

TOUCH SCREEN POS MACHINE-SERIES

Faster & Stronger. Newly upgraded specifications makes it work more smoothly without any stuck.

PSJ8500 (Dual Screen)

- Industrial grade touch screen, anti-interference, more stable.
- 15.6"main screen + 11.6"customer screen, bringing a different user experience.



PSJ8500-N97 Motherboard User Guide



Manual

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Safety Instructions

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To assist you in using the PSJ8500-N97 motherboard, please carefully read the [User Manual]. For product-related information, please thoroughly read this safety guide. You can find the version label [JSJ-PSJ8500-V10] on the motherboard. When updating the motherboard's BIOS, drivers, or referring to other technical documentation, please note the product version label.

Safety Precautions:

1. Please carefully read the product manual before using this product.
2. Uninstalled circuit boards should be stored in anti-static protective bags.
3. Before removing circuit boards from anti-static bags, touch a grounded metal object (e.g., for 10 seconds) to discharge static electricity from your body and hands.
4. When handling circuit boards, wear static protection gloves and develop the habit of only touching the edges.
5. To prevent electric shock and product damage, always turn off the AC power before removing or reconfiguring hard drives and memory modules.
6. Turn off the AC power before moving hard drives, memory modules, or the entire motherboard.
7. When replacing or removing components from the motherboard, always turn off the AC power first.
8. Turn off the AC power before connecting or disconnecting any device.
9. To avoid unnecessary damage from frequent power cycling, wait at least 30 seconds before turning the device back on after shutting it down.

Chapter 1: Introduction

1.1: Motherboard Specifications

Motherboard Dimensions	- 92mmX103mm
Central Processing Unit	- Intel® N97 Processor - Base frequency 2.00GHz, Turbo frequency 3.60 GHz - Quad-core, four threads, 6M cache - TDP: 12W
Memory	- Onboard 1 x 260Pin DDR4L SO-DIMM slot - Supports 1.2V DDR4L SO-DIMM memory - Maximum support for 16GB per module
Expansion Slots	- 1 x M.2_NGFF Socket2slot Supports M.2 NGFF Socket2 interface SSD
Rear Panel I/O Ports	- 1 x DCIN 5525 port - 1 x RJ45 LAN port - 2 x USB3.0 port - 2 x USB3.0 port - 1 x RJ45 COM port - 1 x Audio port (2in1-HP_Out/ MIC_IN)
Internal Connectors	- 1 x 3PIN2.54pitch power connector - 2 x EDP+USB display connectors - 4 x F_USB2.0 2.0MMpitch header connectors - 1 x Front panel header (FPANEL) - 1 x Internal COM 4PIN 2.0 pitch header - 1 x 2.0pitch speaker header (SPEAKER)
BIOS	- AMI BIOS
Power Management	- Supports advanced power management ACPI: S3; S5
Display	- Supports dual display (EDP + EDP)
Networking	-1 x Rtl 8821ce wifi5G+4.2 Bluetooth -1 x YT6801 Ethernet
Audio	- Realtek ALC897
I/O Controller	- ITE8625E
Power Supply	DC 12V power supply / 1*3PIN DC 12V power supply
Operating Environment	- Operating temperature: -15°C~60°C - Relative humidity: 0%~95%
Operating System	Windows 11 /Windows 10/Linux

1.2 : Rear I/O Panel



Item	Detail
DCIN1	Power Supply 12V
LAN	YT6801 Ethernet
	Link LED: Green solid light indicates network connection
	Active LED: Orange flashing light indicates data transmission
WIFI	Rtl8821ce wifi5G+4.2Bluetooth
USB	USB3.0*2, USB3.0*2
COM	SIN,SOUT,GND&with power supply
HP_OUT1&MIC_IN	Serial port audio output & input

Chapter 2: BIOS Setup

2.1:BIOS Function Explanation

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

- A. Power-On Self Test (POST) to check if the computer is in good condition.
- B. Initialize and detect some external devices, and load your operating system.
- C. Provide the most basic control for your computer hardware.
- D. Manage your computer through the BIOS SETUP.

The BIOS data is stored in a CMOS RAM chip on the motherboard, maintained by a 3.3V button battery. It contains important system information and the BIOS Setup program for configuring system parameters. When the system is running normally, BIOS does not need to be modified. However, if CMOS data is lost due to other reasons, BIOS needs to be reset.

Note:

Improper BIOS settings can directly damage computer hardware or even burn the motherboard. Users who are not familiar with BIOS should be cautious when making changes.

