SAPPHIRE CORE

BIOS Manual

Manual Revision 1.0

September 26, 2025

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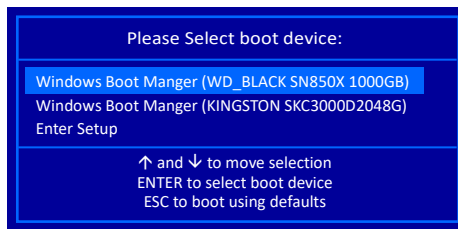
<u>Configuring the BIOS</u>

This chapter provides information on the BIOS Setup program and allows you to configure the system for optimum use.

1. Select Boot Device

Select Boot Device Menu allows you to set the first boot device without entering BIOS Setup. The following startup Logo screen will appear when the computer boots.

During Power On Self Test (POST), you can press the <**F7**> key to enter select boot device menu. The system will directly boot from the device configured in Boot Menu.

```
Please Select boot device:

Windows Boot Manger (WD_BLACK SN850X 1000GB)
Windows Boot Manger (KINGSTON SKC3000D2048G)
Enter Setup

↑ and ↓ to move selection
ENTER to select boot device
ESC to boot using defaults
```

2. Enter BIOS Setup

The BIOS is the communication bridge between hardware and software. Correctly setting the BIOS parameters is critical to maintain optimal system performance.

Use the following procedure to change BIOS settings.

1.   Power on the computer.

2.   Press the <**Del**> or <**F2**> key to enter BIOS Setup during BIOS Power On Self Test (POST).

📌 Note1: It is strongly recommended that you do not change the default BIOS settings. Changing some settings could damage your computer.

📌 Note2: The BIOS options in this manual are for reference only. BIOS screens in manuals are usually the first BIOS version when the board is

released and may be different from your purchased motherboard. Users are welcome to download the latest BIOS version from our official website.

3. BIOS SAPPHIRE CORE Dashboard Menu

This UEFI BIOS SAPPHIRE CORE provides more friendly user graphical interface and mouse operation support for BIOS update or configure the system for optimum use. When entering the UEFI BIOS Setup Utility, the Dashboard menu screen appears. Please refer to below for function description.

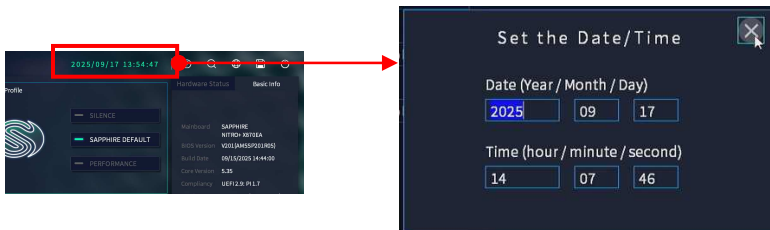For smooth keyboard operation, please first press **<Tab>** key after entering BIOS SAPPHIRE CORE.
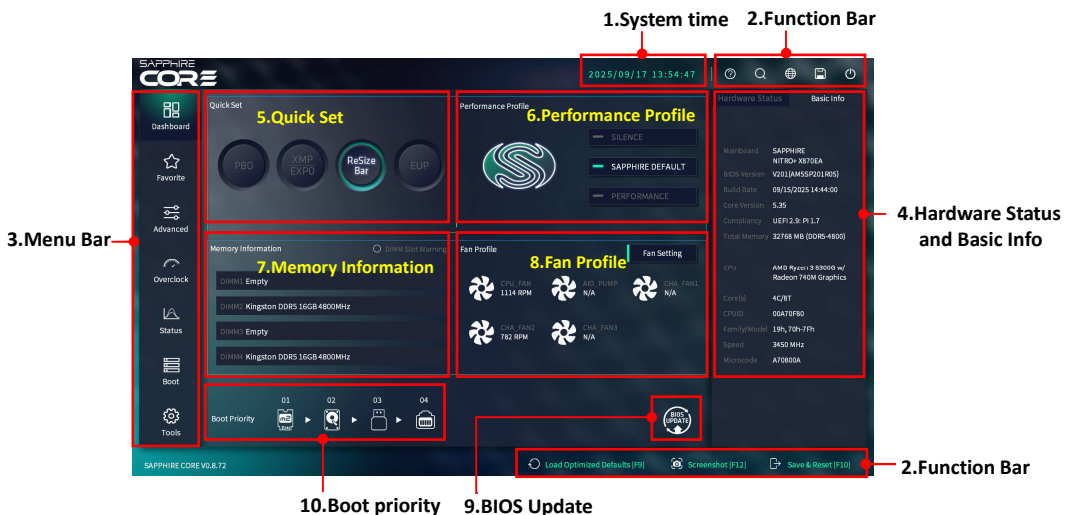
3.1 System time

You can click this field to setup the system date and time and also use <Tab> key to switch between date/time elements.
The format of Date is <Year><Month><Day>.
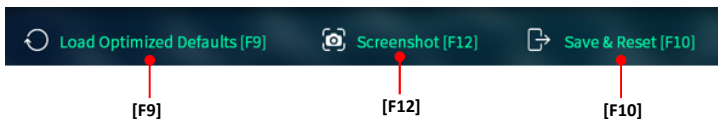The format of Time is <Hour><Minute><Second>.

