
User Manual

For the : NT20H

Shuttle®

XPC Installation Guide

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

1. This device may not cause harmful interference.
2. This device must withstand any background interference including those that may cause undesired operation.

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Safety Information

Read the following precautions before setting up a Shuttle XPC.

CAUTION

Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle. Disposal of used batteries according to the manufacturer's instructions.

Installation Notices

Do not place this device underneath heavy loads or in an unstable position.

Do not expose this device to high levels of direct sunlight, high-humidity or wet conditions.

Do not use or expose this device around magnetic fields as magnetic interference may affect the performance of the device.

Do not block the air vents to this device or impede the airflow in any way.

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Starting BIOS

AMIBIOS has been integrated into many motherboards for over a decade. In the past, people often referred to the AMIBIOS setup menu as BIOS, BIOS setup, or CMOS setup.

American Megatrends refers to this setup as BIOS. Specifically, it is the name of the AMIBIOS BIOS setup utility. This chapter describes the basic navigation of the BIOS setup screens.

Enter the BIOS

To enter the BIOS setup screens, follow the steps below:

Step1. Power on the motherboard.

Step2. Press the <Delete> key on your keyboard when you see the following text prompt: Press DEL to run Setup.

Step3. After you press the <Delete> key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.



This manual describes the standard look of the BIOS setup screen. The motherboard manufacturer has the ability to change any and all of the settings described in this manual. This means that some of the options described in this manual do not exist in your motherboard's AMIBIOS.



In most cases, the <Delete> key is used to invoke the BIOS setup screen. There are a few cases that other keys are used, such as <F1>, <F2>, and so on.

BIOS Setup Menu

The main BIOS setup menu is the first screen that you can navigate. Each main BIOS setup menu option is described in this user's guide.

The Main BIOS setup menu 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 be.

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.



AMIBIOS8 has default text messages built into it. The motherboard manufacture retains the option to include, leave out, or change any of these text messages. They can also add their own text messages. Because of this, many screen shots in this manual are different from your BIOS setup screen.

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process. These keys include <F1>, <F4>, <Enter>, <ESC>, <Arrow> keys, and so on.



There is a hot key legend located in the right frame on most BIOS setup screens.

Hot Key	Description
→ Left ← Right	The Left and Right <Arrow> keys allow you to select a BIOS setup screen. For example: Main screen, Advanced screen, Chipset screen, and so on.
↑ Up ↓ Down	The Up and Down <Arrow> keys allow you to select an BIOS setup item or sub-screen.
+/- Plus/Minus	The Plus and Minus <Arrow> keys allow you to change the field value of a particular setup item. For example: Date and Time.
Tab	The <Tab> key allows you to select BIOS setup fields.
F1	The <F1> key allows you to display the General Help screen. Press the <F1> key to open the General Help screen.
F4	The <F4> key allows you to save any changes you have made and exit BIOS Setup. Press the <F4> key to save your changes. Press the <Enter> key to save the configuration and exit. You can also use the <Arrow> key to select Cancel and then press the <Enter> key to abort this function and return to the previous screen.
ESC	The <Esc> key allows you to discard any changes you have made and exit the BIOS Setup. Press the <Esc> key to exit the BIOS setup without saving your changes. Press the <Enter> key to discard changes and exit. You can also use the <Arrow> key to select Cancel and then press the <Enter> key to abort this function and return to the previous screen.
Enter	The <Enter> key allows you to display or change the setup option listed for a particular setup item. The <Enter> key can also allow you to display the setup sub- screens.