Due to continuous BIOS upgrades on motherboards, the BIOS information in this manual is for reference only, and therefore we cannot guarantee the consistency between the BIOS information in this manual and the actual BIOS on the motherboard.

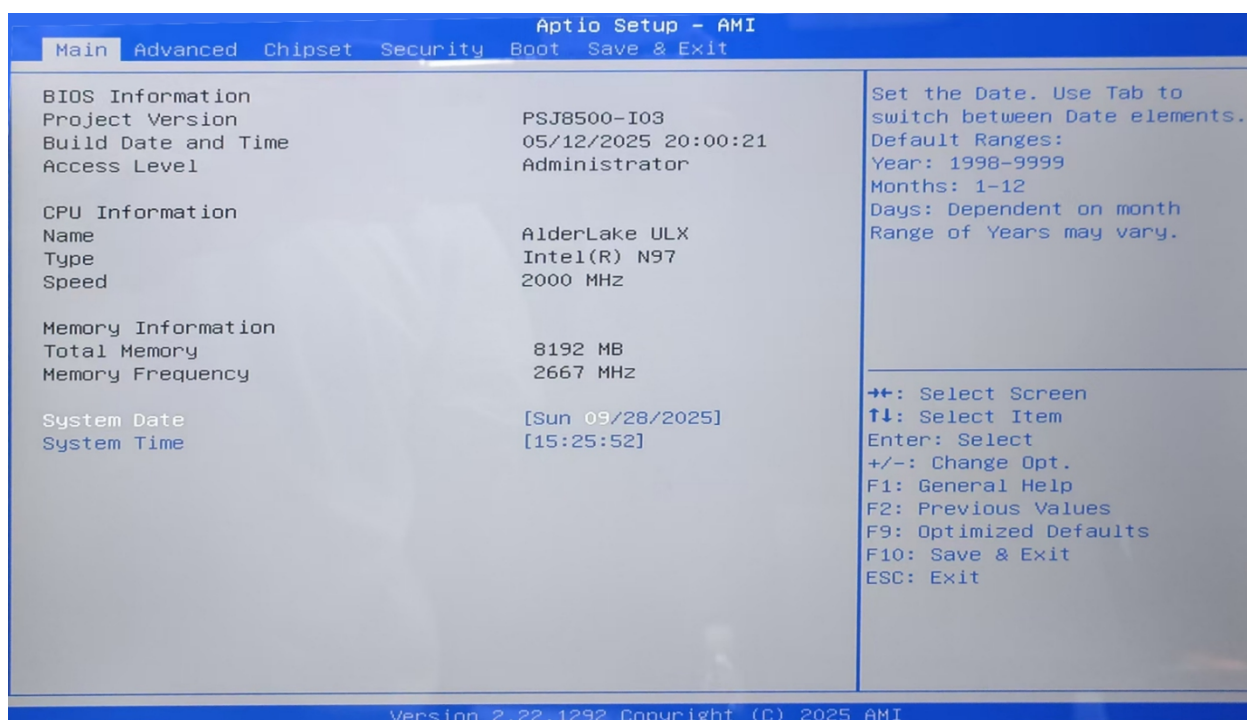
2.2:BIOS Setup

When the motherboard is powered on to boot or restart the system, press DEL or ESC to enter BIOS Setup at the POST screen, and press F12 to select the boot order.