3.2 Function Bar

There are several function icons and hot keys on screen as shown, allow you quickly execute specific function, refer to below for more detail description.

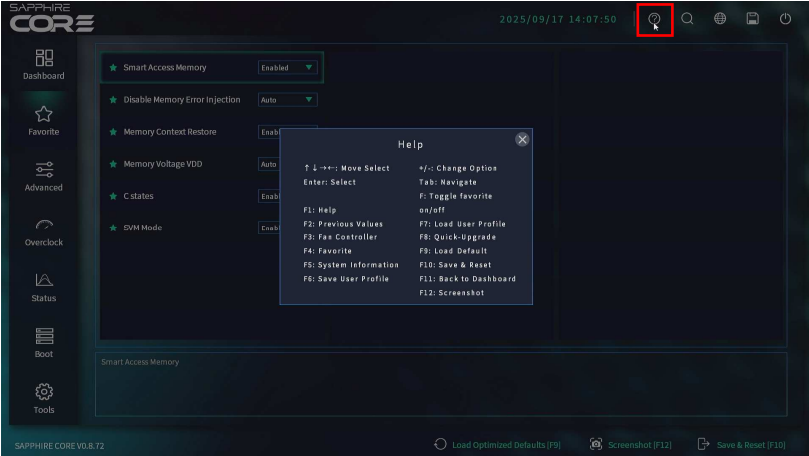**Function icons:** on upper right of screen

Help   Search   Language   DiskSave   Exit

**Hot keys:** on lower right of screen


[F9]   [F12]   [F10]

- **Help:**
  Click this icon , pop-up a window of Help, that displays description of the function keys, you may also press <F1> key on keyboard. Please refer to following table for the function description.

| Function Key	Function Description
↑ ↓ → ←	Moves cursor up/down/right/left or click to select screens
Enter	Bring up the selected item
+ / -	Change option for the selected items
Tab	Keyboard user must press the "Tab" key to navigate the item you want.
F1	Displays description of the function keys
F2	Load previous BIOS settings
F3	Go to Fan Settings menu
F4	Go to Favorite menu
F5	Go to Status menu
F6	Save the current BIOS settings to a profile
F7	Load the BIOS settings from a profile created before
F8	Quick-Upgrade for BIOS update
F9	Load optimized default BIOS settings
F10	Save changes and reset the system
F11	Back to Dashboard menu
F12	Capture the current screen as an image and save to USB flash drive

- **Search:**
  Click this icon to enter the search page, allows you to search for the related BIOS items by entering the name.
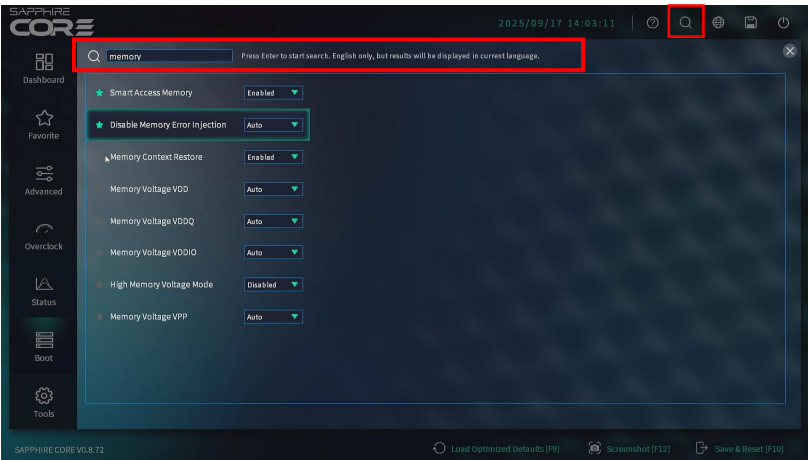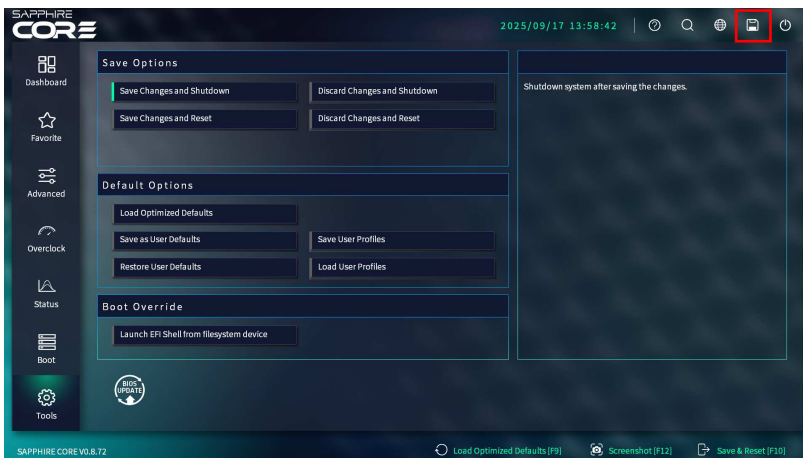

