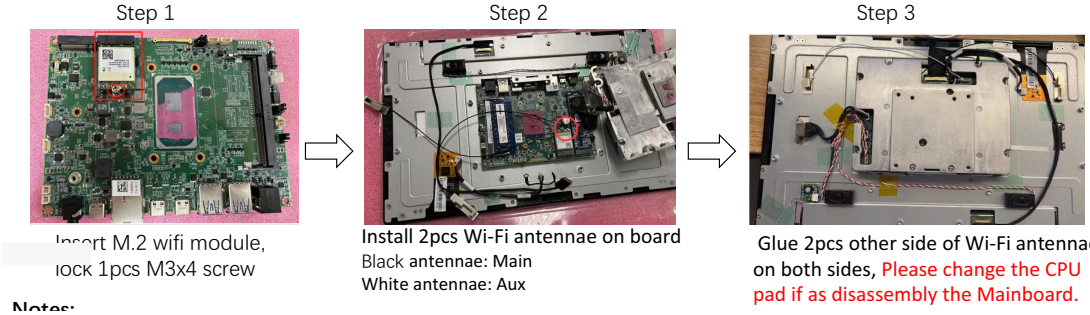


3.2 SSD/RAM and Wi-Fi Installation

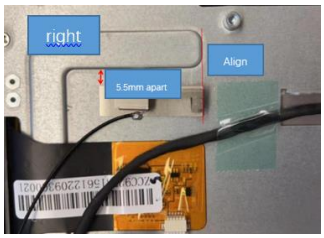
3.2.1 Install RAM/SSD

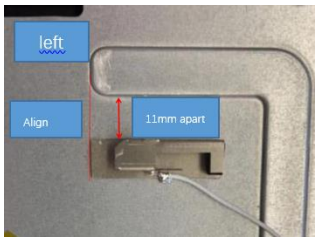


3.2.2 Install WIFI module on the M.2 port for USC-360J/USC-360H/ USC-360N



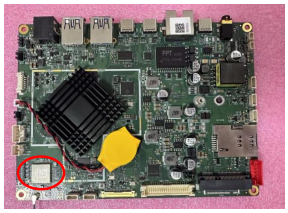
Notes:





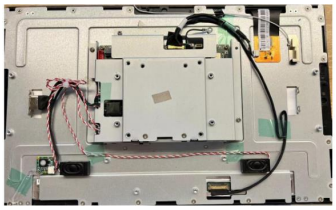
3.2.3 Install WIFI Module on the M.2 Port for USC-360D (on Board wifi Module)

Step 1

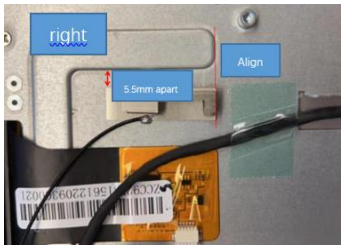


On board WiFi module

Step 2



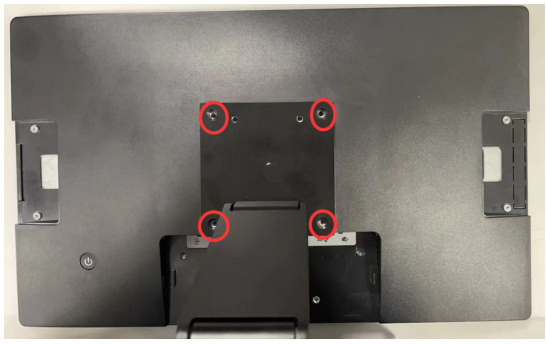
Install 1pcs Wi-Fi antennae on the wifi module



3.3 Stand, VESA Cover, Short Side Peripheral and Scanner Installation

3.3.1 Stand Installation (USC-360D/J/H)

Find 4 holes for 4pcs screws (M4X6L) to install stand.