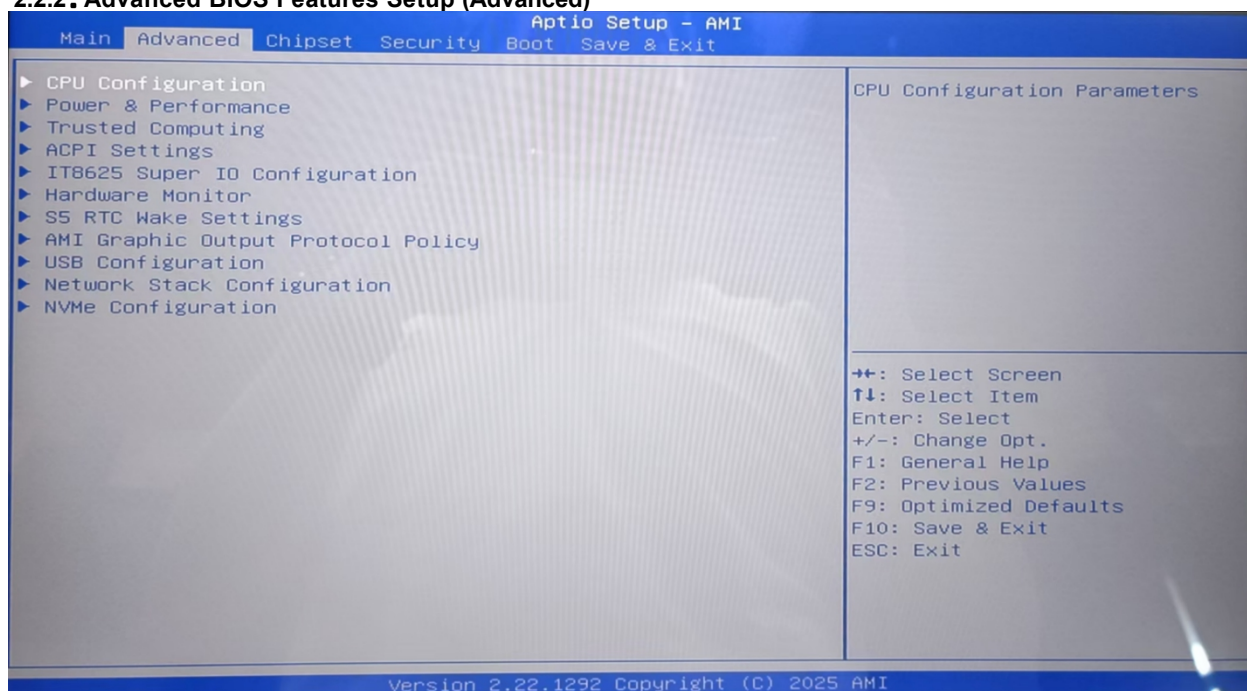
You can use the arrow keys to move options, press to make selections, and use Page Up and Page Down to change options. Press for help, and to exit. Detailed instructions are shown in the table below.

Control Key	Function Description
← / →	Use left/right arrows to move screen
↑/↓	Use up/down arrows to select items
+/-	Increase/decrease values or change options
<Enter>	Select this option to enter submenu
<ESC>	Return to main screen, or exit CMOS SETUP from main screen
<F1>	Display relevant help information
<F2>	Restore previous settings
<F3>	Load optimized defaults (BIOS initial values)
<F4>	Save changes to CMOS settings and reboot

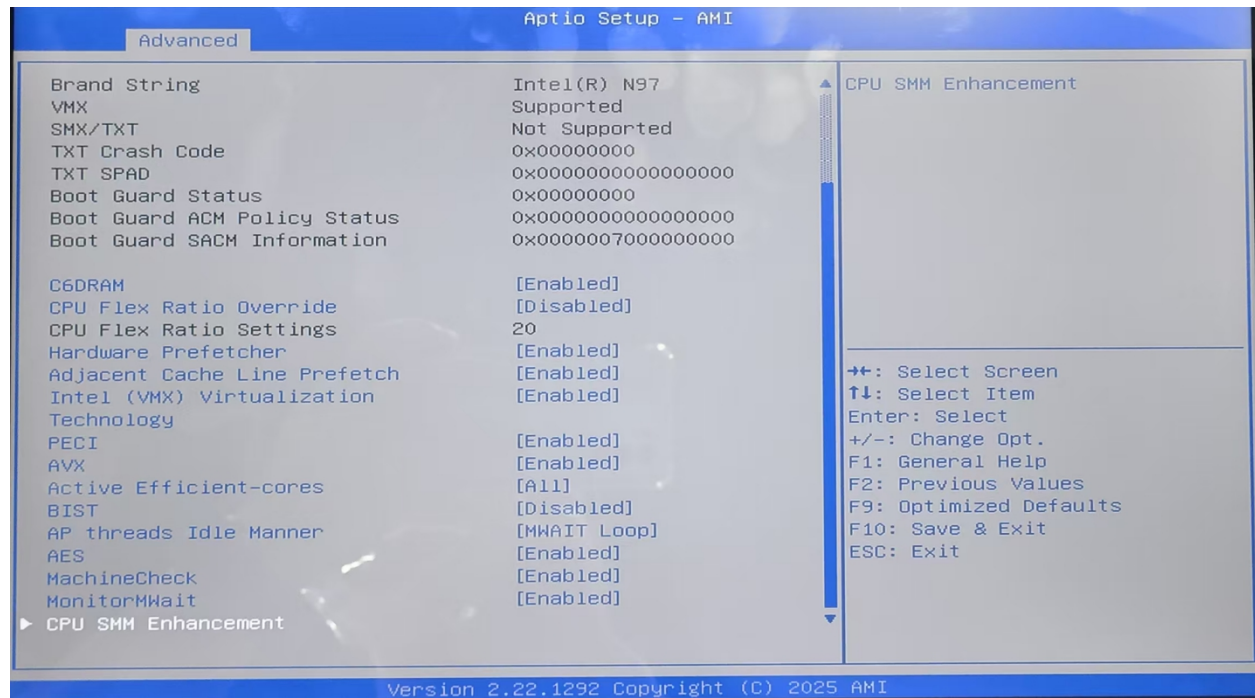
2.2.1 : Main Menu Information (Main)