- **Language:**
  Click this icon , pop-up a window of Language, allows you to select the display language of the BIOS setup program.
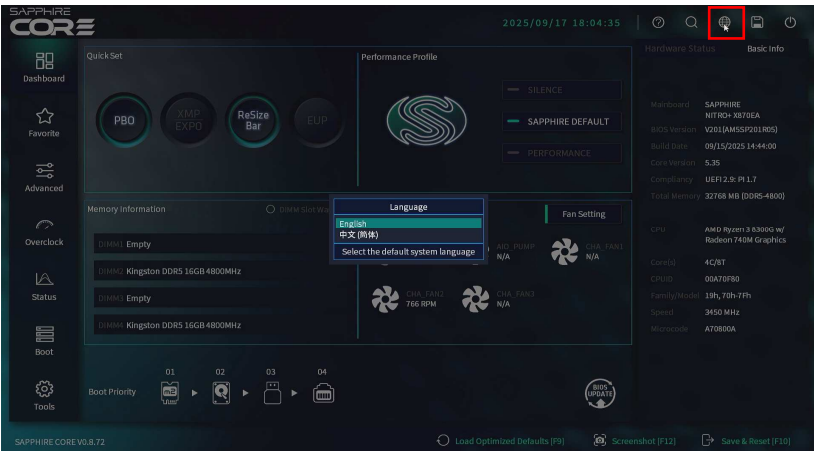
- **DiskSave:**
  Click this icon 💾 to enter the Tools menu, allows you save changes and load optimized default, etc.. for BIOS settings.

- **Exit BIOS:**
  Click this icon ⏻ , pop-up a window of "Exit BIOS", This menu provides serval options to exit the BIOS setup program.
  - Save Changes and Shutdown
  - Save Changes and Reset
  - Discard Changes and Shutdown
  - Discard Changes and Reset
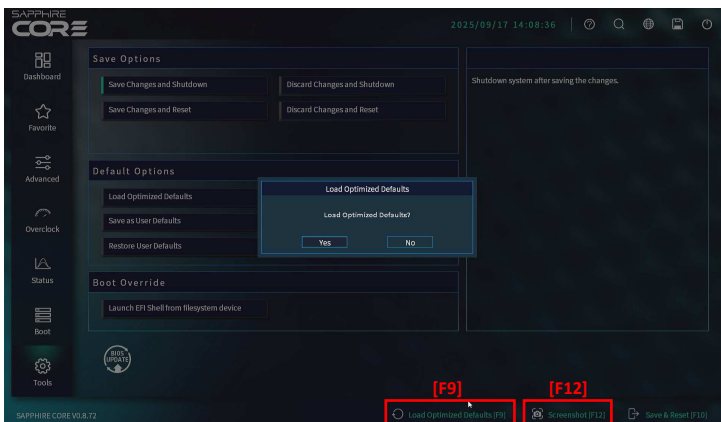 - Load Optimized Default
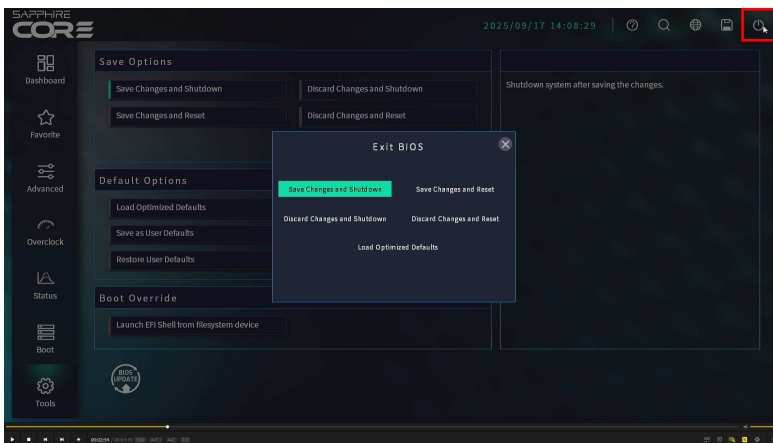
- **Load Optimized Defaults [F9]:**

  Click this icon ![Load Optimized Defaults [F9]] or press <F9> key on keyboard, allow you to load optimized defaults BIOS settings.
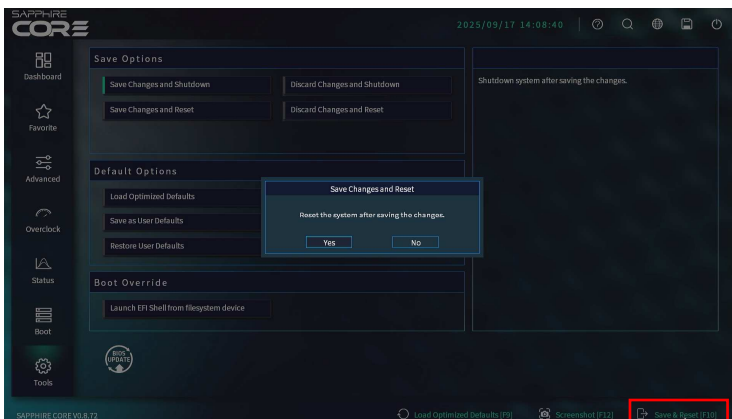
- **Screenshot[F12]:**

