User Manual

MUC-FP551 V1.0



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MUC-FP551 User Manual

(Version 1.0)

Release Notes：		
No.	Description	Date
V1.0	Initial Version	2026/7/25

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Warning

1. Before using the product, carefully read the manual to ensure proper installation and operation.
2. If you are not ready to install any extension card, store it in an anti-static protective bag to prevent damage.
3. To discharge any static electricity, briefly touch a grounded metal object before removing the extension card from the protective bag.
4. Always wear anti-static gloves and handle the card by its edges to avoid damaging sensitive components.
5. Verify that the power supply voltage is correct before connecting the motherboard to the power supply.
6. To prevent electric shock or damage, always turn off the AC power or unplug the power cord before removing or reconfiguring the motherboard or any components.
7. Unplug the AC power cord from the outlet before relocating the motherboard or any components.
8. Ensure all power cords are unplugged before connecting or disconnecting any equipment to avoid electrical hazards.
9. Wait at least 30 seconds after powering off the system before powering it on again to prevent unnecessary wear.
10. If any issues arise during operation, consult a qualified professional for assistance.
11. This product may cause radio interference in certain environments; if necessary, users should take appropriate measures to mitigate such interference.

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Chapter 1 Product Introduction

1.1 Brief Introduction

The MUC-FP551 is an ultra-compact Mini PC powered by AMD Ryzen™ Embedded and AMD Ryzen™ 3000 Series processors.

1.2 Parameters

CPU: AMD Ryzen™ 3000 Series/Embedded R2000 Series

CPU	Cores/Threads	Base Freq.	Max Freq.	L3 Cache	TDP
3500U	4C/8T	2.1GHz	3.7GHz	4MB	15-35W (15W by default)
3700U	4C/8T	2.3GHz	4.0GHz	4MB	15-35W (15W by default)
R2314	4C/4T	2.1GHz	3.5GHz	4MB	15-35W (15W by default)
R2514	4C/8T	2.1GHz	3.5GHz	4MB	15-35W (15W by default)

GPU: Integrated AMD Radeon™ Graphics

CPU	GPU	Maximum Dynamic Freq.
3500U	Integrated AMD Radeon™ Vega 8 Graphics	1200 MHz
3700U	Integrated AMD Radeon™ Vega 10 Graphics	1400 MHz
R2314	Integrated AMD Radeon™ Graphics	1200 MHz
R2514	Integrated AMD Radeon™ Graphics	1200 MHz

Display Interfaces: 2 × HDMI 2.0, 1 × Full-featured USB Type-C (supports DisplayPort output)

Memory

- 2 × DDR4 SO-DIMM slots with dual-channel support
- Maximum capacity: up to 64GB (Ryzen™ Embedded R2000 Series) / 32GB (Ryzen™ 3000 Series)
- Memory speed:
    - R2314/R2514: DDR4-2667 MT/s
    - Ryzen™ 5 3500U / Ryzen™ 7 3700U: DDR4-2400 MT/s

Storage/Expansion:

- 1 × M.2 Key M slot (labeled M.2_N on board), supporting 2280 NVMe SSD
- 1 × M.2 Key M slot (labeled M.2_N/S on board), supporting 2242 NVMe/SATA SSD
- 1 × M.2 Key E slot (labeled M.2_E on board), supporting 2230 Wi-Fi & Bluetooth modules (PCIe/USB 2.0)

Audio: SenaryTech SN6186 High-Definition Audio Codec, supporting 1 x CTIA 2in1(Line-out+Mic-in) Audio Jack.

Ethernet: 1 × Realtek RTL8111H Gigabit Ethernet controllers, RJ45 interfaces. Data Rate Per Port: 10/100/1000 Mbps.

USB:

- 1 × USB 3.2 Gen 2 Type-A ports, up to 10 Gbps (labeled USB32 on board)
- 1 × USB 3.2 Gen 1 Type-A port, up to 5 Gbps (labeled USB31 on board)
- 2 × USB 2.0 Type-A port, up to 480 Mbps (labeled USB20 on board)
- 1 × USB 3.2 Gen 2 Type-C port, up to 10 Gbps (labeled USB_C on board)
- 1 × USB 3.2 Gen 2 Type-C Full Featured port, up to 10 Gbps (labeled USB_C on board)

TPM: External TPM module support (Infineon SLB9665 TPM chip, optional).

Other I/O:

- 1 × 4-pin 5V CPU fan header (labeled CPUFAN on board, 1.25 mm)
- 1 × JBAT CR2032 3V CMOS battery connector (labeled JBAT on board, 1.25 mm)

Power:

- 19V DC input (5.5 mm × 2.5 mm DC jack)
- USB Type-C PD power input, up to 65W (labeled USB_C on board)

Board Dimension: 106.1 mm × 103.6 mm

System Dimension: 112.4 mm × 112.4 mm × 35.5 mm (L × W × H)

Operating Temperature: -20°C to 70°C

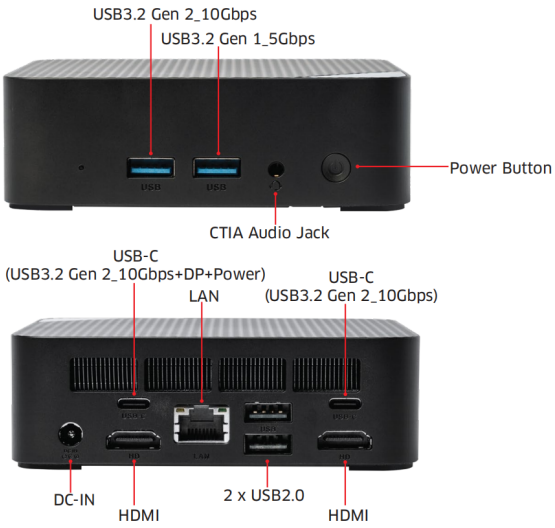
OS Support: Supports the following operating systems

- Windows 10 version 1703 or later
- Windows 11
- Ubuntu 18.04 or later

Note: Windows versions earlier than Windows 10 version 1703 and Ubuntu versions earlier than Ubuntu 18.04 are not supported.For detailed processor and operating system compatibility information, please refer to Microsoft’s official compatibility documentation.

1.3 Product Overview

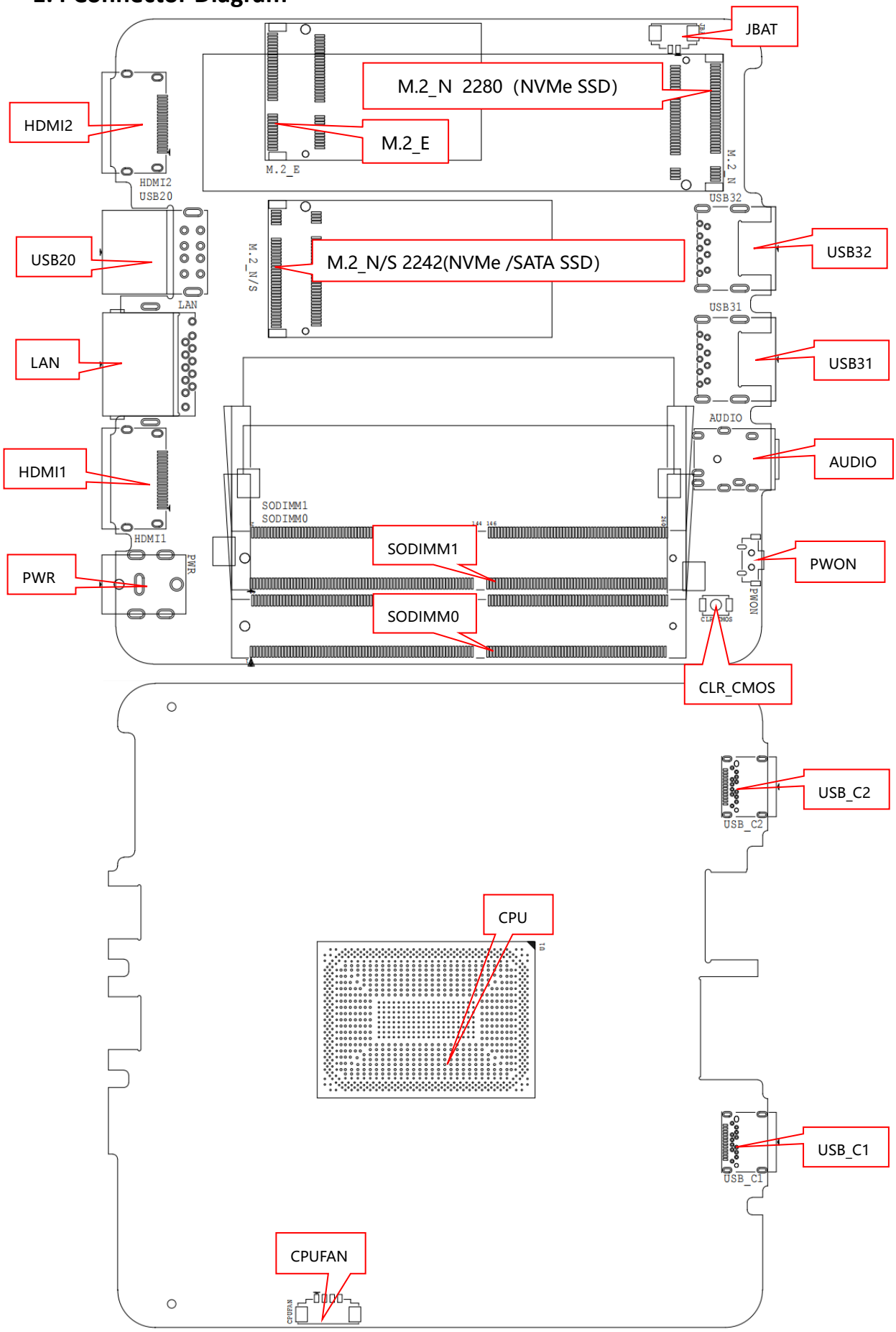








1.4 Connector Diagram



Chapter 2 Hardware

2.1 Installations

Please refer to the following steps for installation:

1. Read the user manual carefully to make sure all the adjustments on the MUC-FP551 are correct.
2. Installing the Memory:
   - Press the ejector tab of the memory slot outwards with your fingertips.
   - Hold the memory module and align the key to the module with that on the memory slot.
   - Gently push the module into the slot until the ejector levers return completely to the closed position, holding the module in place when the module touches the bottom of the slot. To remove the module, press the ejector levers outwards to unseat the module.
3. Installing the expansion cards:
   - Locate the expansion slots and remove the screw, insert the cards into the slot at a 45-degree angle then attach the screw to the expansion cards, gently press down on it then install the screw back.
4. Connect all signal wires, cables, panel control wiring, and power supplies.
5. Start the computer and complete the setup of the BIOS program.

The board's components are integrated circuits and can easily be damaged by Electrostatic Discharge or ESD; therefore, please follow the instructions:

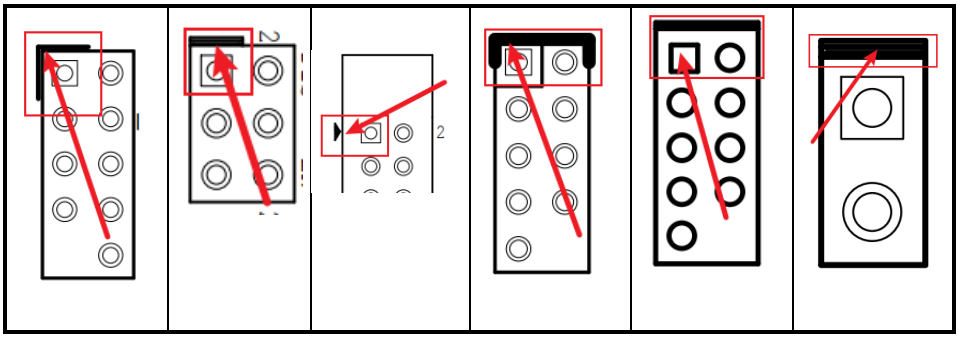
- Hold the board's edge when handing, and do not touch onboard pins, components, or plug sockets.
- When touching integrated circuit components (such as CPU, RAM, etc.), please wear an anti-static wrist strap/glove to avoid electrostatic discharge damage to the board or other sensitive components.
- Before installing the integrated circuits/sensitive components, place the sensitive components in anti-static bags to keep them safe from ESD.
- Please make sure the power switch is OFF before plugging the power plug.

2.2 Jumper Setting

Please configure the jumpers according to your requirements before installing the hardware.

How to identify the first header of jumpers and pins: Observe the mark beside the jumper or pins and find the header marked by “1” or bold line or triangular symbol. Or observe the rear panel and the header with a square solder pad is the first header.

Illustration:



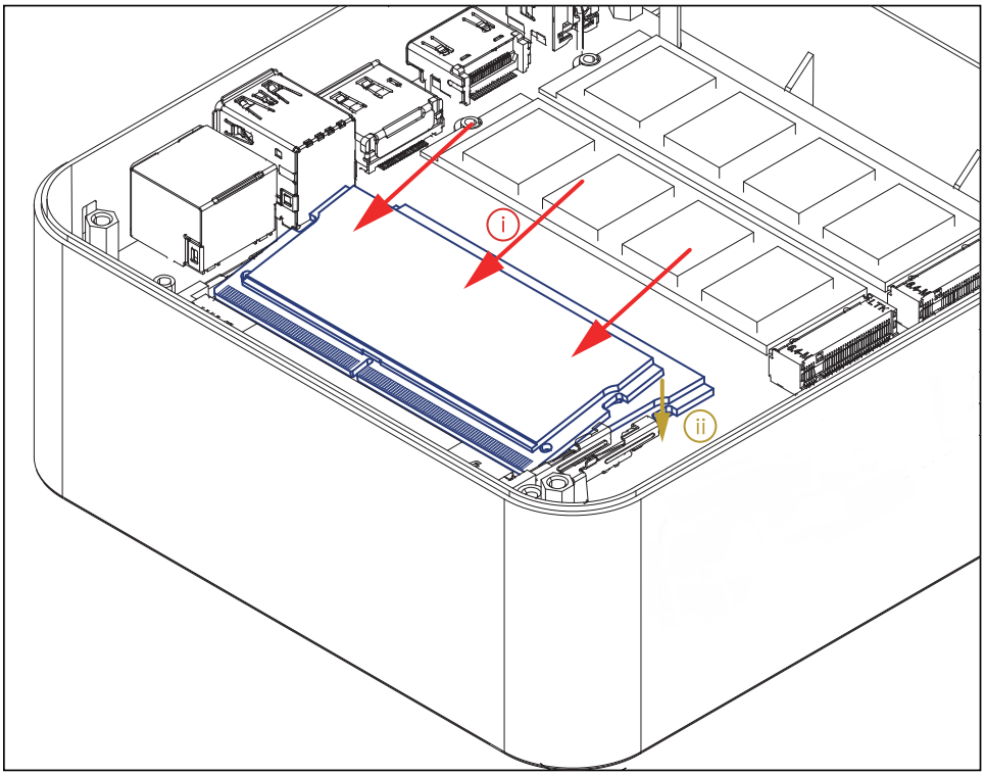
2.3 Memory Slots

The system is equipped with 2 × DDR4 SO-DIMM slots, supporting dual-channel memory configurations. The supported memory specifications are listed below:

Processor	Memory Specification
AMD Ryzen™ Embedded R2314 / R2514	2 × DDR4 SO-DIMM slots, dual-channel support, up to 64GB memory capacity, DDR4-2667 MT/s maximum data rate
AMD Ryzen™ 5 3500U / Ryzen™ 7 3700U	2 × DDR4 SO-DIMM slots, dual-channel support, up to 32GB memory capacity, DDR4-2400 MT/s maximum data rate

Memory Installation:

- Align the notch on the memory module with the key on the SO-DIMM slot and gently insert the module into the slot. Press down firmly on both sides of the module until the retaining clips secure it in place.
- Use memory modules that match the specifications supported by the motherboard to ensure proper installation and reliable system operation.

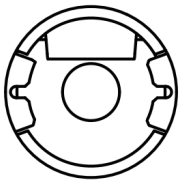


2.4 Power Supply (Labeled PWR on Board)

The system supports the following power input methods:

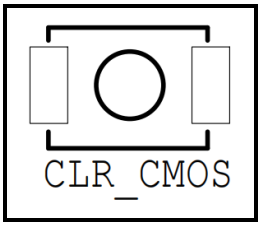
- 19V DC power input via a 5.5 mm × 2.5 mm DC jack
- USB Type-C Power Delivery (PD) input via the USB_C port, supporting up to 65W power adapter input (labeled USB_C on board)

Note: A USB Type-C PD power adapter with a minimum output of 65W is required when powering the system through the USB Type-C port.

PWR: 19V DC (65W Power Adapter) (5.5 mm × 2.5 mm) DC power input connector	
	

2.5 CMOS Clear Button (Labeled CLR_CMOS on Board)

The CLR_CMOS button is used to clear the CMOS data and restore the BIOS settings to their default values. The CMOS data is retained by the onboard coin-cell battery. Clearing the CMOS will erase the current BIOS configuration.



To clear the CMOS:

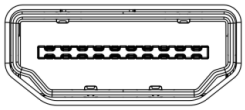
1. Shut down the Mini PC and disconnect the power adapter.
2. Insert a SIM eject tool or similar pointed tool into the **CLR_CMOS** pinhole located to the left of the power button. Press and hold the button for at least 3 seconds.
3. Reconnect the power and turn on the Mini PC. Press **Delete** during startup to enter the BIOS Setup Utility, then press **F9** to load the optimized defaults. Save the settings and exit the BIOS.

⚠ **Caution:** Do not clear the CMOS while the Mini PC is powered on, as this may damage the motherboard.