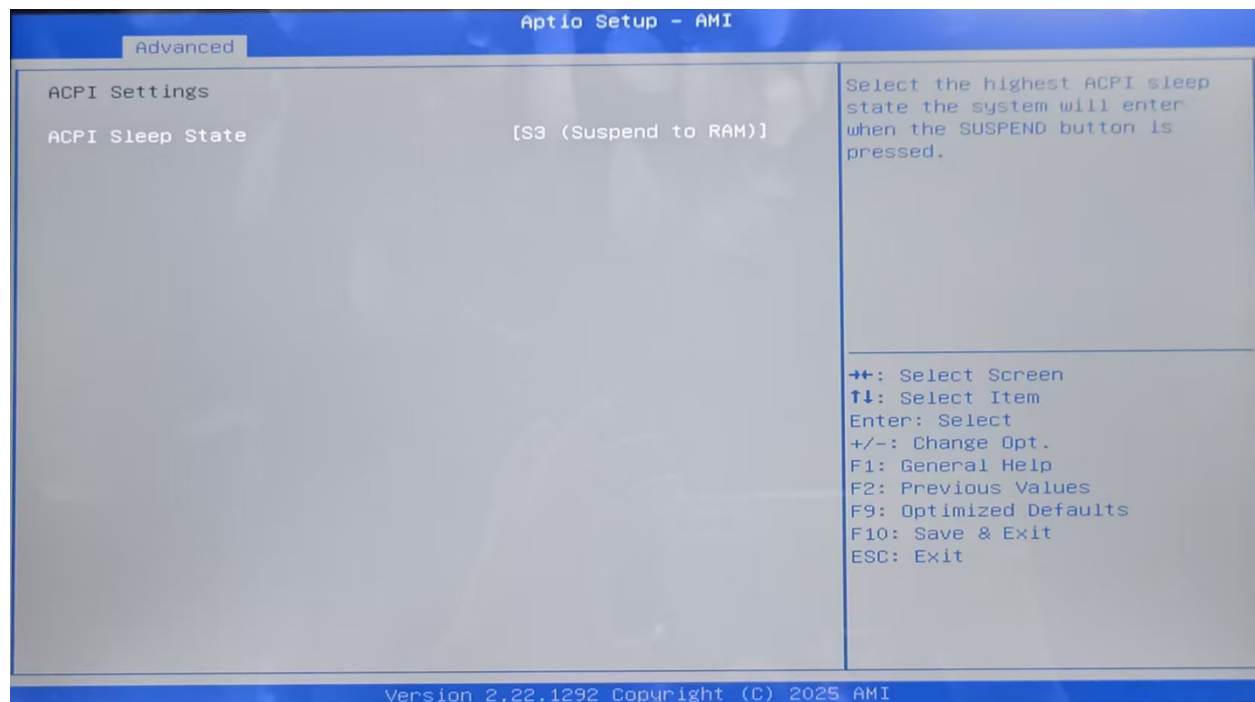
2.2.2: Advanced BIOS Features Setup (Advanced)



2.2.3:CPU Function (CPU Configuration)