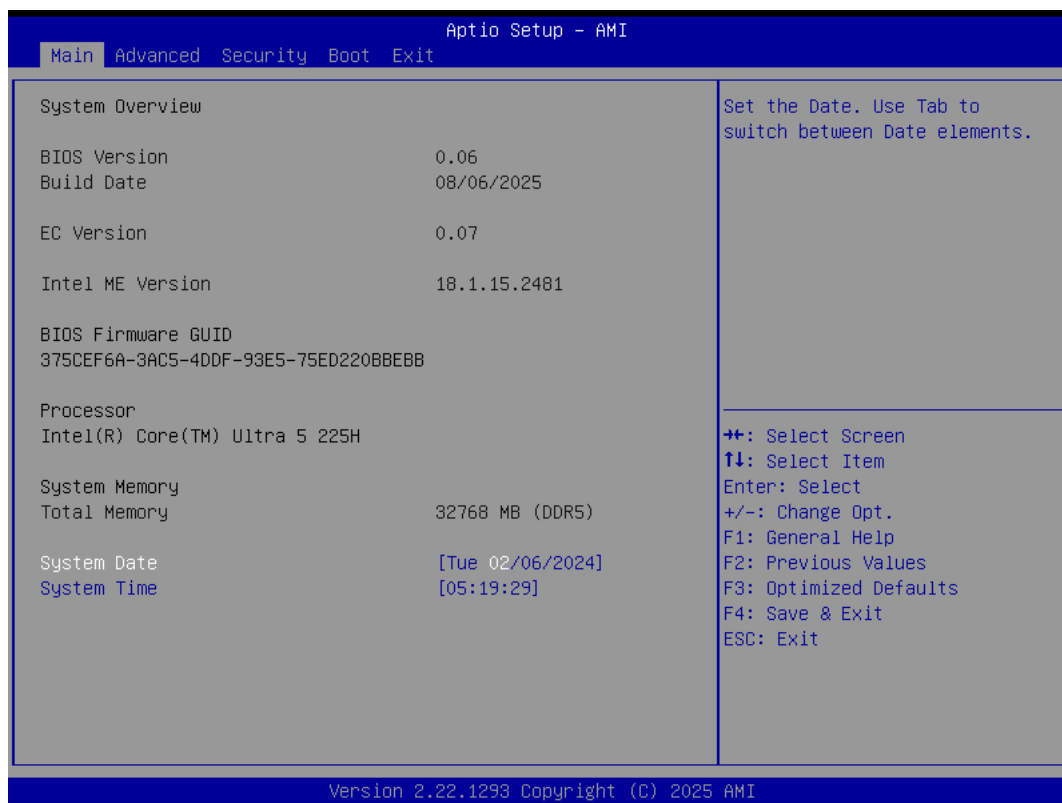
Main Setup

When you first enter the BIOS Setup Utility, you will enter the Main setup screen.

You can always return to the Main setup screen by selecting the Main tab.

There are two Main Setup options. They are described in this section.

The Main BIOS Setup screen is shown below.



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 is entered in HH:MM:SS format.



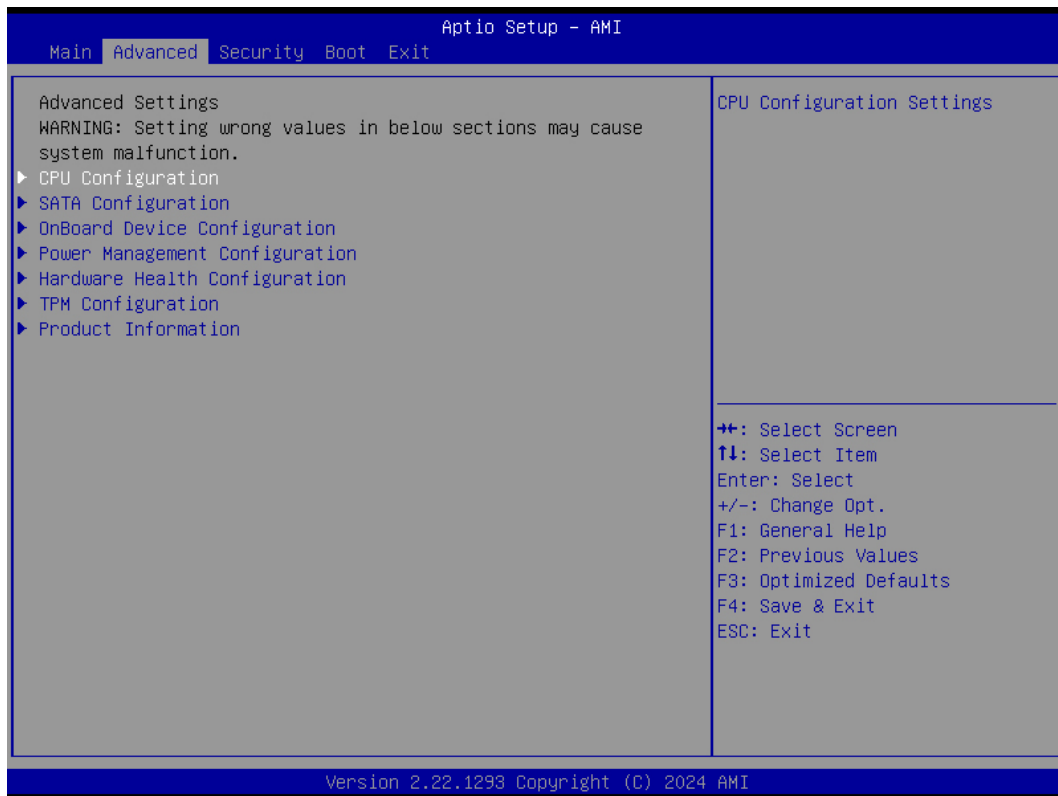
The time is in 24-hour format. For example, 5:30 A.M. appears as 05:30:00, and 5:30 P.M. as 17:30:00.

Advanced

Select the Advanced tab from the BIOS 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.