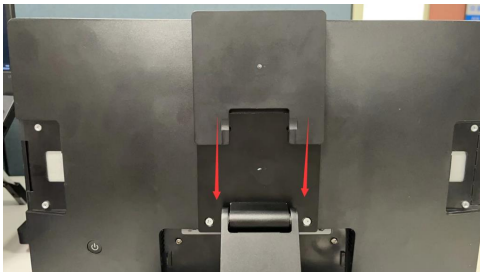


3.3.2 Stand Installation (USC-360N)

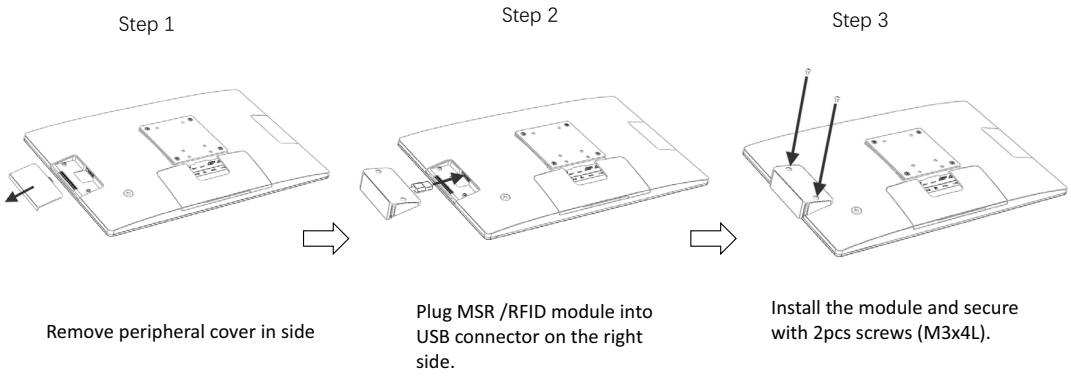
Plug the cables and then insert the neck with stand, fasten two screws to fix stand.

3.3.3 VESA Cover Installation

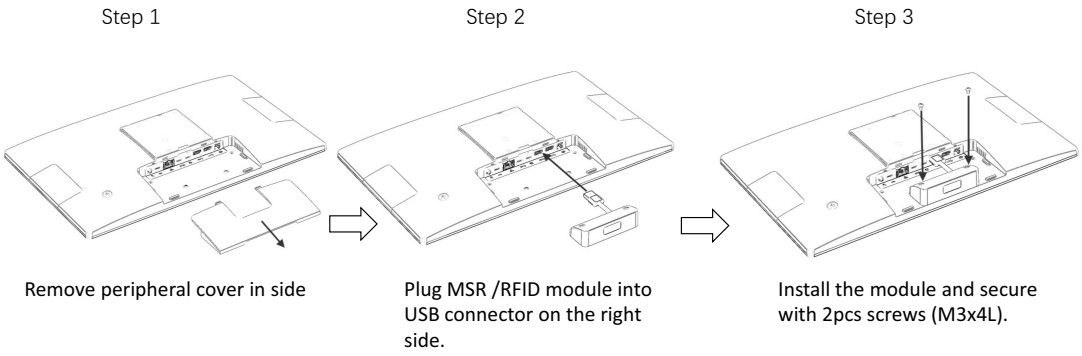
Insert to install VESA Cover



3.3.3.1 Short Side Peripheral Installation



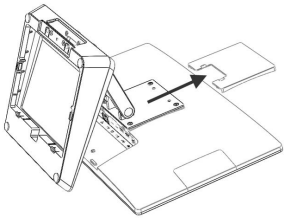
3.3.4 Install Scanner on IO Side



3.4 Guest Display Installation

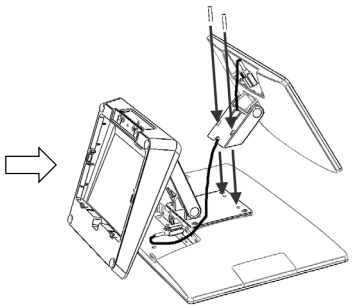
3.4.1 10.1” 2nd Display Rear Mount Installation (USC-360D/J/H)

Step 1



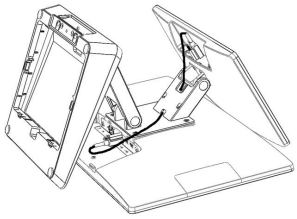
Remove VESA cover and cable cover to expose screw holes

Step 2



Before attaching 10.1” display to the rear of USC-360 with 2pcs screws (M4*20L), need Type-C cable to traverse rear mount bracket of 2nd display.

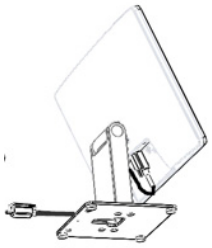
Step 3



Connect the other end of Type-C cable to Type-C IO used for DP in USC-360.