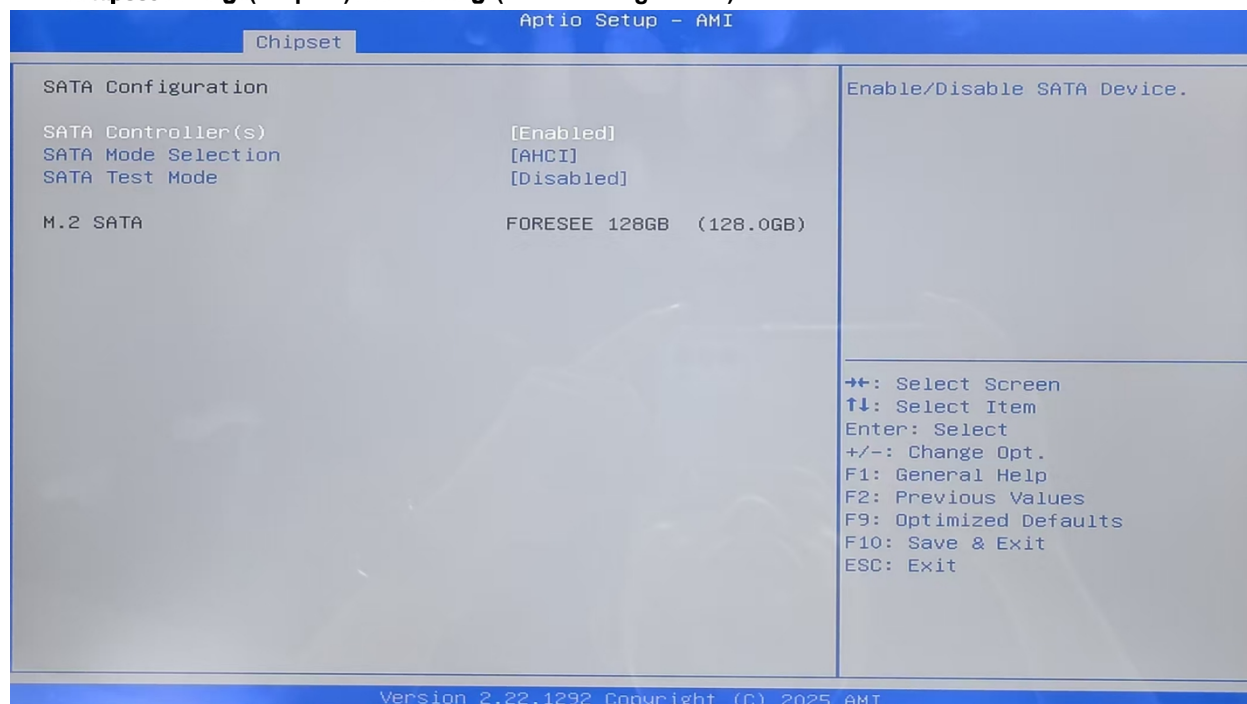
2.2.4 : ACPI Settings (ACPI Sleep State)



- **ACPI Sleep State**

This option is for setting the sleep mode, with selectable options S3 (Suspend to RAM) or Disabled

2.2.5 :Chipset Settings(Chipset)/SSD Settings(SATA Configuration)



•SATA Controller

Turn on or turn off SATA mode, Options: Enable, Disable.

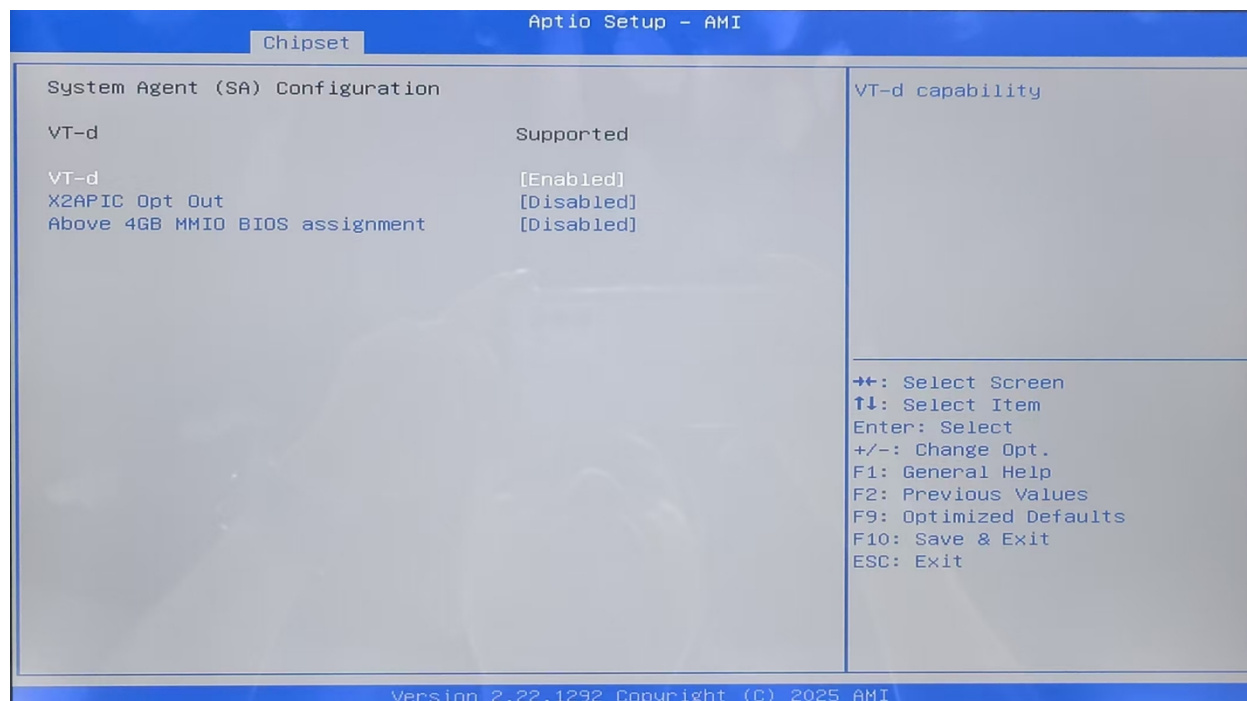
• SATA Mode Selection

SATA Mode Options, Options: AHCI Mode.