2.6 Display Interface

The system supports the following display interfaces:

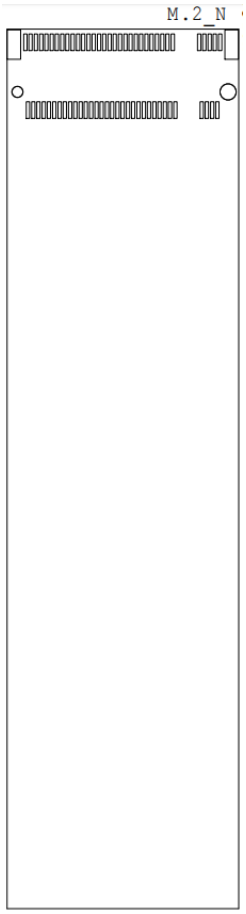
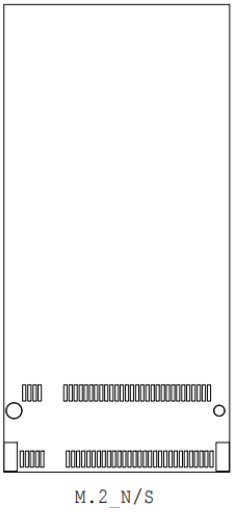
- 2 × HDMI 2.0 interface
- 1 × Full-featured USB Type-C interface

HDMI	USB-TYPE C
	

2.7 Storage Interfaces (Labeled M.2_N, M.2_N/S on Board)

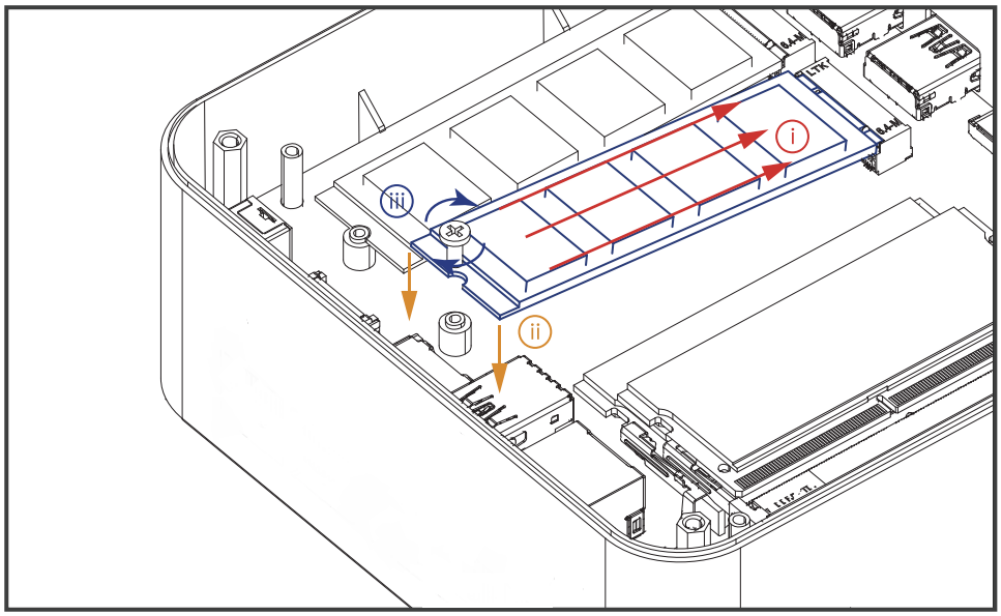
The system supports multiple storage devices through M.2 and SATA interfaces.

- 1 × M.2 Key M slot (labeled M.2_N on board), supporting 2280 NVMe SSD
- 1 × M.2 Key M slot (labeled M.2_N/S on board), supporting 2242 NVMe/SATA SSD

M.2_N	M.2_N/S
	

M.2 SSD Installation:

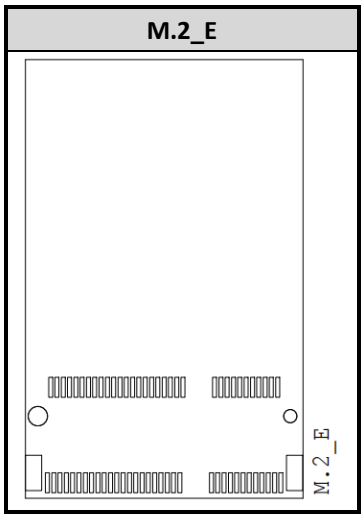
1. Align the M.2 Key M 2280 SSD with the slot and gently insert it into the connector.
2. Press down the SSD until it is aligned with the mounting hole.
3. Secure the SSD with the screw.



2.8 Expansion Slot (Labeled M.2_E on Board)

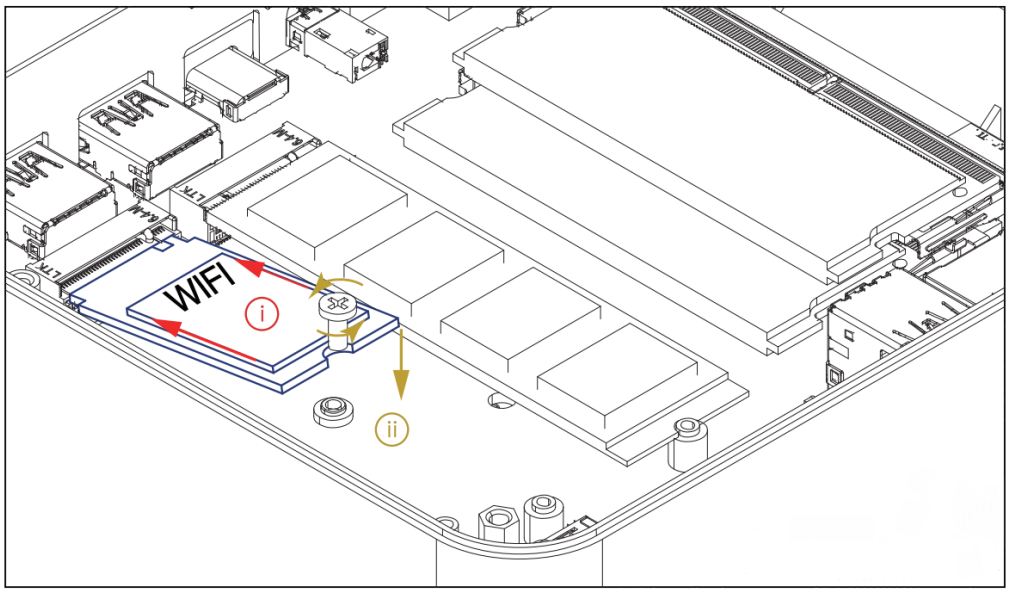
The system provides an M.2 Key E slot for wireless module expansion.

- 1 × M.2 Key E slot (labeled M.2_E on board), supporting 2230 Wi-Fi & Bluetooth modules (PCIe/USB 2.0)



M.2 Key E Wi-Fi & Bluetooth Module Installation:

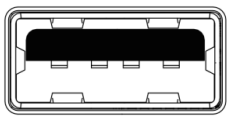
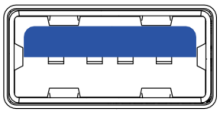
1. Align the notch of the M.2 Key E 2230 Wi-Fi & Bluetooth module with the slot key and gently insert the module into the connector.
2. Press down the module until it aligns with the mounting hole, then secure it with the screw.
3. Attach the antenna connectors to the Wi-Fi & Bluetooth module until they click into place, indicating a secure connection.



2.9 USB Interfaces (Labeled USB31, USB32, USB20, and USB_C1, USB_C2 on Board)

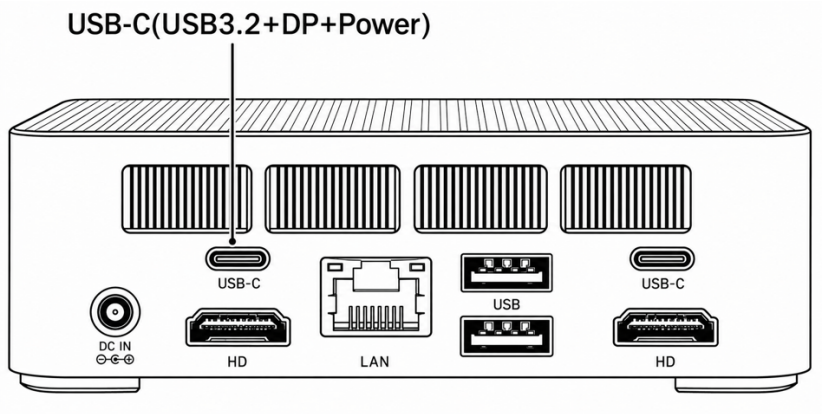
The system provides the following USB interfaces:

- 1 × USB 3.2 Gen 2 Type-A ports, up to 10 Gbps (labeled USB32 on board)
- 1 × USB 3.2 Gen 1 Type-A port, up to 5 Gbps (labeled USB31 on board)
- 2 × USB 2.0 Type-A ports, up to 480 Mbps (labeled USB20 on board)
- 1 × USB 3.2 Gen 2 Type-C port, up to 10 Gbps (labeled USB_C1 on board), supporting up to 10W power output for external devices
- 1 × USB 3.2 Gen 2 Type-C port, up to 10 Gbps (labeled USB_C2 on board)

USB20	USB31/USB32	USB_C1/USB_C2
		

Note: When powering the system through the USB Type-C port, a USB Type-C PD power adapter with a minimum output of 65W is required.