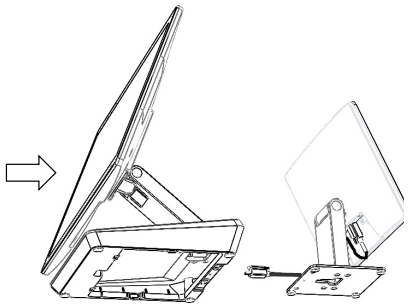
3.4.2 10.1” & 15.6” 2nd Display Installation

Step 1



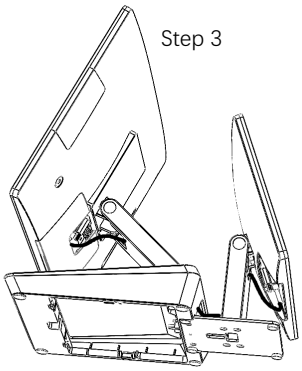
Make Type-C cable traverse the single hinge stand of 2nd display firstly.

Step 2



Plug Type-C cable to Type-C IO used for DP in USC-360.

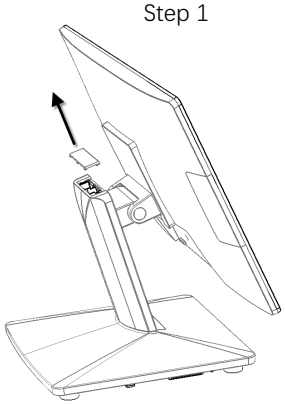
Step 3



Integrated 2nd display stand and USC-360 stand with the hook and hole in the stand base.

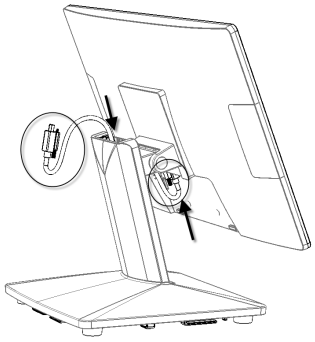
3.4.3 2nd Display Rear Mount Installation (USC-360N)

Step 1



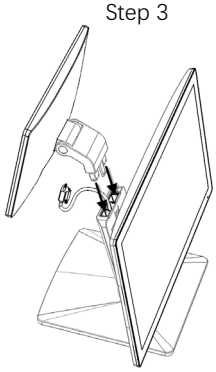
Remove the cover.

Step 2



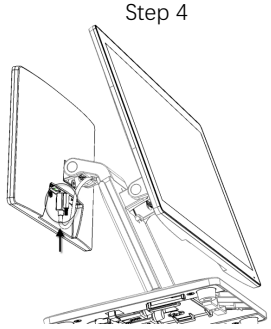
Plug the Type-C cable on USC-360N and then insert the cable through the stand as picture shows.

Step 3



Insert the second display hinge into base.

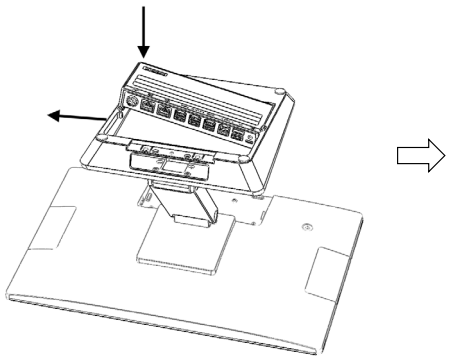
Step 4



Plug the Type-C cable on second display.

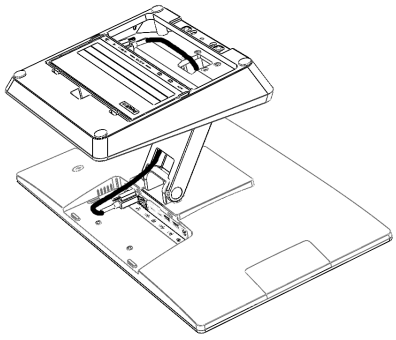
3.5 Hub Installation

Step 1



Firstly put one side of Hub into the slot of base, then push the other side of the Hub down as you pull the other side of the slot outwards with your hand.