  Click this icon ![Screenshot [F12]] or press <F12> key on keyboard, allow you to capture the current screen as an image and save to USB flash drive.
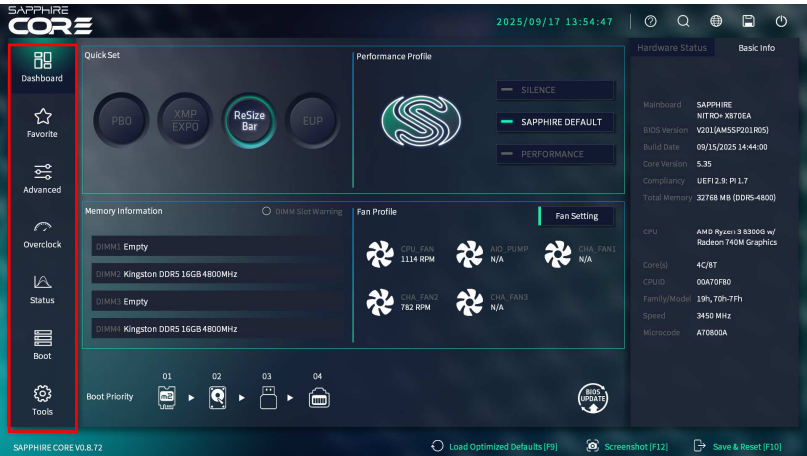

- **Save & Reset[F10]:**

  Click this icon ![Save & Reset [F10]] or press <F10> key on keyboard, allow you to save the all changes and reset the system.

3.3 Menu Bar

The menu bar on left side of screen has the following main items.
Select icon enter their respective menu page.

| Icon	Description
Dashboard	Included Quick Set, Memory Information, Performance profile, Fan Profile, Hardware Status and Boot Priority for easy configuration and displays basic system information and status.
Favorite	Easily save and access your favorite BIOS items.
Advanced	Adjust settings for the Device, Storage, Power, TPM, and Security of your system.
Overclock	Adjust the frequency and voltage for overclocking.
Status	Display the temperature and voltage for CPU, Memory, MB, system information and change FAN settings.
Boot	Change the system boot configuration.
Tools	Select the exit options and load default settings.

3.4 Hardware Status and Basic Info

The Hardware Status and Basic Info shows on right side of screen. You can switch between Hardware Status or Basic Info.

- Hardware Status: displays the frequency, voltages and temperatures for CPU and memory.
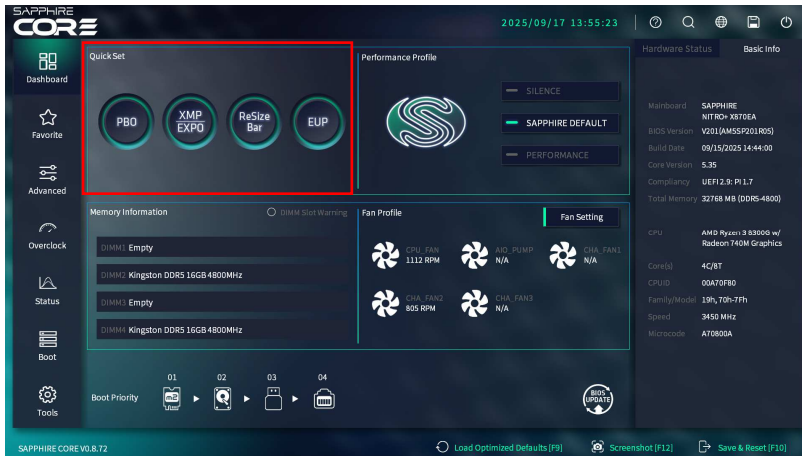- Basic Info: displays the basic information of system.
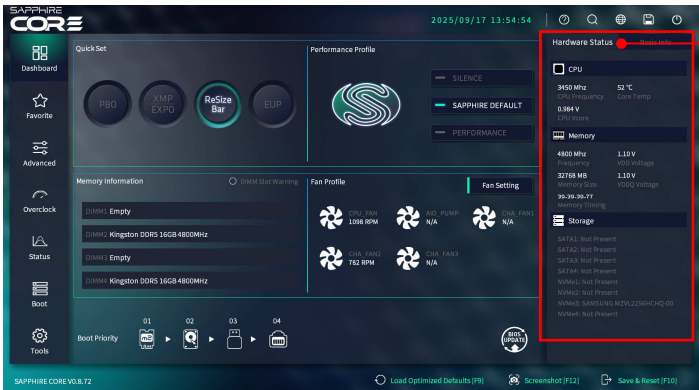

Hardware Status
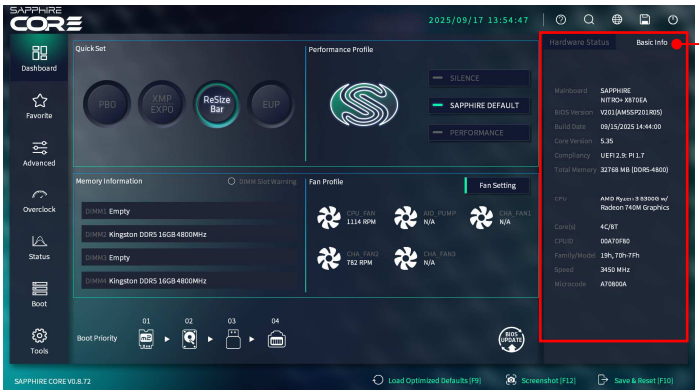
Basic Info

3.5 Quick Set

The Quick Set menu on top left of center on screen, includes 4 technologies for performance-enhancing settings. Easy to click button to enable or disable the function.