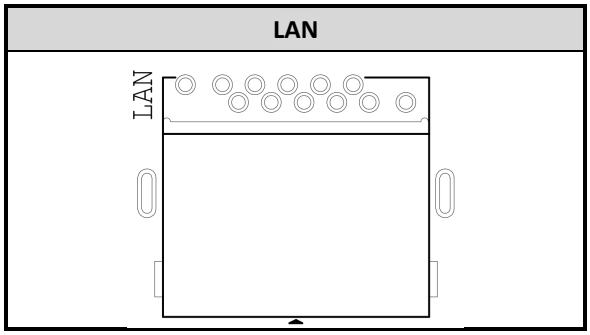
The USB-C interface locations are shown below:



The rear USB2.0 Type-A ports labeled **USB20** onboard provide 5V standby power. The system supports USB wake-up from shutdown (without power loss) and sleep states through a USB keyboard or mouse connected to these ports. These ports also support external device charging with a power output of 5V/0.5A.

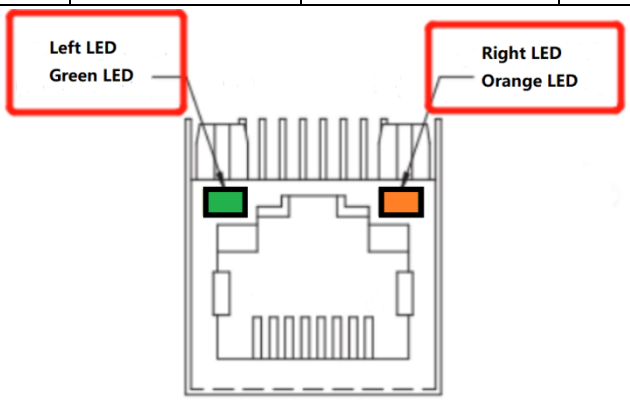
2.10 LAN Interfaces (Labeled LAN on Board)

The system integrates a Realtek RTL8111H Gigabit Ethernet controllers, providing 1 × RJ45 Ethernet port. The LAN interfaces support Wake-on-LAN (Magic Packet) and PXE network boot functions.



LAN Port LED Indicators:

LI_LED (Green)	Function	ACTLED (Orange)	Function
On	Link Established	Blinking	Network Activity

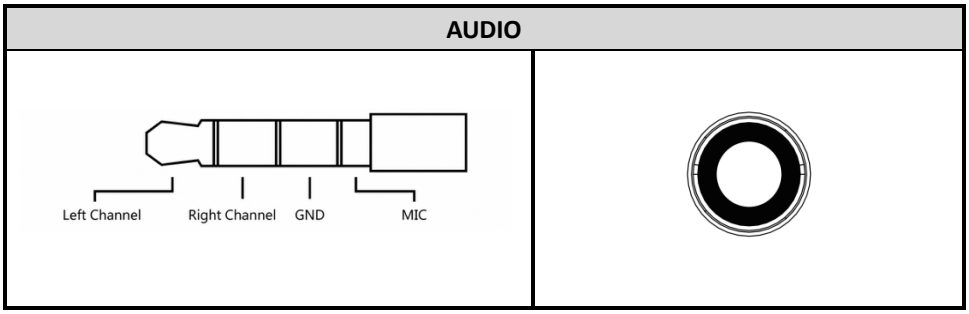


2.11 Audio Interface

The system integrates a SenaryTech SN6186 high-definition audio codec.

- 1 × 3.5 mm audio jack (labeled AUDIO on board)
  - Supports Line-out and Mic-in
  - CTIA standard

Audio Jack: 3.5 mm combo audio jack

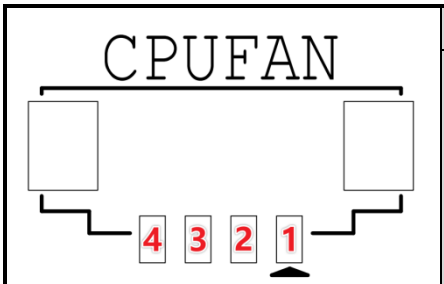


2.12 CPU Fan/System Fan Headers (Labeled CPUFAN on Board)

The system provides a fan header for CPU cooling:

- 1 × 4-pin 5V CPU fan header (labeled CPUFAN on board, 1.25 mm pitch)

CPU Fan Header Definition (Labeled CPUFAN on Board):

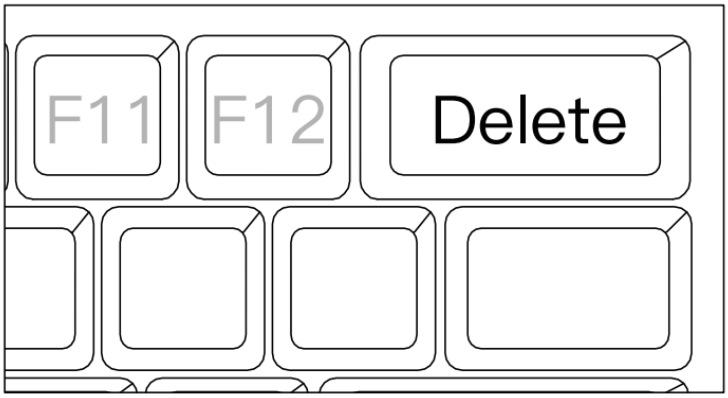


Pin	1	2	3	4
Signal	GND	VCC	TAC	PWM

Chapter 3 BIOS Setup

3.1 Entering the BIOS

Entering BIOS Setup: Press the <Delete> key repeatedly during system startup to enter the BIOS Setup Utility.



BIOS Hot Keys:

Key	Function	Description
→ ←	Select Screen	Navigate between menu screens.
↑↓	Select Item	Move between menu items or options.
Enter	Select	Open a submenu or confirm a selection.
+/-	Change Option	Adjust values or change settings.
F1	General Help	Displays helpful information for the selected item.
F2	Previous Values	Load the previously saved settings.
F9	Optimized Defaults	Restore factory default settings.
F10	Save & Exit	Save changes and exit BIOS.
ESC	Exit	Exit BIOS or return to the previous menu.

3.2 Main Menu (BIOS Info, Date, Time)



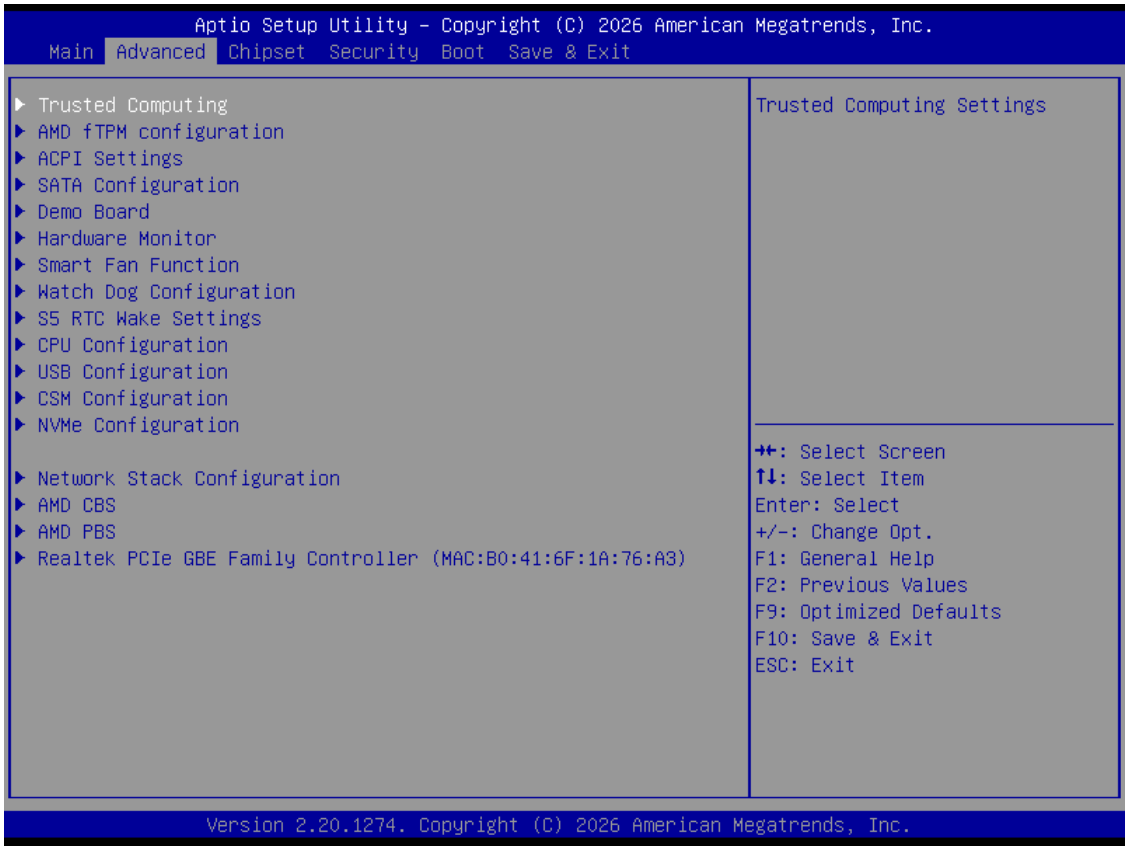
The Main menu displays basic system information and allows you to configure the system date and time.