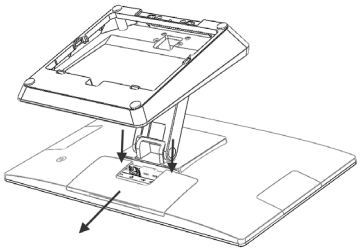
Step 2



Make Type-C cable traverse the base, and then connect the cable to I/O.

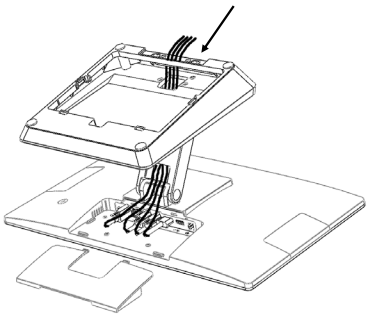
3.6 Cable Routing Installation

Step 1



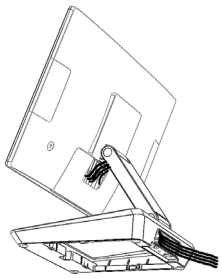
Press and remove cable cover

Step 2



Make the I/O cables traverse the base shown as below pic and put them straight, then connect the cables to the I/O board of the screen.

Step 3

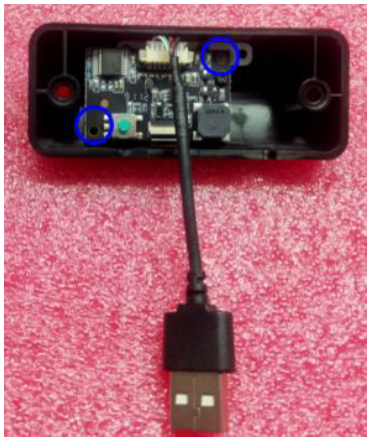


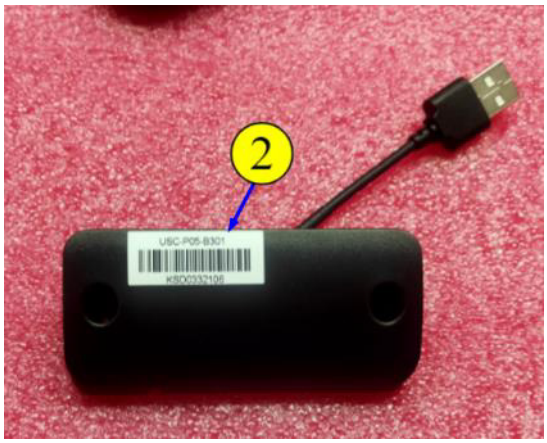
Replace cable cover

Appendix A

Others

A.1 USC-P05-Bxxx (Barcode Scanner for USC-360 Right I/O Side)





A.1.1 Specifications

Table A.1: Specifications

Interface	USB
Scanning Performance	**Sensor:** 640X480 CMOS **Illumination:** White LED **Aiming:** Red LED 625nm **Symbologies:** 2D (PDF417, QR Code, Data Matrix), 1D (Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey) **Recognition Accuracy:** ≥4mil **Scan Angles:** Tilt: 360°, Pitch±60°, Skew±60° **Field of View:** Horizontal: 42°, Vertical: 31.5° **Symbol Contrast:** ≥25%
Typical Reading Distances Standard	**EAN-13:** 65mm~330mm(13mil) **PDF 417:** 65mm~110mm(6.67mil) **Code 39:** 65mm~150mm(5mil) **Data Matrix:** 50mm~110mm(10mil) **QR Code:** 45mm~140mm(15mil)
Operating Temperature	-20°C~+50°C
Power Supply	3.3VDC±5%

A.1.2 Packing List

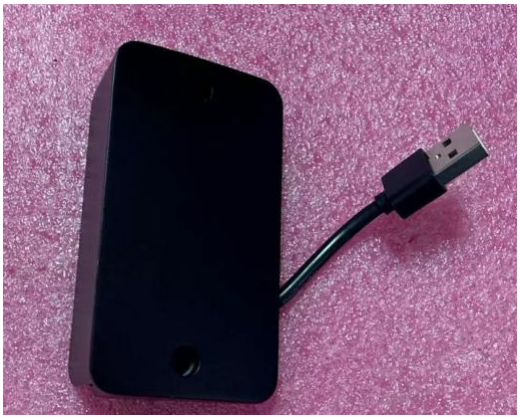
Table A.2: Packing List

Description	Quantity
Barcode Scanner Unit	1
Barcode Scanner Bracket	1

A.1.3 Ordering Information

Table A.3: Ordering Information	
P/N	**Description**
USC-P05-B300	Barcode Scanner for USC-360
USC-P05-B301	Barcode Scanner for USC-360 IO side