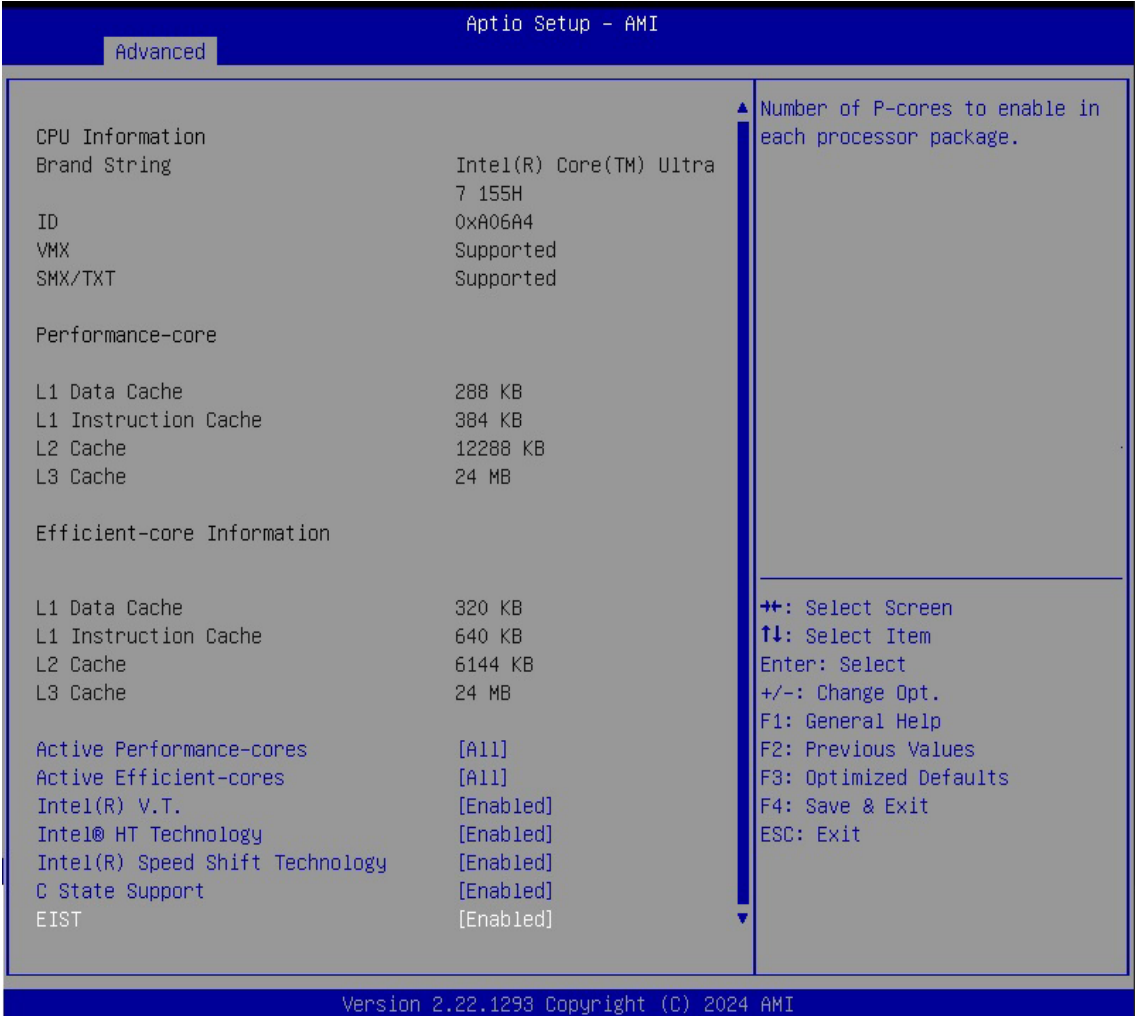
The Advanced BIOS Setup screen is shown below. The sub menus are described on the following pages.



➤ CPU Configuration

You can use this screen to select options for the CPU Configuration Settings. Use the up and down <Arrow> keys to select an item. Use the <Plus> and <Minus> keys to change the value of the selected option. A description of the selected item appears on the right side of the screen. The settings are described on the following pages. An example of the CPU Configuration screen is shown below.

 The CPU Configuration setup screen varies depending on the installed processor.



Active Performance-cores

This item allows you to determine how many P-cores to be enabled.

Active Efficient-cores

This item allows you to enable E-cores in each processor package.

Intel(R) V. T.

When enable, a VMM can utilize the additional hardware capabilities provided by vanderpool Technology.

➤ The choice: Enabled , Disabled.



CPU support, item appear.

Intel® HT Technology

This item allows you to enable or disable Intel® HT Technology.

➤ The choice: Enabled , Disabled.

Intel(R) Speed Shift Technology

This item allows you to Enable/Disable Intel(R) Speed Shift Technology support. Enabling will expose the CPPC v2 interface to allow for hardware controlled P-states.

➤ The choice: Enabled , Disabled.

C State Support

This item allows you to enable or disable CPU C State.

➤ The choice: Enabled , Disabled.

EIST

This item allows you to enable or disable Enhanced Intel SpeedStep® Technology.

➤ The choice: Enabled , Disabled.