BIOS Information

- BIOS Vendor: American Megatrends
- BIOS Version: Displays the current BIOS version
- Build Date and Time: BIOS build timestamp
- CPU Information: CPU identification details
- Memory Information: Installed system memory
- System Date: System date setting (format: MM/DD/YYYY)

System Time: System time setting (format: HH:MM:SS)

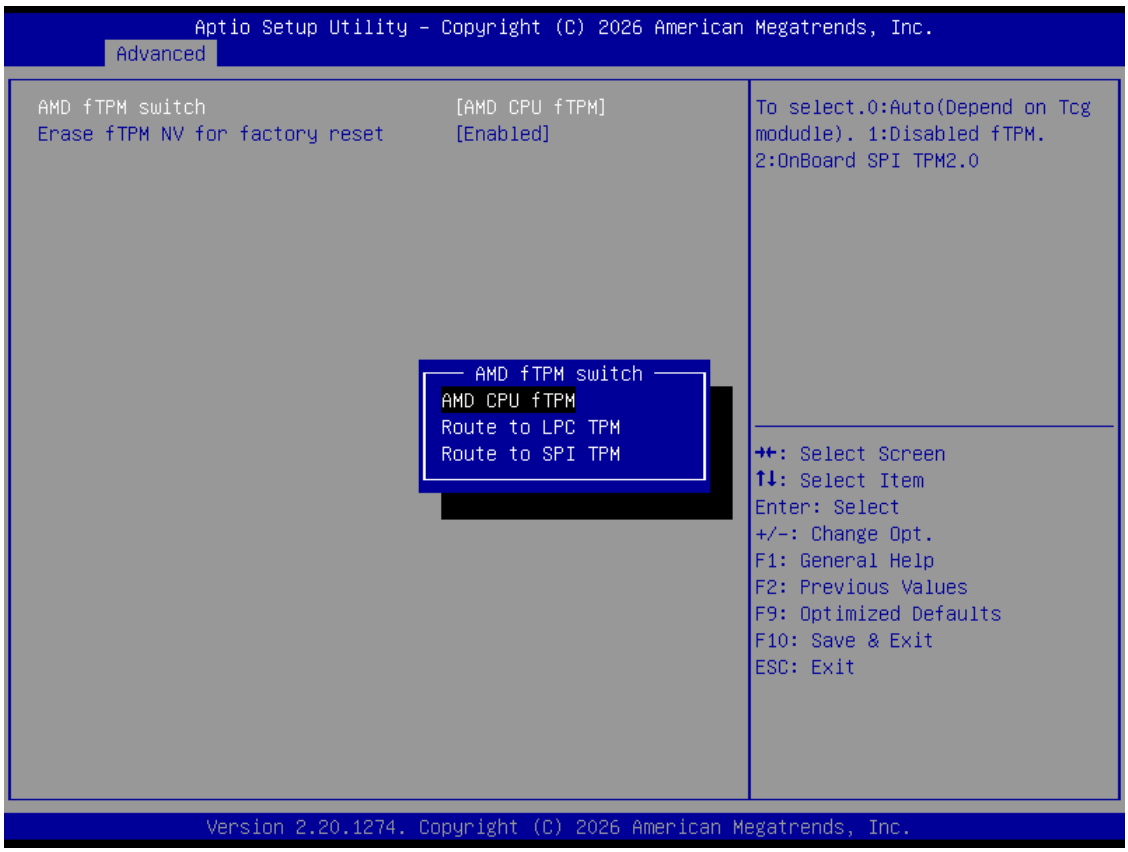
3.3 Advanced Settings



Selecting any item in the left pane opens its corresponding Advanced submenu. The Advanced section allows you to configure system features, adjust platform behavior, and modify CPU-related settings.

- Trusted Computing
- AMD fTPM Configuration
- ACPI Settings
- SATA Configuration
- Demo Board (Not Supported)
- Hardware Monitor
- Smart Fan Function
- Watchdog Configuration
- S5 RTC Wake Settings
- CPU Configuration
- USB Configuration
- CSM Configuration
- NVMe Configuration
- Network Stack Configuration
- AMD CBS
- AMD PBS

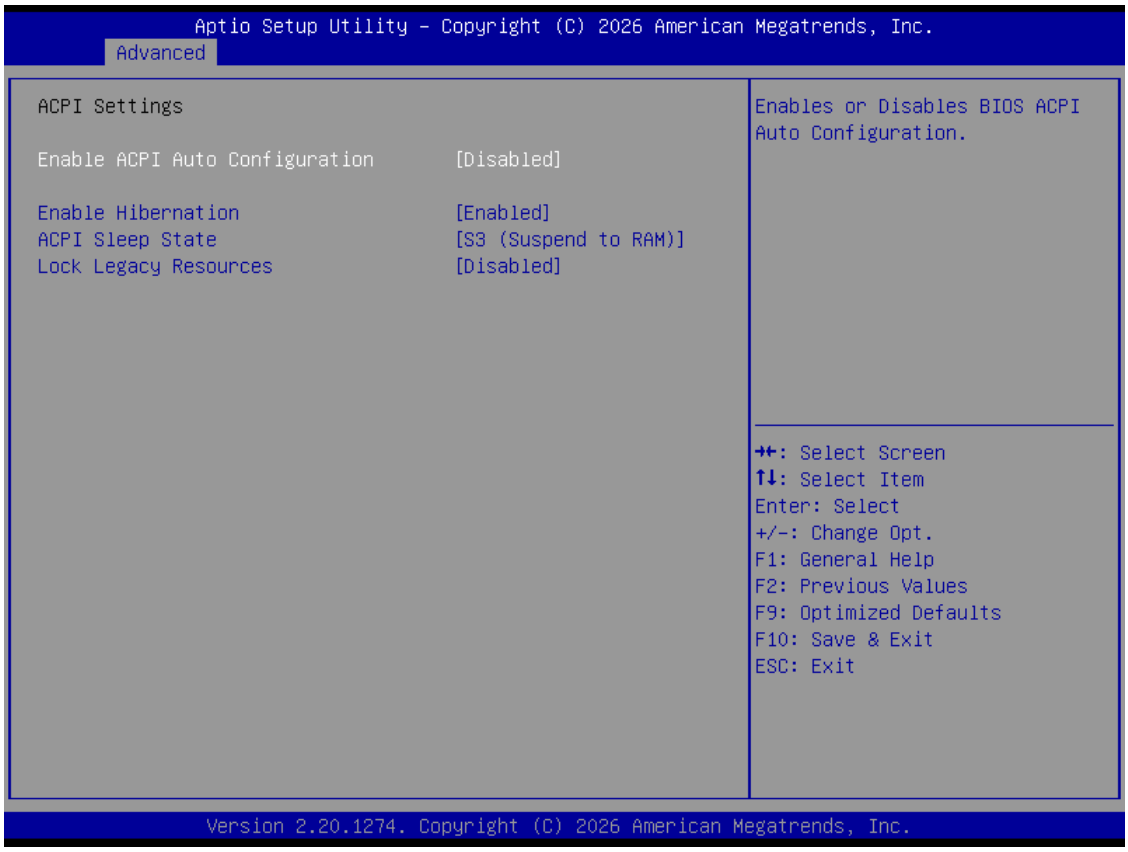
3.3.1 AMD fTPM configuration



AMD fTPM Configuration

- **AMD fTPM Switch**
  Configures the TPM device source:
  - **AMD CPU fTPM**: Uses the firmware TPM integrated in the AMD processor.
  - **Route to LPC TPM**: Uses an external TPM module connected through the LPC interface.
- **Erase fTPM NV for Factory Reset**
  Enables or disables clearing fTPM non-volatile data during factory reset or CPU replacement.
  Default setting: **Enabled**