A.2 USC-P03-B304 (MSR)



A.2.1 Specifications

Table A.4: Specifications	
Interface	USB
Reference Standards	ANSI/ISO Standards 7810, 7811-1/6, 7813
Recording Method	Two-Frequency Coherent Phase (F2F)
Decoding Method	ISO: Track1 – IATA, Track2 – ABA, Track3 –THRIFT
Card Swiping Direction	Bi-directional
Dimensions	21.01 x 46.5 x 81mm
Lift	Electronics: 125,000 hours (under normal use conditions) Head: 1,000,000 passes (number of swipes)
Operating Temperature	0~+55°C
Humidity	10~90%
Power Supply	DC 5V, Though USB Interface Cable
Card Wiping Speed	Card speed through the unit may vary from 3 ips to 100 ips (7 cm/s to 250 cm/s)

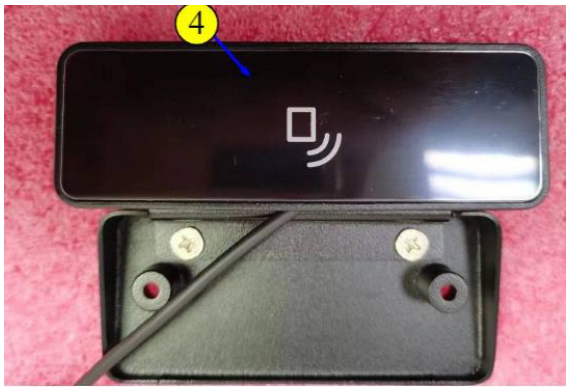
A.2.2 Packing List

Table A.5: Packing List	
Description	**Quantity**
Magnetic Stripe Reader Unit	1
Magnetic Stripe Reader Bracket	1

A.2.3 Ordering Information

Table A.6: Ordering Information	
P/N	**Description**
USC-P03-B304	MSR007GH,USB,blk,slim, for USC-360

A.3 USC-P03-B301 (RFID Scanner)



A.3.1 Specifications

Table A.7: Specifications	
Interface	**HID-USB**
Frequency	13.56MHz
RFID R/W Mode	Support ISO/IEC 14443A/MIFARE Reader, FeliCa Reader, ISO/IEC 14443B Reader
OS Support	Windows, Linux, Android
Dimensions	50 x 30 x 1mm
Power Supply	DC+5V ±10%
Operating Temperature	0~ +50°C
Relative Humidity	10%~90%

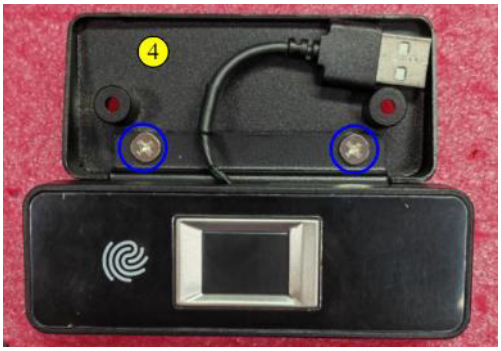
A.3.2 Packing List

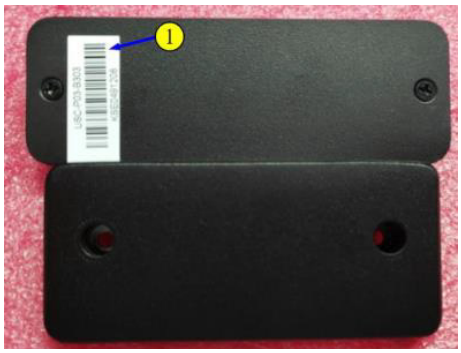
Table A.8: Packing List	
Description	**Quantity**
RFID Module Unit	1
RFID Module Bracket	1

A.3.3 Ordering Information

Table A.9: Ordering Information	
P/N	**Description**
USC-P03-B301	RFID Scanner for USC-360

A.4 USC-P03-B303 (Finger Print Reader)