- **PBO button:**
  PBO (Precision Boost Overdrive) is a feature that automatically adjusts power limits, voltages, and clock speeds of a CPU to enhance performance.

- **XMP/EXPO button:**
  AMD EXPO (AMD Extended Profiles for Overclocking) and Intel's XMP (Extreme Memory Profile) for memory overclocking

- **ReSize Bar button:**
  Improves the communication between the CPU and GPU, promoted boosting performance.

- **EUP button:**
  EUP (Energy using product) is a power management setting, reduce energy consumption when the computer is in a standby or off state.

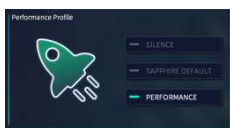## 3.6 Performance Profile

The Performance Profile menu on top right of center on screen, provides 3 performance level for fan settings.
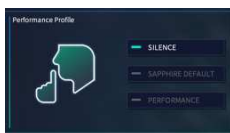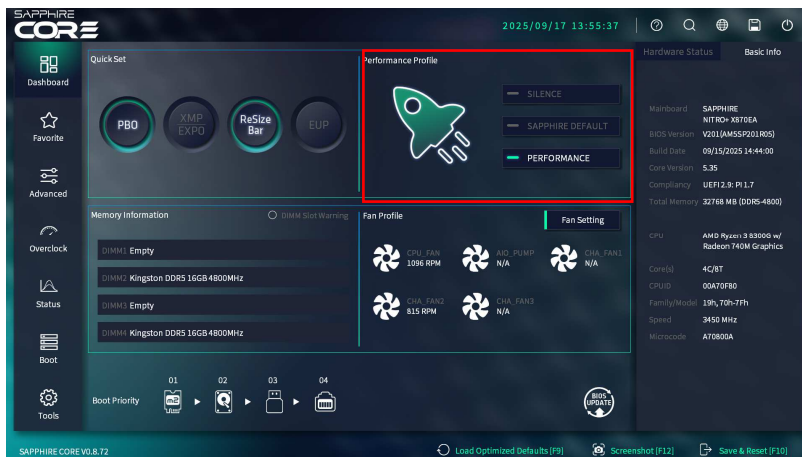
- SILENCE level:
  Allow the fan to run at the slow speeds.
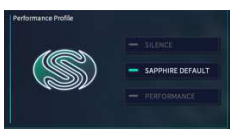
- SAPPHIRE DEFAULT level:
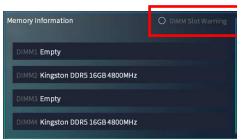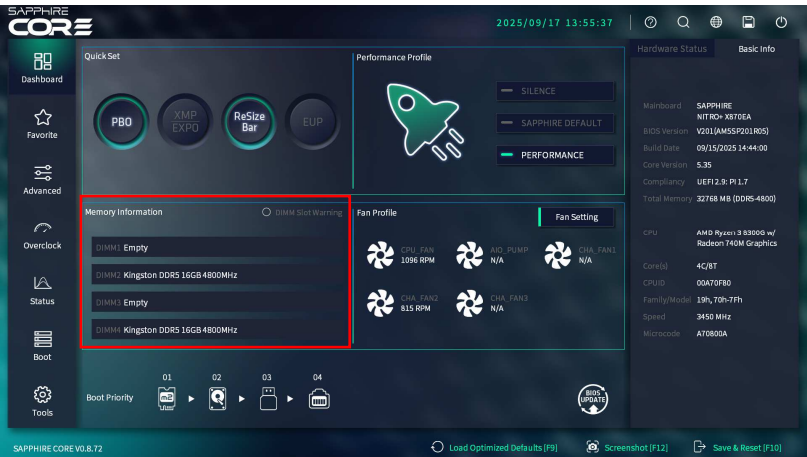 Allow the fan to run at speeds by default settings.

- PERFORMANCE level:
 Allow the fan to run at the performance speeds.

3.7 Memory Information

The Memory Information menu on bottom left of center on screen, displays the current memory information.

DIMM Slot Warning button:
Enables or disables the system to show the DIMM installation fail warning message during the POST.