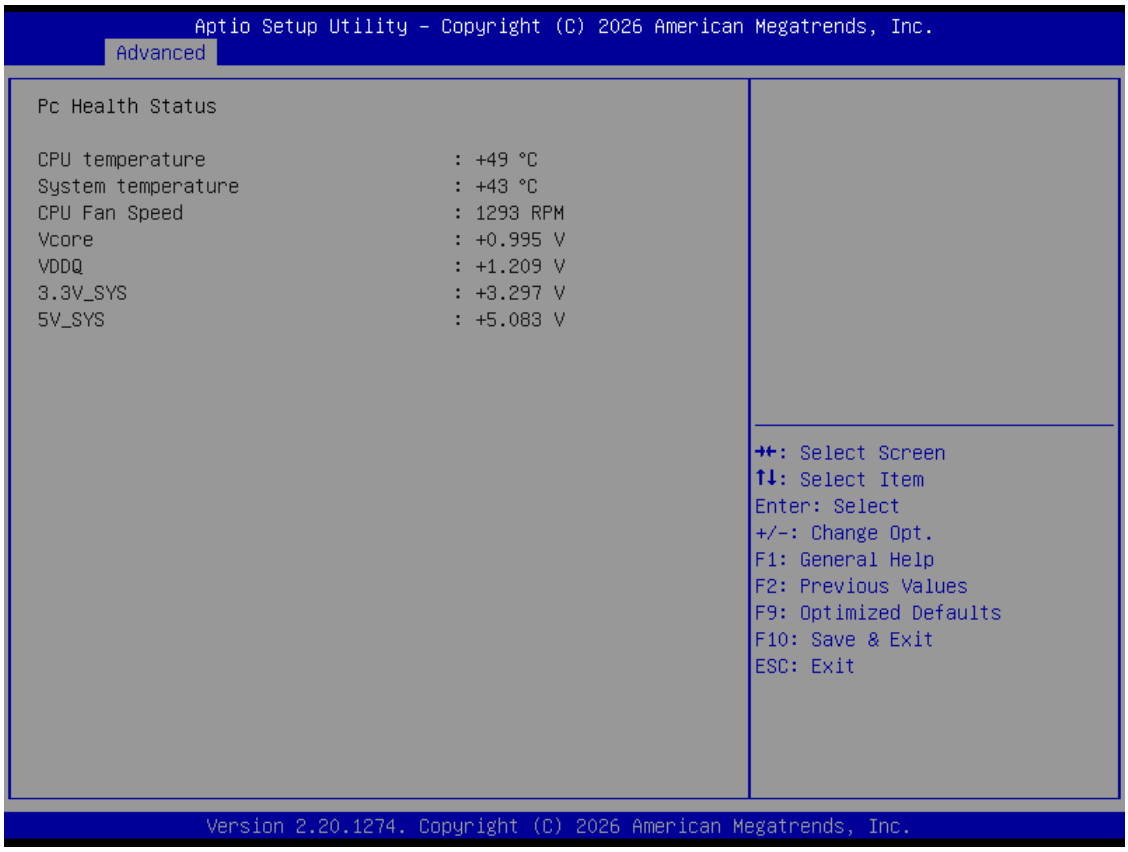
3.3.2 ACPI Settings



ACPI Settings

- **Enable ACPI Auto Configuration**: Enables or disables automatic ACPI configuration. Disabled by default.
- **Enable Hibernation**: Enables or disables system hibernation support.
- **ACPI Sleep State**: Selects the system ACPI sleep state.
- **Lock Legacy Resources**: Enables or disables locking of legacy system resource

3.3.3 Hardware Monitor

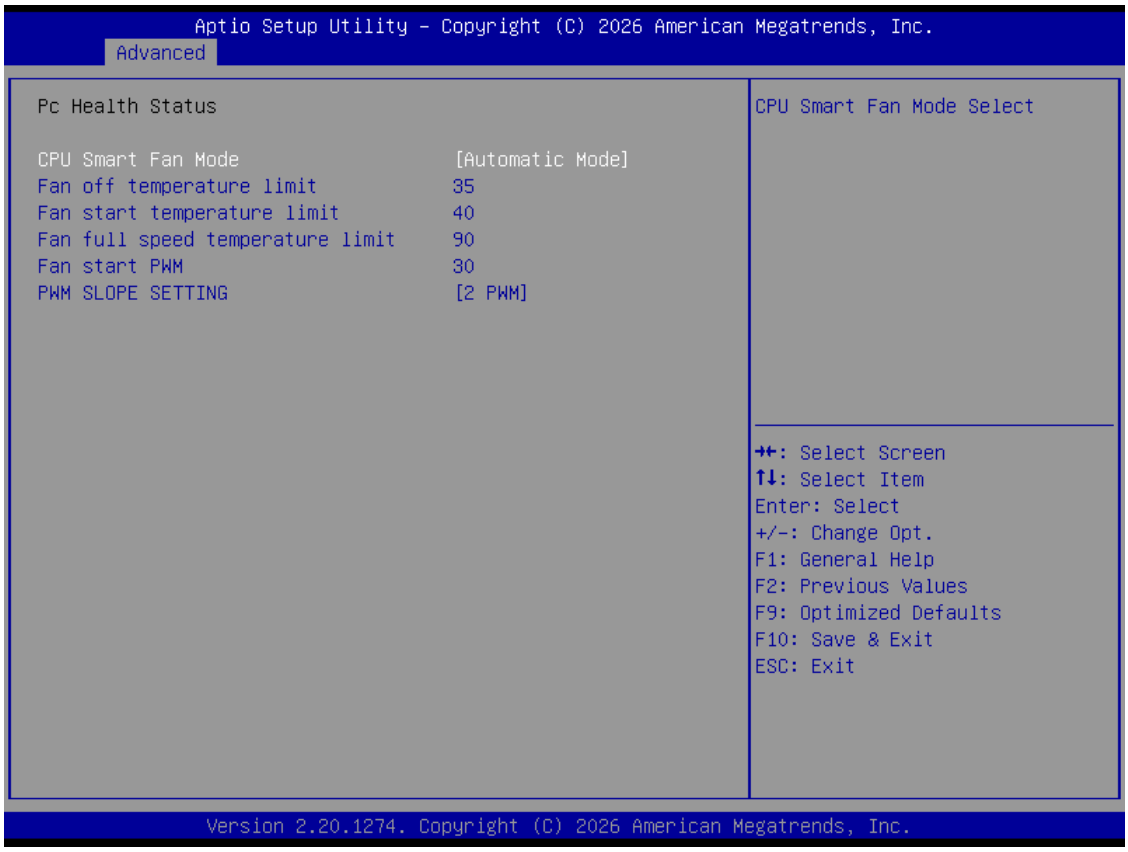


PC Health Status

The PC health status displays CPU temperature, system temperature, fan speed, and other relevant voltage values.

- **CPU Temperature:** Displays the current CPU temperature.
- **System Temperature:** Displays the current system temperature.
- **CPU Fan Speed:** Displays the current CPU fan speed.
- **Vcore:** Displays the CPU core voltage.
- **VDDQ:** Displays the memory I/O voltage.
- **3.3V_SYS:** Displays the system 3.3V voltage.
- **5V_SYS:** Displays the system 5V voltage

3.3.4 Smart Fan Function



PC Health Status → Smart CPU_Fan Mode

CPU Smart Fan Mode: allows users to configure CPU fan control settings.

- **Automatic Mode:** Automatically adjusts the fan speed according to system temperature. (Default)
- **Full On Mode:** Operates the fan at full speed continuously.
- **Manual Mode:** Allows users to manually configure fan control parameters.

Fan Off Temperature Limit: Sets the temperature below which the fan stops operating.

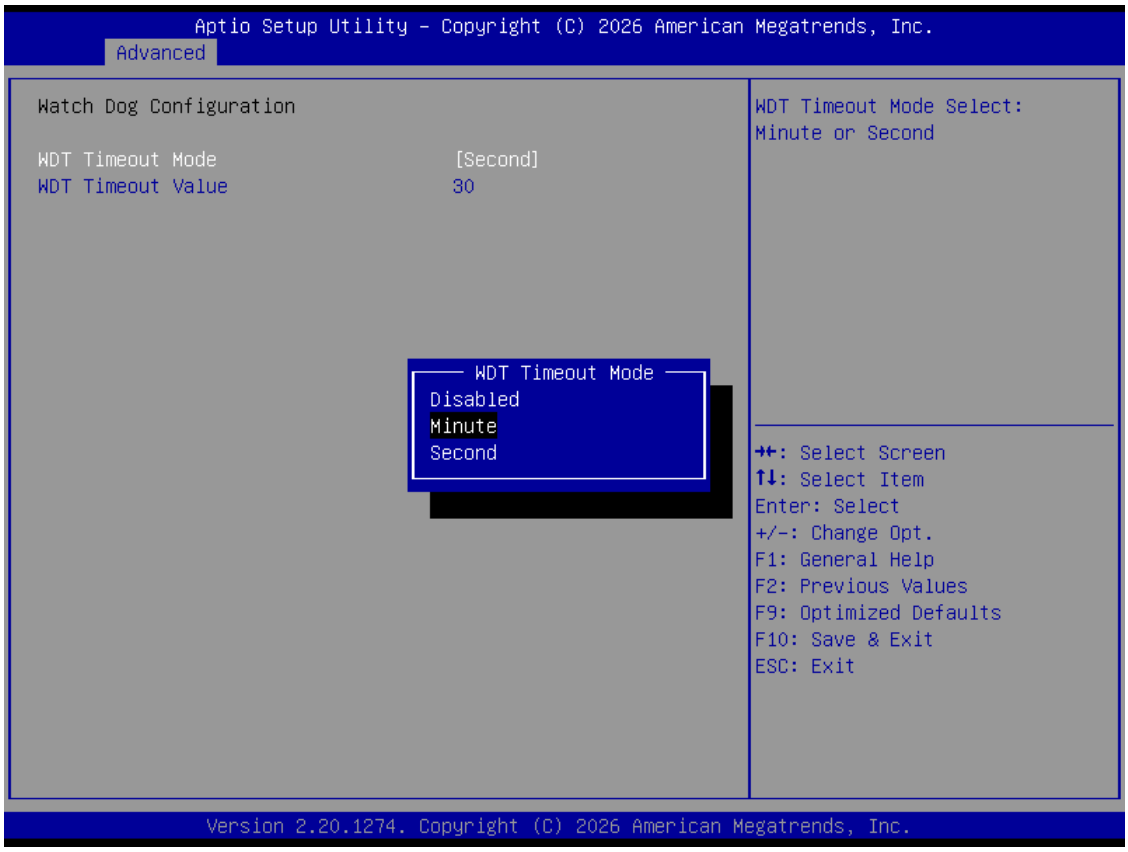
Fan Start Temperature Limit: Sets the temperature at which the fan starts operating.

Fan Full Speed Temperature Limit: Sets the temperature at which the fan operates at full speed.

Fan Start PWM: Sets the initial PWM duty cycle when the fan starts.