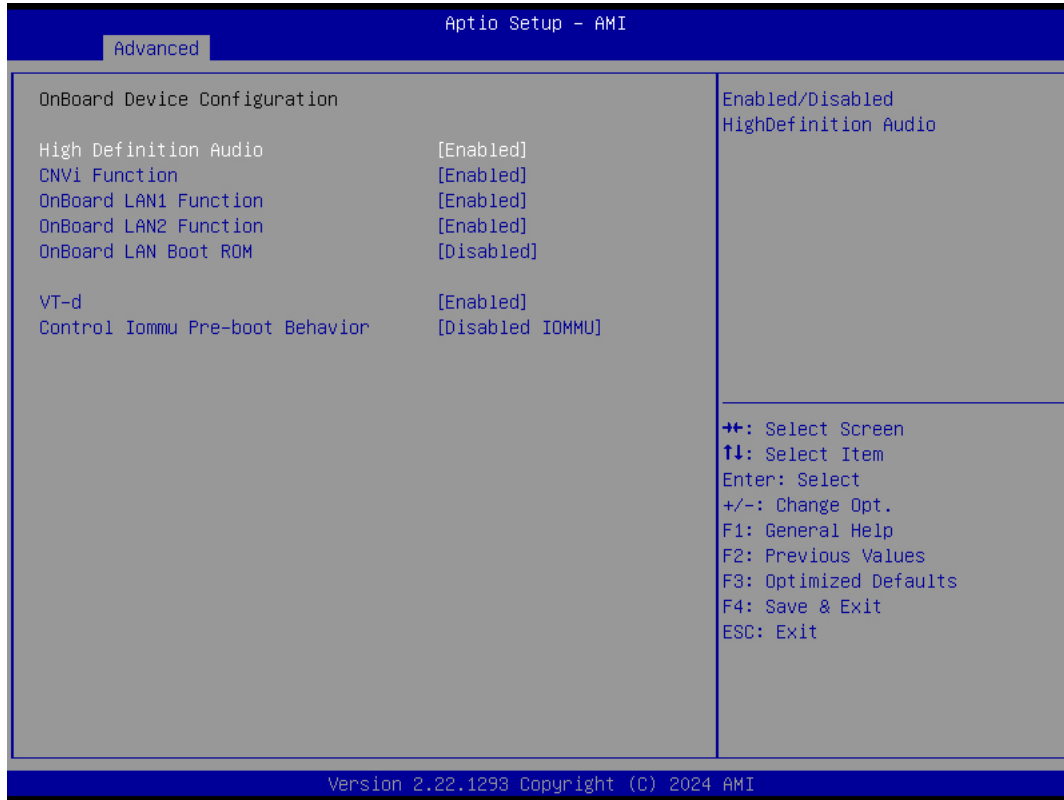
➤ SATA Configuration



SATA Mode Selection

M.2 SATA INFORMATION
SUPPORT PCIE INTERFACE ONLY

➤ Onboard Device Configuration



High Definition Audio

This item allows you to enable or disable system High Definition Audio.

- The choice: Enabled , Disabled.

CNVi Function

This item allows you to Enabled/Disabled CNVi function.

- The choice: Enabled , Disabled.

Onboard LAN1~2 Function

This item allows you to enable or disable LAN1~2 Function.

- The choice: Enabled , Disabled.

Onboard LAN Boot ROM

This item allows you to enable or disable Onboard LAN Boot ROM.

- The choice: Enabled , Disabled.

VT-d

This item allows you to enable or disable VT-d.

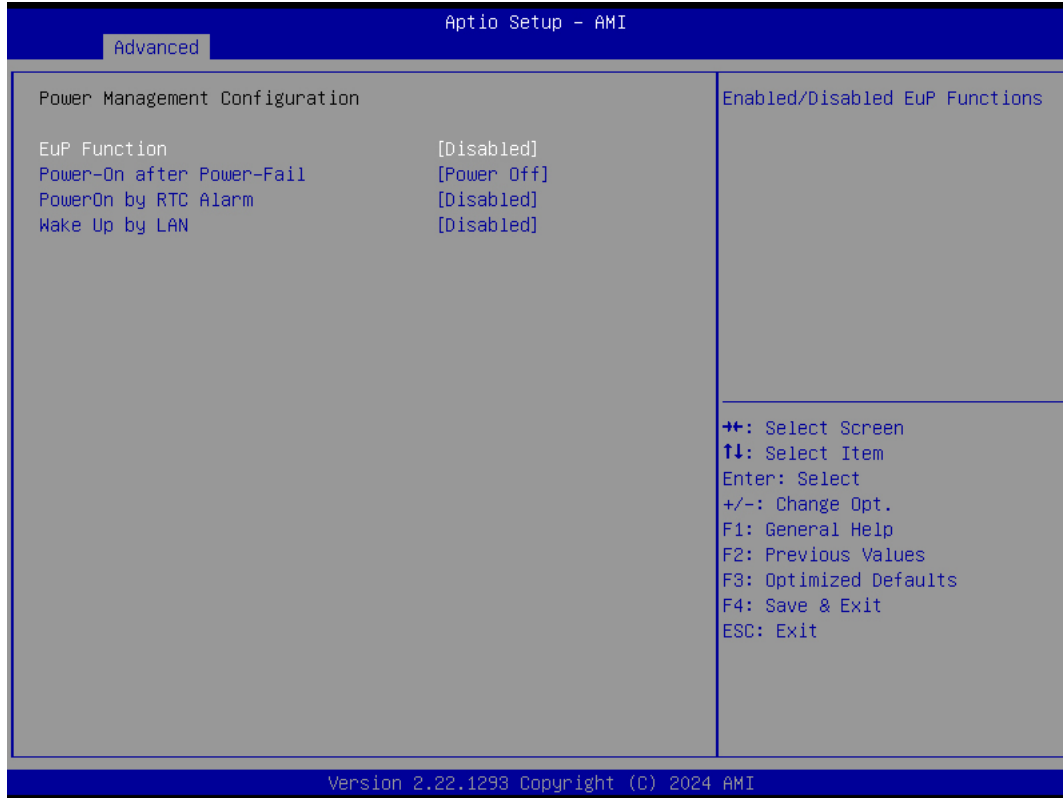
- The choice: Enabled , Disabled.