3.8 Fan Profile

The Fan Profile menu on bottom right of center on screen, display the current speed of fans.
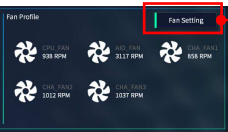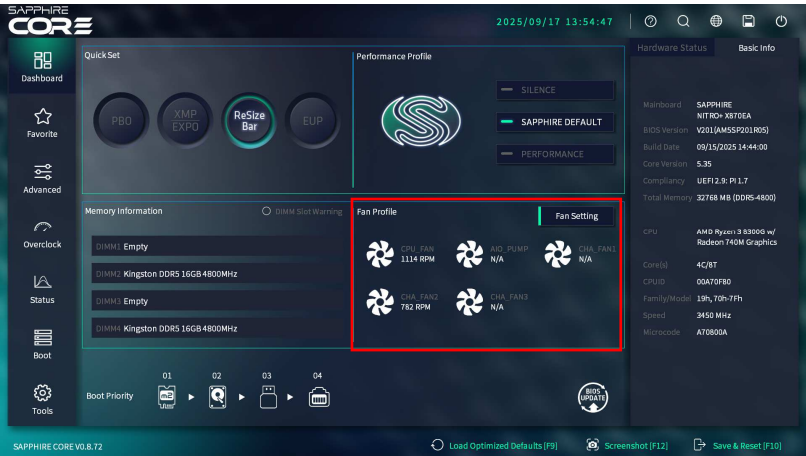
Fan Setting button:
Go to Fan Settings page to adjust fan speed.

On Fan Setting Page, allow you set the fan speeds and control mode.

FAN Conn.

The panel contains 5 dots allow you to drag and adjust the speed slopes.

FAN Control Mode

Click this button to save the all change.

- CPU Fan Warning Alert: Enables or disables warning this alert function, if the CPU Fan is not working, the system will automatically restart and appear prompt message during POST.
- CPU Fan temperature: Select CPU or System temperature for fan speed control.

FAN Connector speed:

Allow you to adjust fan speed by 5 operation mode for each fan.

FAN Control Mode:

Provides 5 options for you select appropriate FAN control mode.

- Standard: allow the fan to run at different speed by temperature.
- Silent: allow the fan to run at the slow speeds
- Performance: allow fan to run at high speed to ensure optimal system performance
- Full Speed: allow the fan to run at the full speeds
- User Defined: Click and drag the duty points on the graph to adjust the desired fan speed

3.9 BIOS Update

The BIOS update button is a more user-friendly for easy to flash the BIOS.
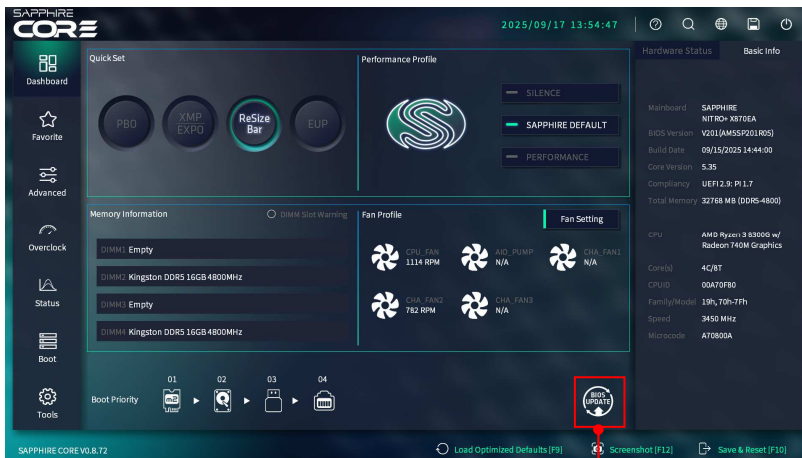
BIOS Update Button

Please refer to the following steps for BIOS update:

(1) Download the latest BIOS file from our website that matches your motherboard model, and save it to the USB flash drive.
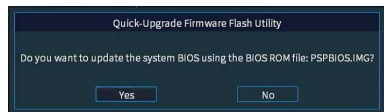
(2) Insert the USB flash drive into mainboard's USB port.

(3) Click BIOS update button or press <F8> key on keyboard to update, then searching BIOS file screen appears.

> **Quick-Upgrade Firmware Flash Utility**
> Searching for BIOS ROM files.
> Please wait... 1
> 100 %

(4) Select a BIOS file and make sure the BIOS update file matches your mainboard model.

> **Select BIOS ROM File**
> PSPBIOS.IMG

(5) It will ask for confirmation, press <Yes> to perform the BIOS update process.

> **Quick-Upgrade Firmware Flash Utility**
> Do you want to update the system BIOS using the BIOS ROM file: PSPBIOS.IMG?
> Yes   No

(6) The preparing the BIOS file screen appears.

> **Quick-Upgrade Firmware Flash Utility**
> Preparing the BIOS file
> 0 %

(7) System will restart and enter flashing mode to complete the BIOS update, press <Yes> to continue.

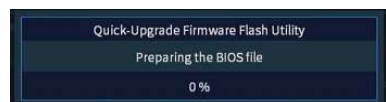> **Quick-Upgrade Firmware Flash Utility**
> System will restart and enter flashing mode to complete the BIOS update. Do you want to continue?
> Yes   No
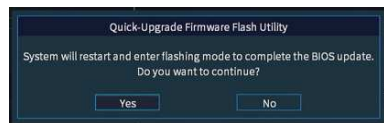
(8) The rebooting system screen appears.

> **Quick-Upgrade Firmware Flash Utility**
> Rebooting system now...

(9) It will ask for confirmation again, press <Yes> to perform the BIOS update process.

> **Quick-Upgrade Firmware Flash Utility**
> Do you want to update the system BIOS using the BIOS ROM file: PSPBIOS.IMG?
> Yes   No

(10) The preparing the BIOS file screen appears.