A.4.1 Specifications

Table A.10: Specifications	
Interface	USB
Power	3.0V – 3.6V
Fingerprint Image	12.8 x 18.0mm (256x360 pixels) 508 dpi, 8-bit grayscale
Sensor Coating	FIPS 201 (gold coating)
Package Size	23mm x 35mm x 4.1mm
ESD	IEC 61000 – 4.2 level, +/- 15KV air, +/- 8KV contact
Ingress Protection	IP65
Operating Temperature	-30~ +70°C
Humidity	5% - 93% non-condensing

A.4.2 Packing List

Table A.11: Packing List	
Description	**Quantity**
Finger Print Reader Unit	1
Finger Print Reader Bracket	1

A.4.3 Ordering Information

Table A.12: Ordering Information	
P/N	**Description**
USC-P03-B303	Finger Print Reader for USC-360

A.5 USC-P06-H02 (UP37 HUB)

A.5.1 Specifications

Table A.13: Specifications	
Product Name	COM and USB Hub
Power Supply	N/A
I/O Interface	4*RS-232; 6*USB2.0
Environment	0-40°C

A.5.2 Packing List

Table A.14: Packing List	
Description	**Quantity**
UP37 HUB	1

A.5.3 Ordering Information

Table A.15: Ordering Information	
P/N	**Description**
USC-P05-H02	USC-300 Series UP37 Extension Hub, 4C6U

A.6 USC-P06-H01 (UP36 HUB)

A.6.1 Specifications

Table A.16: Specifications	
Product Name	COM and PowerUSB Hub
Power Supply	180W(24V/7.5A)
I/O Interface	2*RS-232; 1*24V PowerUSB; 3*12V PowerUSB
Environment	0-40

A.6.2 Packing List

Table A.17: Packing List	
Description	**Quantity**
UP36 HUB	1

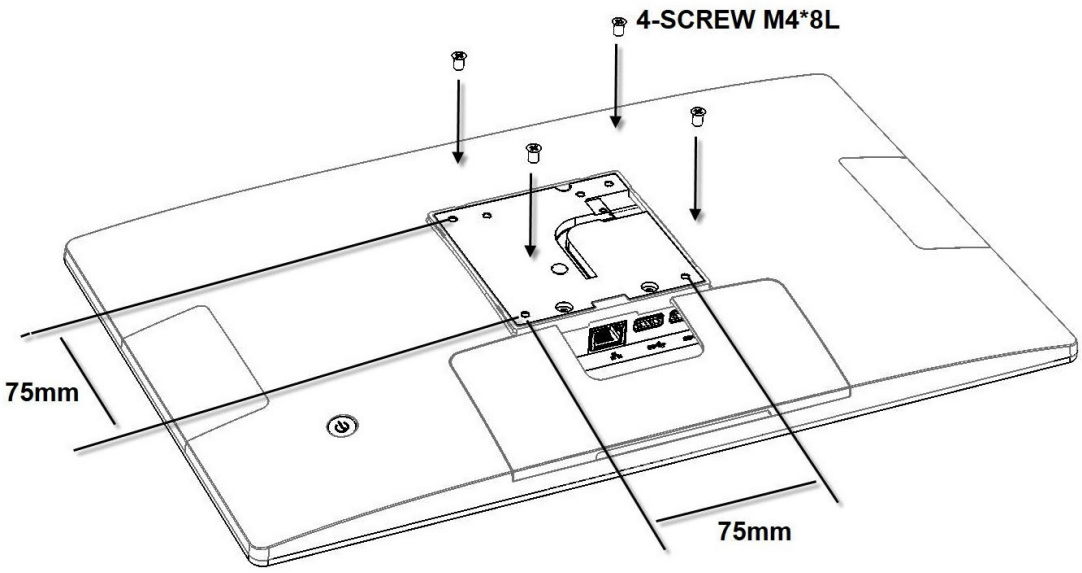
A.6.3 Ordering Information

Table A.18: Ordering Information	
P/N	**Description**
USC-P05-H01	USC-365 Series Extension Hub (COM & PowerUSB)

A.7 VESA Mounting Hole Pattern

The rear side of the has a VESA-compatible mounting holes with 75 x 75 mm.

- Screw-in depth VESA mounting hole pattern: M4 x 8 mm for 75 x 75 mm



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