Control Iommu Pre-boot Behavior

This item allows you to enable or disable Iommu.

- The choice: Disable IOMMU, Enable IOMMU during boot.

➤ Power Management Configuration



EuP Function

This item allows you to enable or disable system EuP function in S4/S5.

- The choice: Enabled , Disabled.

Power-On after Power-Fail

This item allows you to set system power on automatically after AC power restored.

- The choice: Power On, Former-sts, Power Off, Power On by LAN, Power On by RTC.

PowerOn by RTC Alarm

When enabled, System will wake on the hr::min::sec specified.

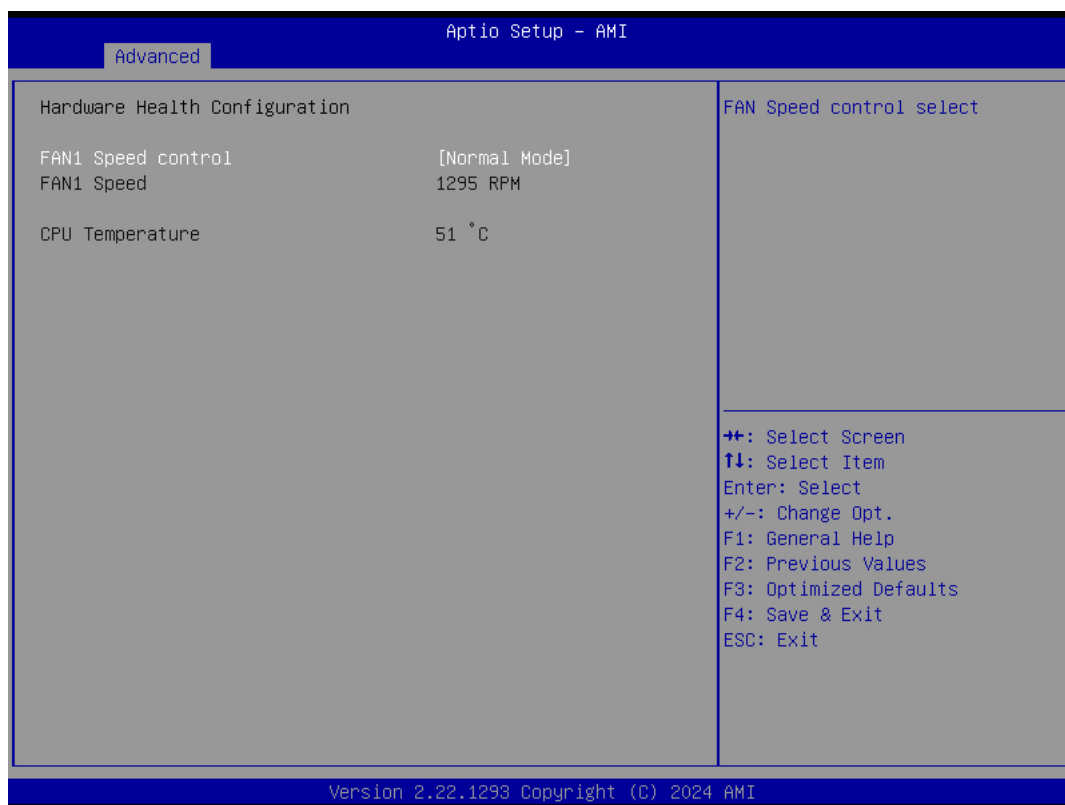
- The choice: Enabled , Disabled.

Wake Up by LAN

This item allows you to enable or disable system wake on by LAN.

- The choice: Enabled , Disabled.

➤ Hardware Health Configuration



FAN1 Speed Control

This item allows you to set CPU Fan Speed.