PWM Slope Setting: Adjusts the rate at which the PWM duty cycle increases as temperature rises.

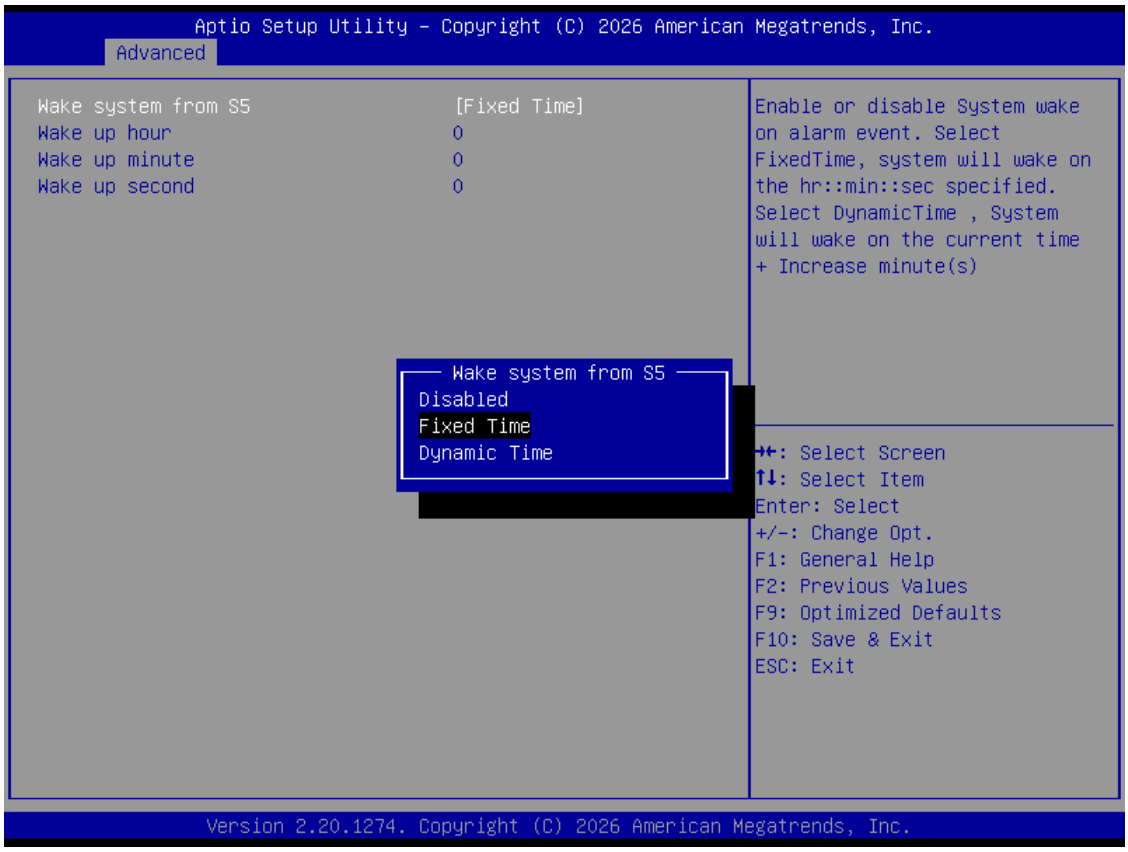
3.3.5 Watch Dog Configuration



Watch Dog Configuration

- WDT Timeout Mode: Select Minute or Second

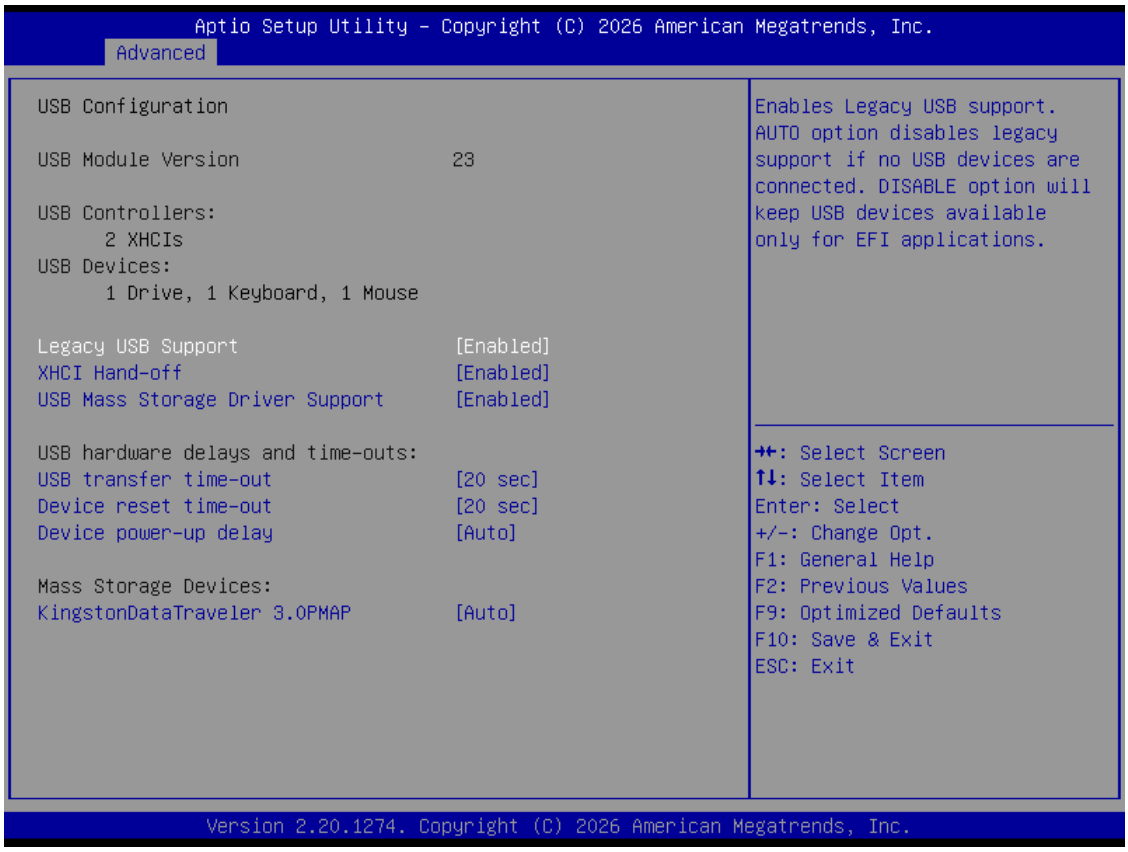
3.3.6 S5 RTC Wake Settings



S5 RTC Wake Settings

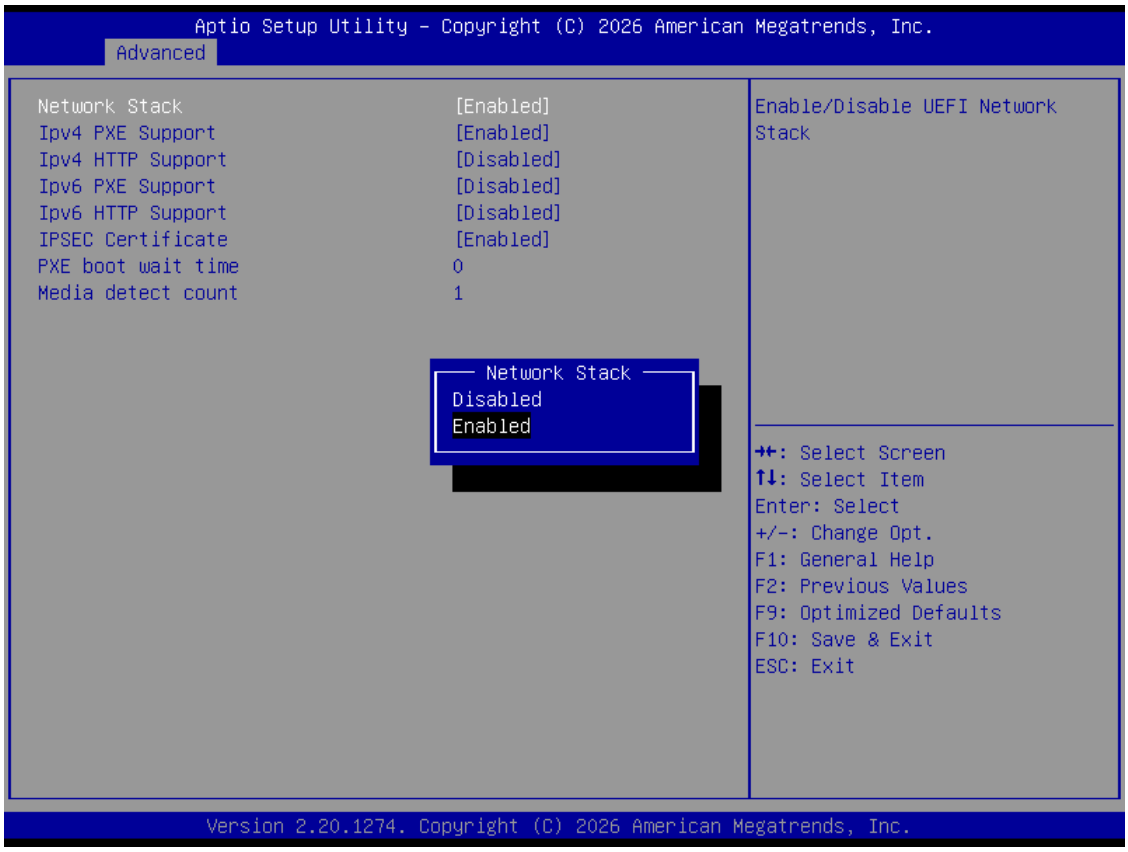
- **Wake System From S5**: Enables or disables automatic system power-on from the S5 (shutdown) state.
  Default: Disabled
- **Wake Time Mode**: Selects the wake-up timing mode.
  - **Fixed Time**: When selected, the system wakes at the specified **Hour:Minute:Second**.
  - **Dynamic Time**: When selected, the system wakes after a dynamically calculated time interval.