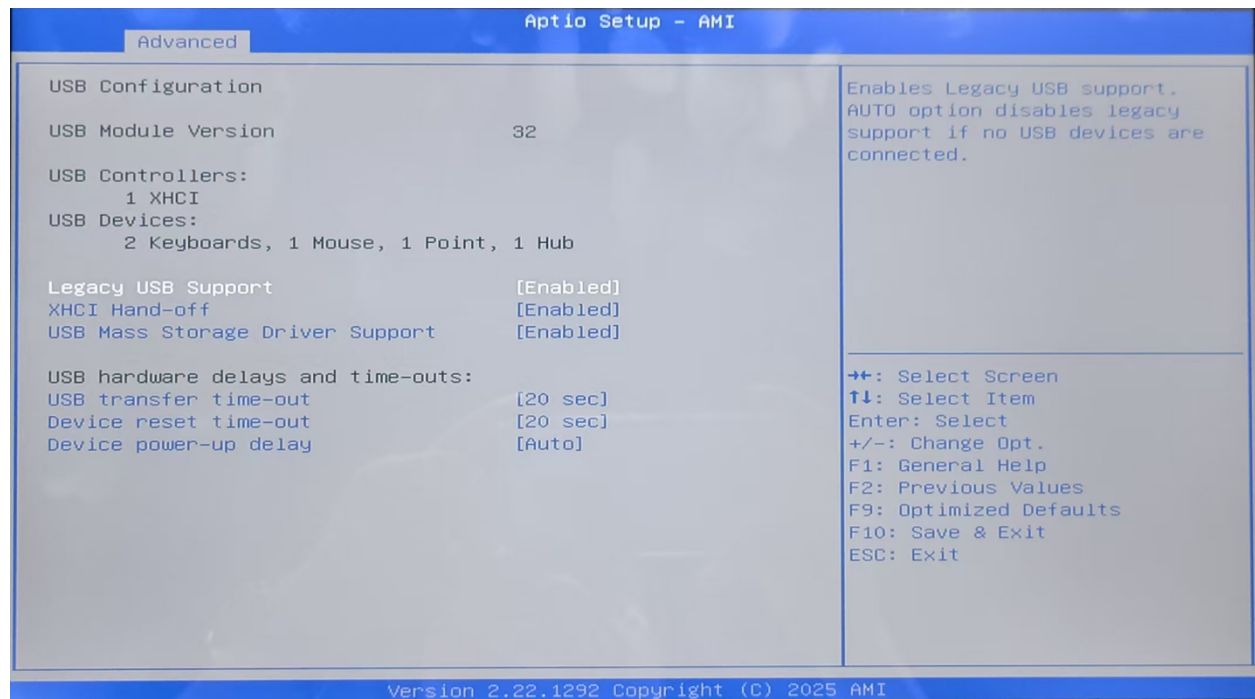
• SATA Test Mode

SATA Checksum Options, Options: Disabled

2.2.6:Chipset Setting(Chipset)/ System Agent(A)Configuration



2.2.7 :USB Settings(USB Configuration)