- The choice: Performance Mode, Normal Mode, Silent Mode
Default is Normal Mode

➤ TPM Configuration

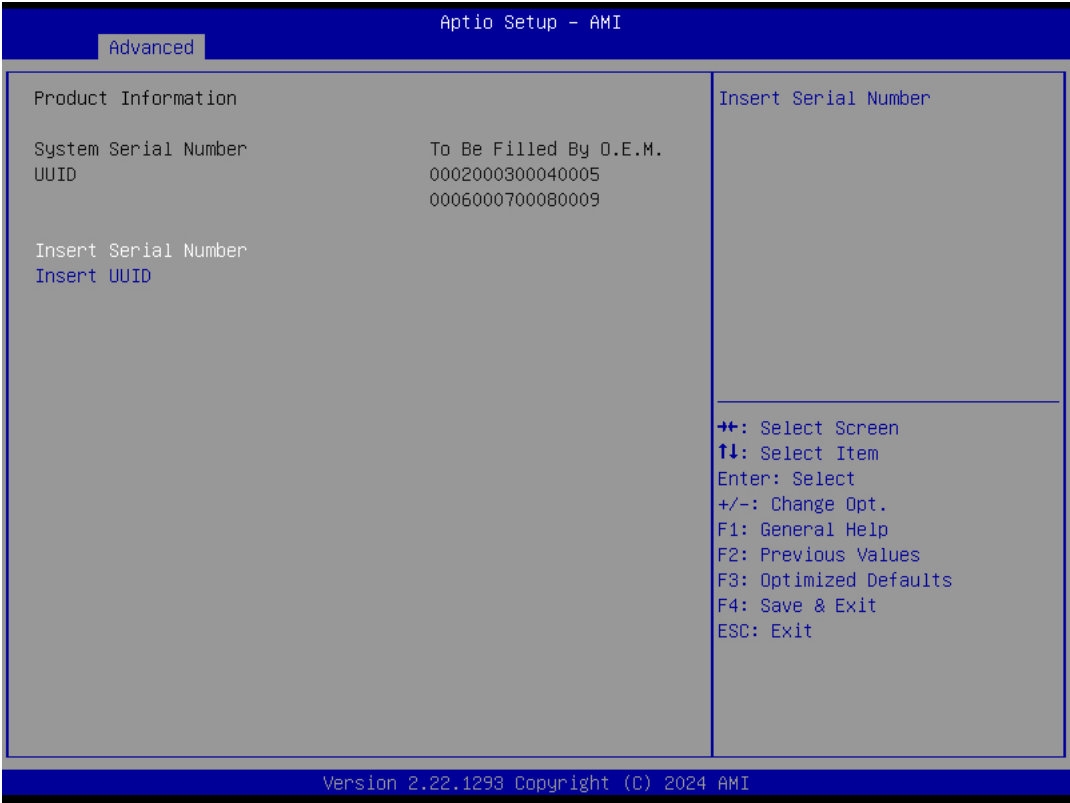


Security Device Support

This item allows user to enable/disable firmware TPM function.

- The choice: Enabled, Disabled.

➤ Product Information



Insert Serial Number

This item allows you to insert Serial Number.

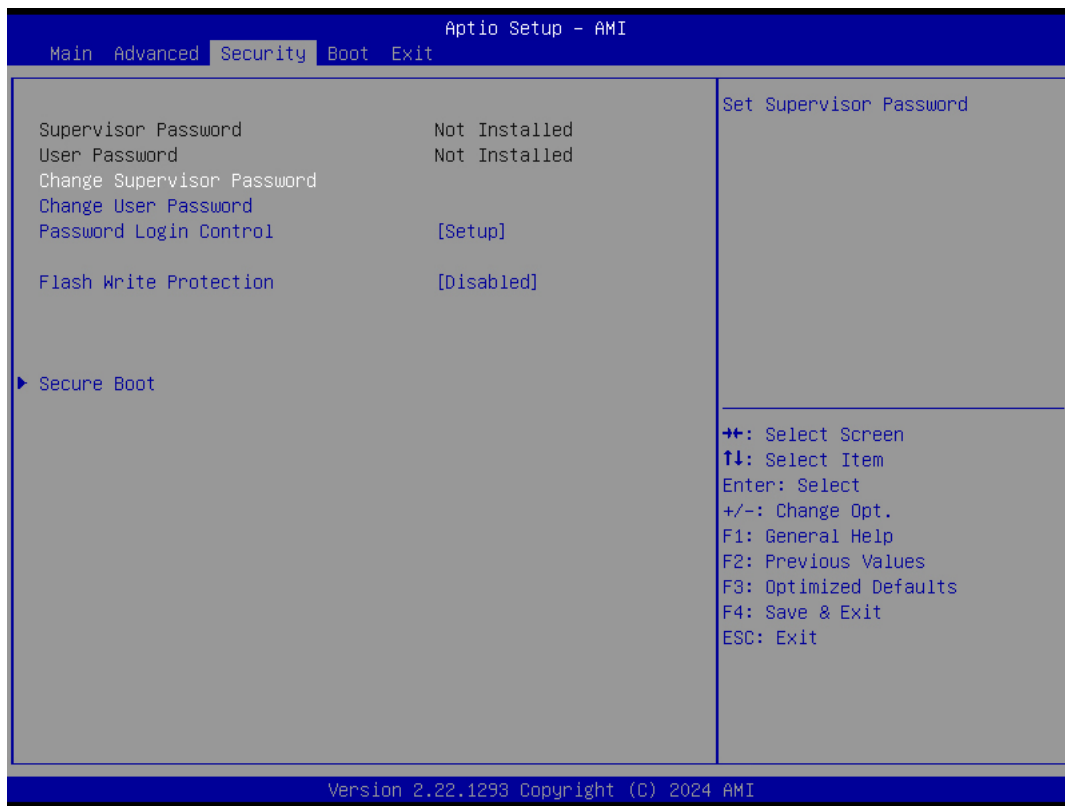
Insert UUID

This item allows you to insert UUID.