> **Quick-Upgrade Firmware Flash Utility**
> Preparing the BIOS file
> 0 %
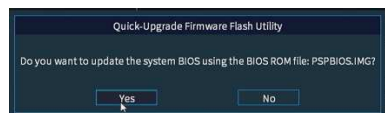
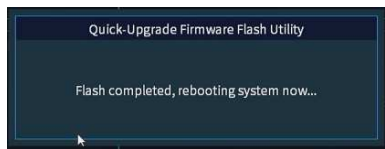(11) It appears a caution screen, follow the on-screen instructions to make a selection.

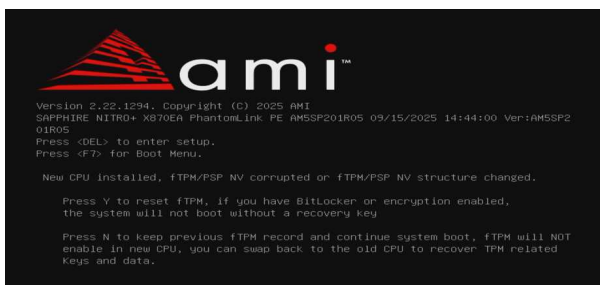(12) The system will start to flash the BIOS and the reading BIOS BOM screen progress appears.

(13) The update BIOS progress screen appears.

(14) The BIOS update is completed then restart the system.

(15) After the system restarts, press <DEL> key to enter BIOS Setup or press <F7> key for boot device menu during BIOS Power On Self Test (POST).

3.10 Boot priority

The Boot priority menu on bottom of screen, specify the boot device priority sequence. You can drag and drop the icons to set the boot order of devices.

M.2 storage device

Hard disk drive

USB flash drive

PXE LAN
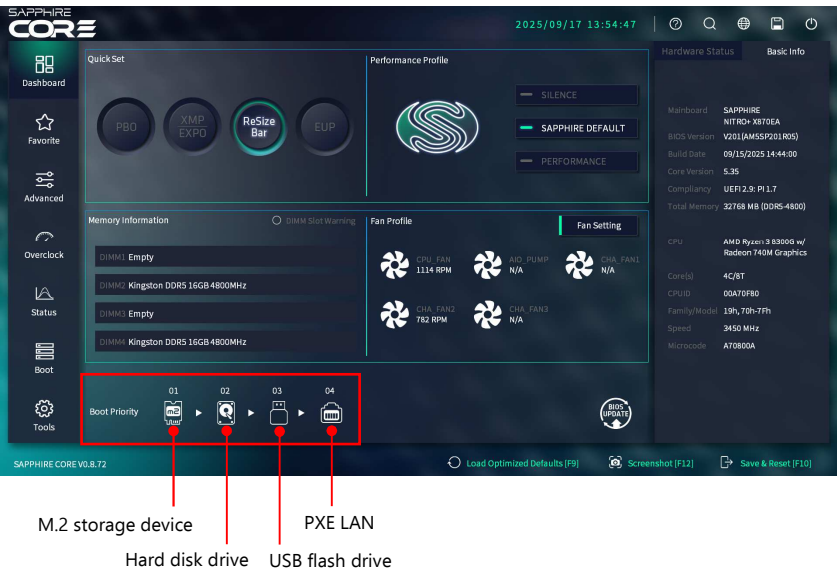
You can click these icons to view the boot menu of device and select you want. The boot device options depending on you installed in system.

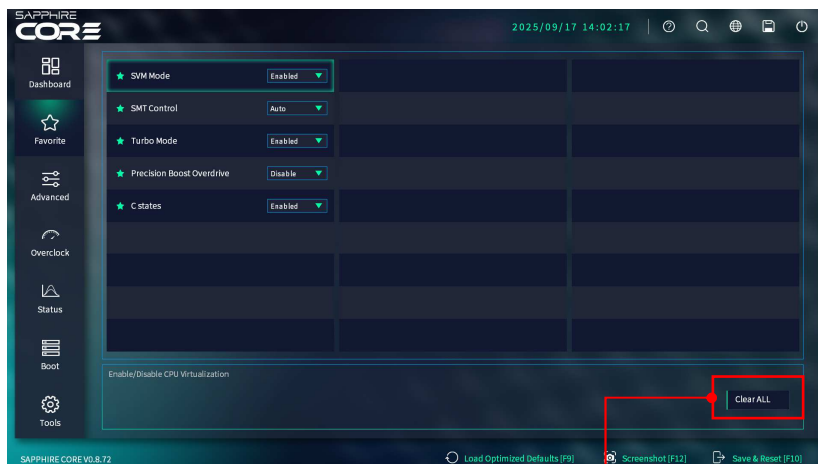Example: Click icon appears the boot device menu of M.2 storage device.

You can directly drag and drop the icons to change the boot priority of devices.
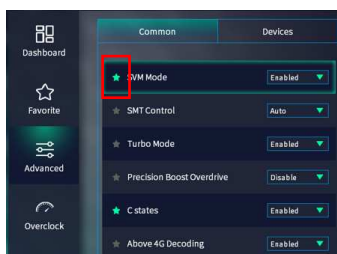
Example: Change the priority 02 to priority 03.