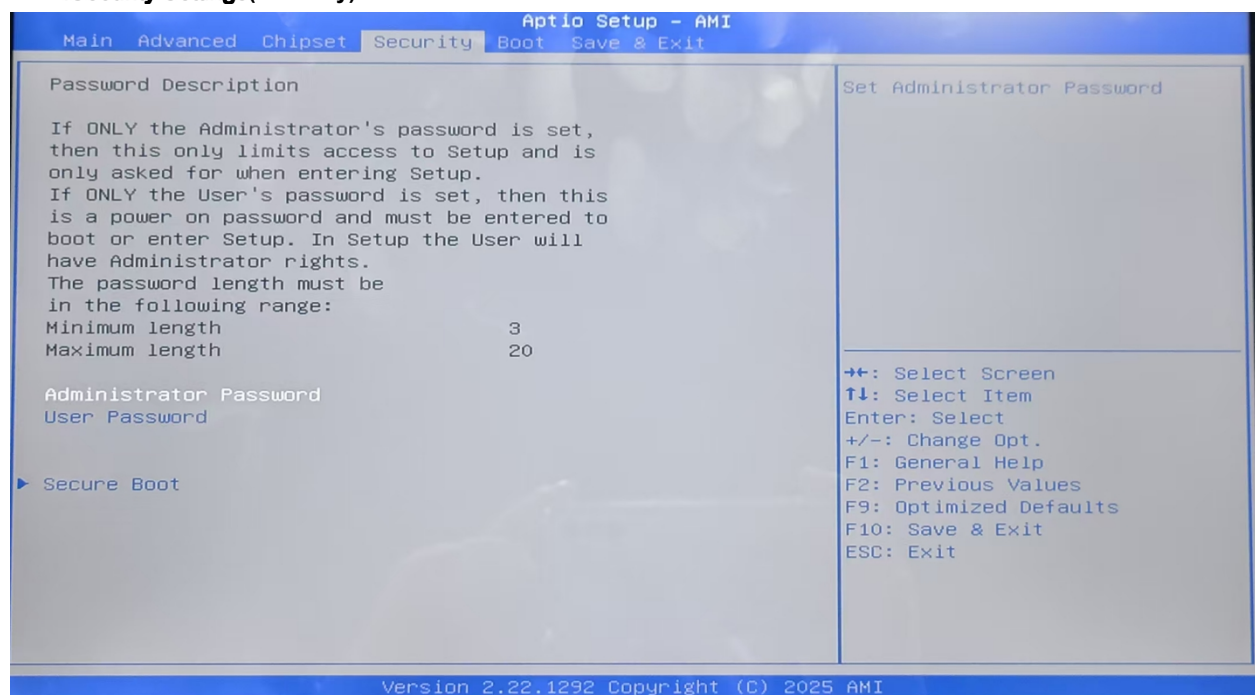
- **Legacy USB Support**

This option is used to control the usage of USB devices in DOS,Options:Enabled ,Disabled ,Auto.

- **XHCI Hand-off**

This option allows you to activate support for operating systems that do not have XHCI hand-off functionality, Options: Enabled ,Disabled.

2.2.8:Security Settings(Security)



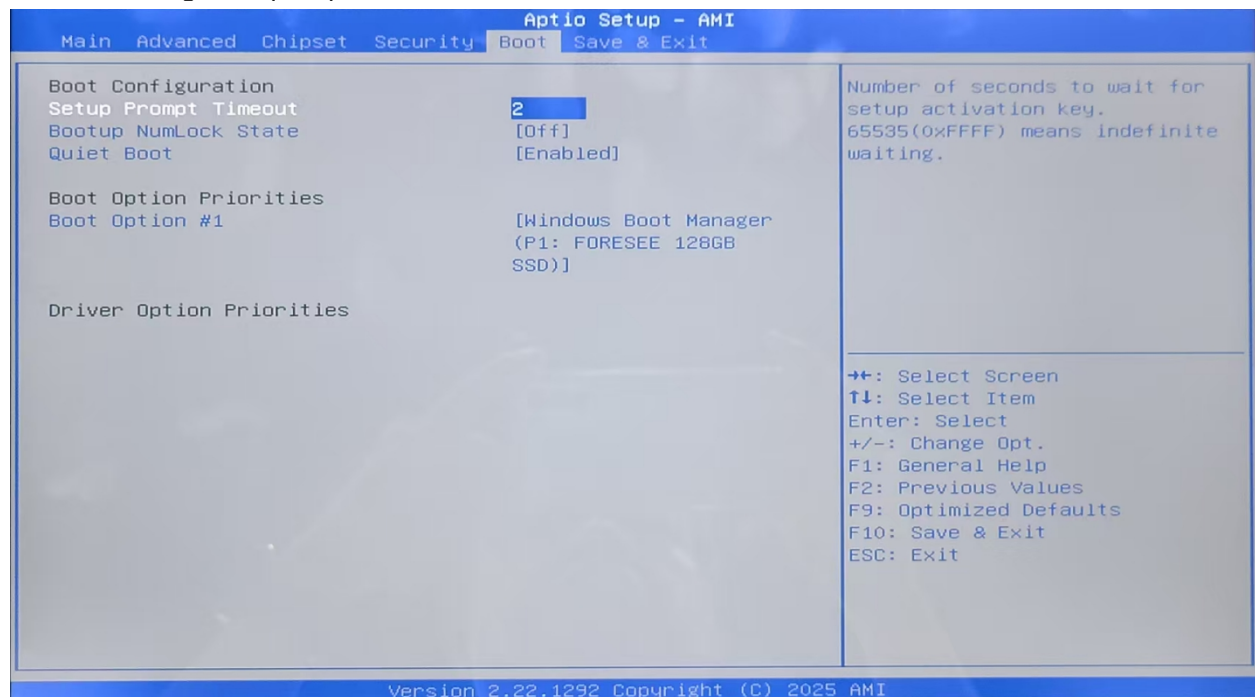
- **Administrator Password**

Assuming this option is used to set the system administrator password, follow these steps:

- 1.Move the cursor to the "Administrator Password" setting and press .
- 2.Enter a 3-20 character password (letters or numbers) in the "Create New Password" dialog box. After entering and pressing , the "Confirm Password" dialog box will appear. Enter the password again to confirm. If you see "Invalid Password!", it means the two entries don't match - please enter again.

To clear the system administrator password, select "Administrator Password". When the "Enter Current Password" dialog box appears, enter the old password. Then you'll see "Create New Password". Press and you'll get "Clear Old Password. Continue?". Press again to clear the password.

2.2.9:Boot Configuration(Boot)



- **Setup Prompt Timeout**

This option is used to set the duration of the boot POST screen display.

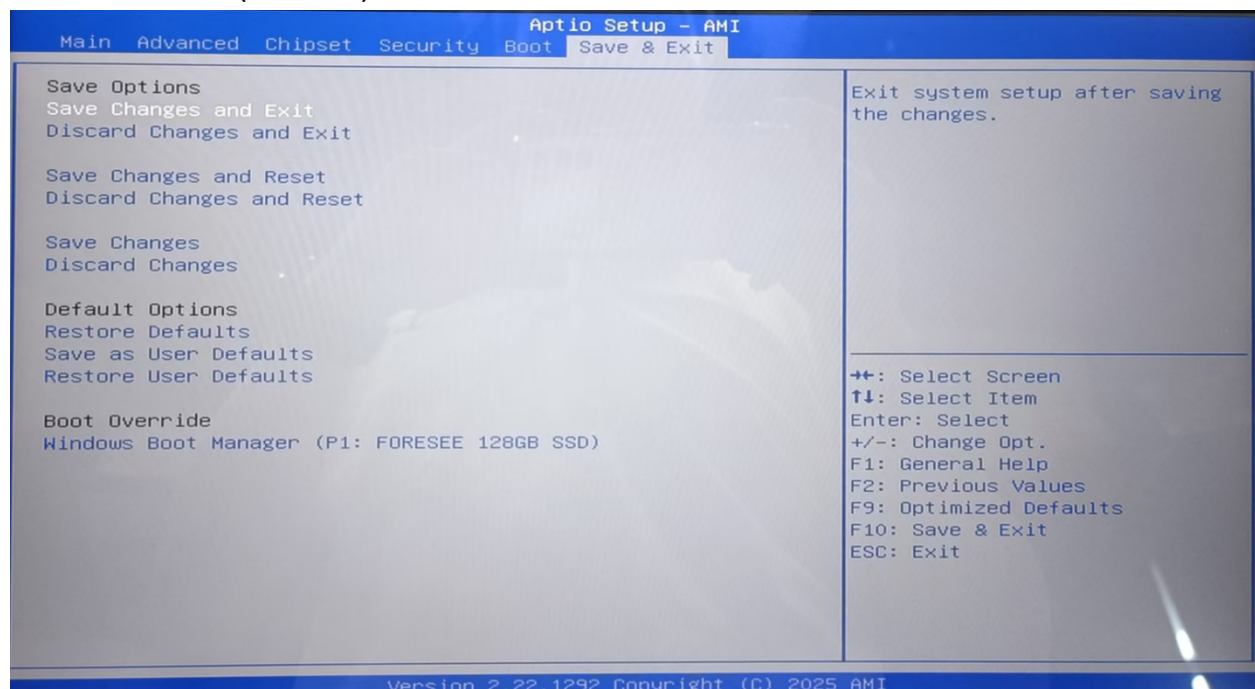
- **Bootup Numlock State**

This is used to set the status of Numlock after system startup. When set to On, NumLock will be turned on after system startup, and the numeric keys on the keypad will be functional. When set to Off, NumLock will be turned off after system startup, and the directional keys on the keypad will be functional.

- **Quiet boot**

This option is used to set quick boot.

2.2.10 :Save and Exit (Save&Exit)



- **Save Changes and Reset**

Save changes and restart the motherboard.

- **Discard Changes and Reset**

Discard changes and restart the BIOS program.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.