Security

Select the Security tab from the BIOS setup screen to enter the Security BIOS Setup screen. You can display an Security BIOS Setup option by highlighting it using the <Arrow> keys. All Security BIOS Setup options are described in this section.

The Security Setup screen is shown below. The sub menus are documented on the following pages.



Supervisor Password

Indicates whether a supervisor password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.

User Password

Indicates whether a user password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.

Change Supervisor Password

Select Change Supervisor Password from the Security Setup menu and press <Enter>.

Enter New Password:

Type the password and press <Enter>. The screen does not display the characters entered. Retype the password as prompted and press <Enter>. If the password confirmation is incorrect, an error message appears. The password is stored in NVRAM after BIOS completes.

Change User Password

Select Change User Password from the Security Setup menu and press <Enter>.

Enter New Password:

Type the password and press <Enter>. The screen does not display the characters entered. Retype the password as prompted and press <Enter>. If the password confirmation is incorrect, an error message appears. The password is stored in NVRAM after BIOS completes.

Password Login control

This item allows user to adjust Password Login control.

➤ The choice: Setup, Boot, Both.

Flash Write Protection

Choose [Enabled] to avoid virus destroy BIOS. If you want to flash BIOS, you must set it [Disabled].

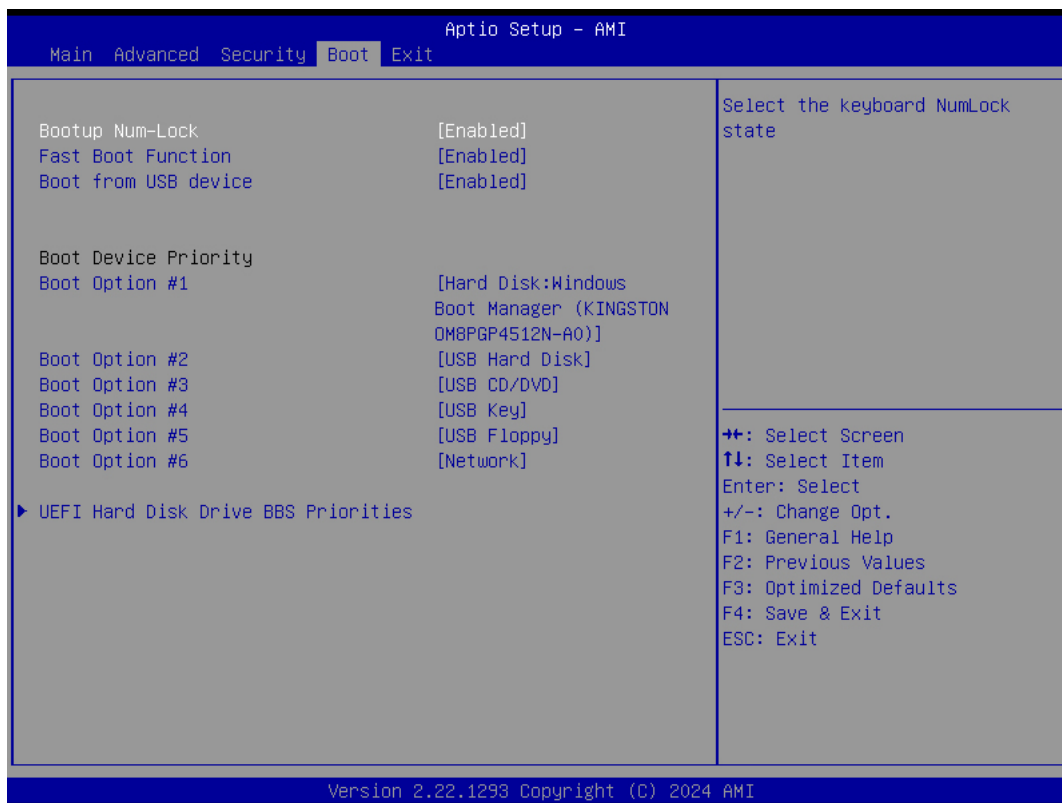
➤ The choice: Enabled or Disabled.

Boot

Select the Boot tab from the BIOS setup screen to enter the Boot BIOS Setup screen. You can select any of the items in the left frame of the screen, such as Boot Settings Configuration, to go to the sub menu for that item.

You can display an Boot BIOS Setup option by highlighting it using the <Arrow> keys. All Boot BIOS Setup options are described in this section.