4. Favorite Menu

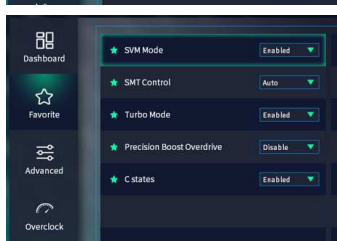The Favorite menu allows you to quickly and easily save your favorite BIOS items.

One-click clean up all BIOS items.

- Add BIOS item to Favorite menu:
  Select a BIOS item you want, click the "☆" icon and it will turn to green to show it's saved.
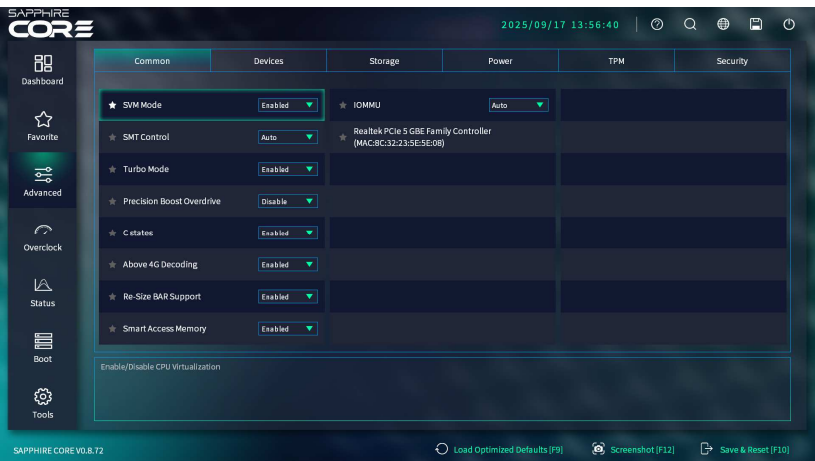

  The selected BIOS item already saved in Favorite menu.

- Remove BIOS item from Favorite menu:
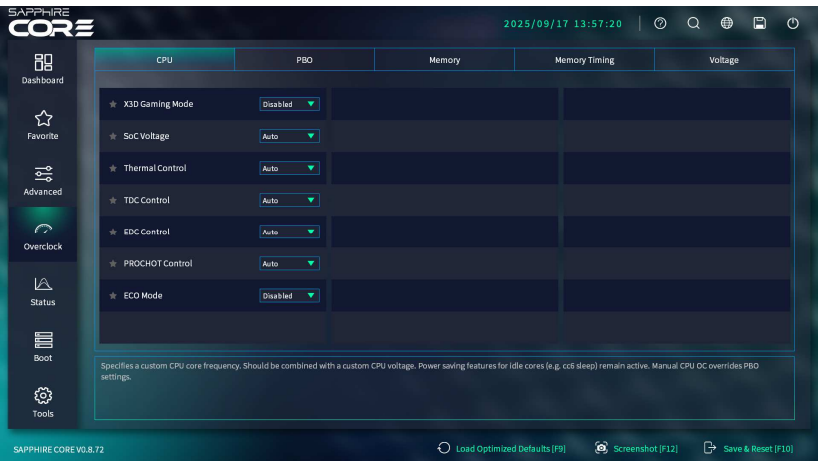 Select a BIOS item, click the "★" icon to remove it from Favorite menu.

5. Advanced Menu

The Advanced menu allows you to adjust settings for related items of Device, Storage, Power, TPM, and Security in system.

6. Overclocking Menu

The Overclocking menu allows you to specify your settings for CPU, memory, voltage control and overclocking.
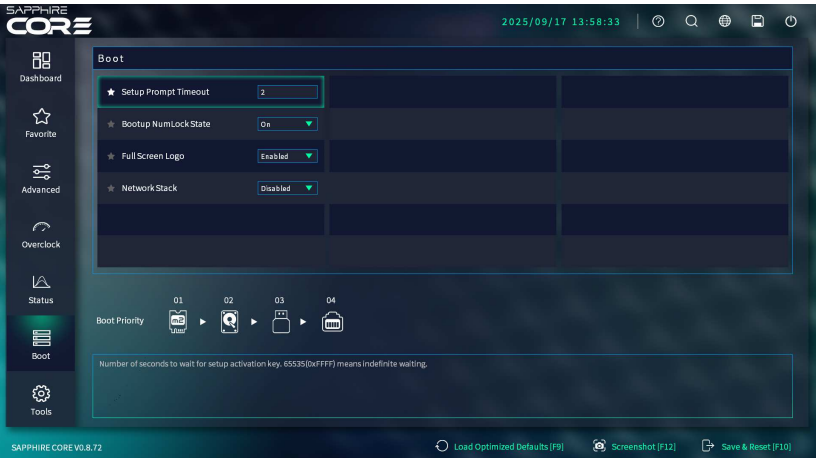
7. Status Menu

The Status menu displays the system temperature/voltage for CPU, memory, MB, and system information. Allow you change the fan settings and control the related items of power management.

8. Boot Menu

The Boot menu allow you to change the related items of system boot and boot priority.

9. Tools Menu

The Tools menu allows you to load the optimal default values for BIOS, and save or discard your changes to the BIOS items