The Boot BIOS Setup screen is shown below. The sub menus are described on the following pages.



Bootup Num-Lock

This item allows you to enable or disable keyboard Num-Lock state.

➤ The choice: Enabled, Disabled.

Fast Boot Function

This item allows you to enable or disable Fast Boot Function.

➤ The choice: Enabled , Disabled.

Boot from USB device

This item allows you to enable or disable boot from USB device.

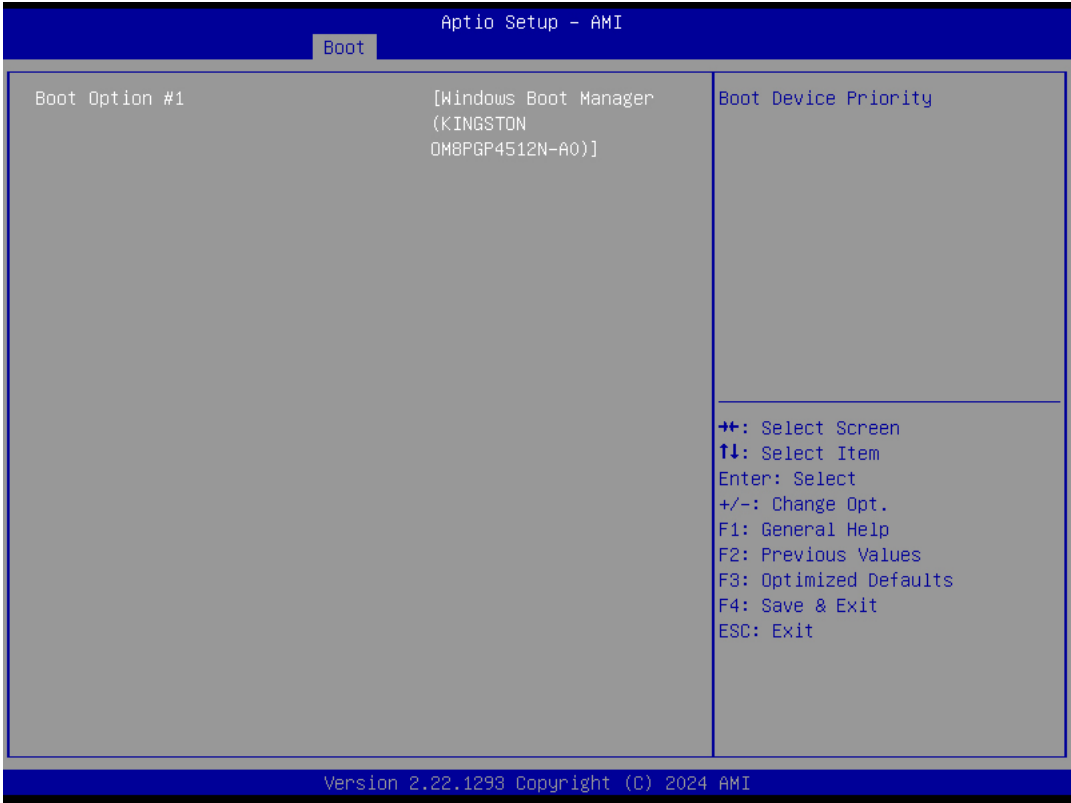
➤ The choice: Enabled , Disabled.

Boot Device Priority (Boot Option #1/2/3/....)

Specifies the boot sequence from the available devices. A device enclosed in parenthesis has been disabled in the corresponding type menu.

UEFI Hard Drsk Drive BBS Priorities

This item specifies the boot device priority sequence from available UEFI .



Save & Exit

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

You can display an Exit BIOS Setup option by highlighting it using the <Arrow> keys. All Exit BIOS Setup options are described in this section.

The Exit BIOS Setup screen is shown below.



Save Changes and Exit

When you have completed the system configuration changes, select this option to leave BIOS Setup and reboot the computer so the new system configuration parameters can take effect.

Select "Save Changes and Exit" from the Exit menu and press <Enter>.

Save Configuration Changes and Exit Now?

[Ok] [Cancel]

appears in the window. Select Ok to save changes and exit.

Exit Without Saving Changes

Select "Exit without Saving Changes" from the Exit menu and press <Enter>.

Select Ok to discard changes and Exit.

Load Defaults Settings

BIOS automatically sets all BIOS Setup options to a complete set of default settings when you Select this option. The Optimal settings are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Optimal BIOS Setup options if your computer is experiencing system configuration problems.

Select Load Optimal Defaults from the Exit menu and press <Enter>.

Select Ok to load optimal defaults.

产品中有害物质的名称及含量

产品名称：NT20H

部件名称 及 型号	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板组件	X	O	O	O	O	O
风散模块	O	O	O	O	O	O
金属件	X	O	O	O	O	O
線材	X	O	O	O	O	O
外殼	O	O	O	O	O	O
电源供应器	X	O	O	O	O	O

*：电路板组件包括印刷电路板及其构成的零部件，如电阻、电容、集成电路、连接器等

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