3.3.7 USB Configuration



- **Legacy USB Support:** Enable Legacy USB support. Disables legacy support if no USB devices are connected. Select enable will keep USB devices available under UEFI's support.
- **XHCI Hand-off:** A workaround for OS without XHCI hand-off support. The XHCI ownership change should be claimed by the USB XCHI driver.
- **USB Mass Storage Driver Support:** Enable(default) or disable USB Mass Storage Driver Support.
- **USB transfer time-out:** Time-out value for control, bulk, and interrupt transfers, default time:20 second.
- **Device reset time-out:** USB mass storage device starts unit command time-out, default time:20 second.
- **Device Power-up Delay:** Maximum time the device will take before it properly reports itself to the host controller.

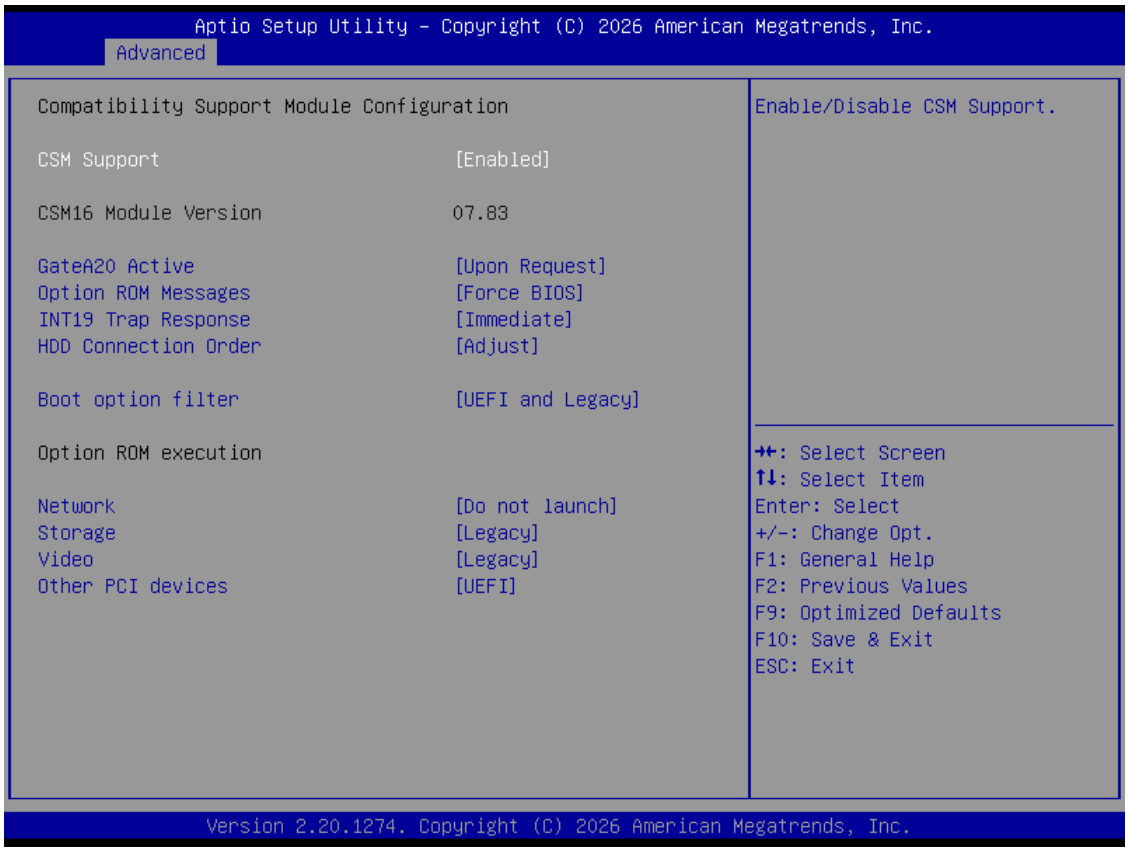
3.3.8 Network Stack Configuration



The Network Stack controls UEFI network boot (PXE/HTTP) and is disabled by default.

- **IPv4 PXE Support:** PXE boot over IPv4
- **IPv4 HTTP Support:** HTTP boot over IPv4
- **IPv6 PXE Support:** PXE boot over IPv6
- **IPv6 HTTP Support:** HTTP boot over IPv6
- **PXE Boot Wait Time:** Timeout delay for PXE boot
- **Media Detect Count:** Retry count for network device detection

3.3.9 CSM Support



CSM Support: Compatibility Support Module (CSM) provides legacy BIOS compatibility for operating systems that do not support UEFI boot mode.

- **Enabled (Default)**: Enables CSM support.
- **Disabled**: Disables CSM support.

Note:CSM support is always enabled when the system is configured to boot in Legacy mode.

Boot Option Filter: Configures the supported boot mode:

- **UEFI Only**: Supports UEFI boot mode only.
- **Legacy Only**: Supports Legacy BIOS boot mode only.
- **UEFI and Legacy**: Supports both UEFI and Legacy BIOS boot modes.

Option ROM Execution

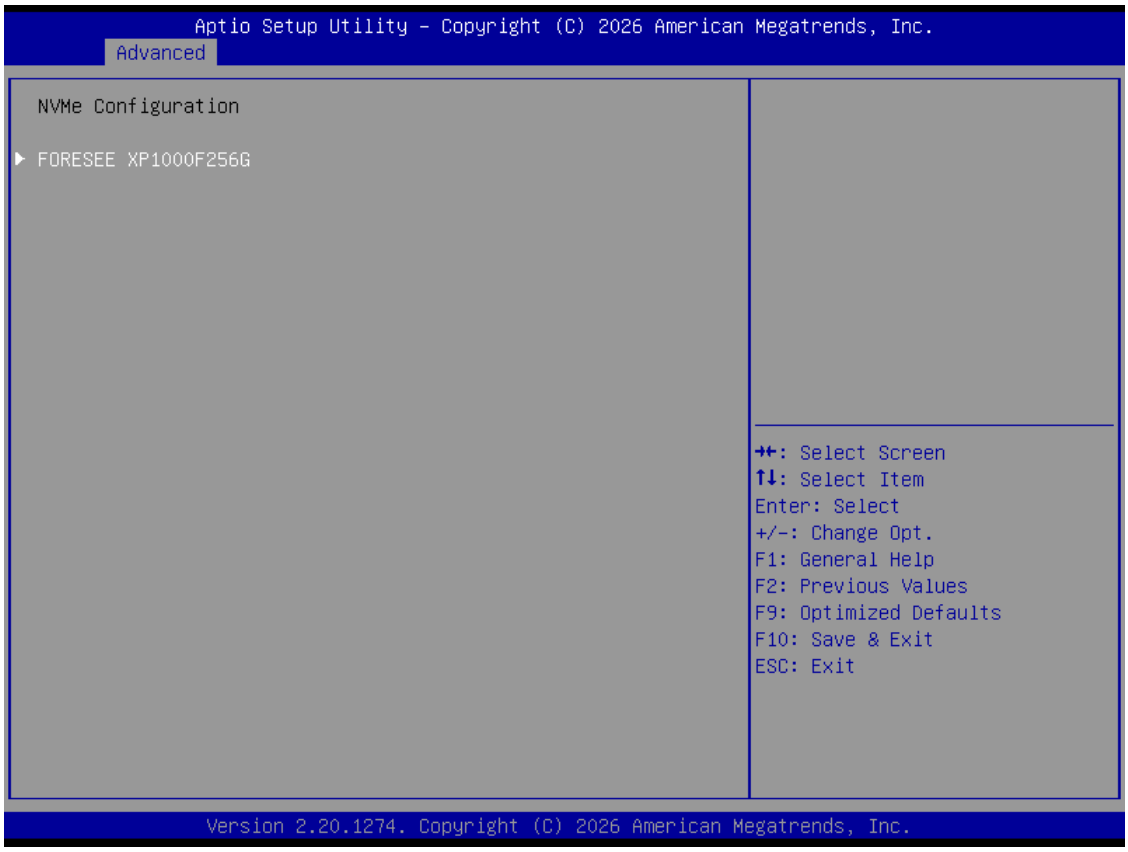
Network: Configures the loading mode of the network device Option ROM:

- **Do Not Launch (Default)**: Does not load the network device Option ROM.
- **UEFI**: Loads the network device Option ROM in UEFI boot mode.
- **Legacy**: Loads the network device Option ROM in Legacy boot mode.

Storage: Configures the loading mode of the storage device Option ROM:

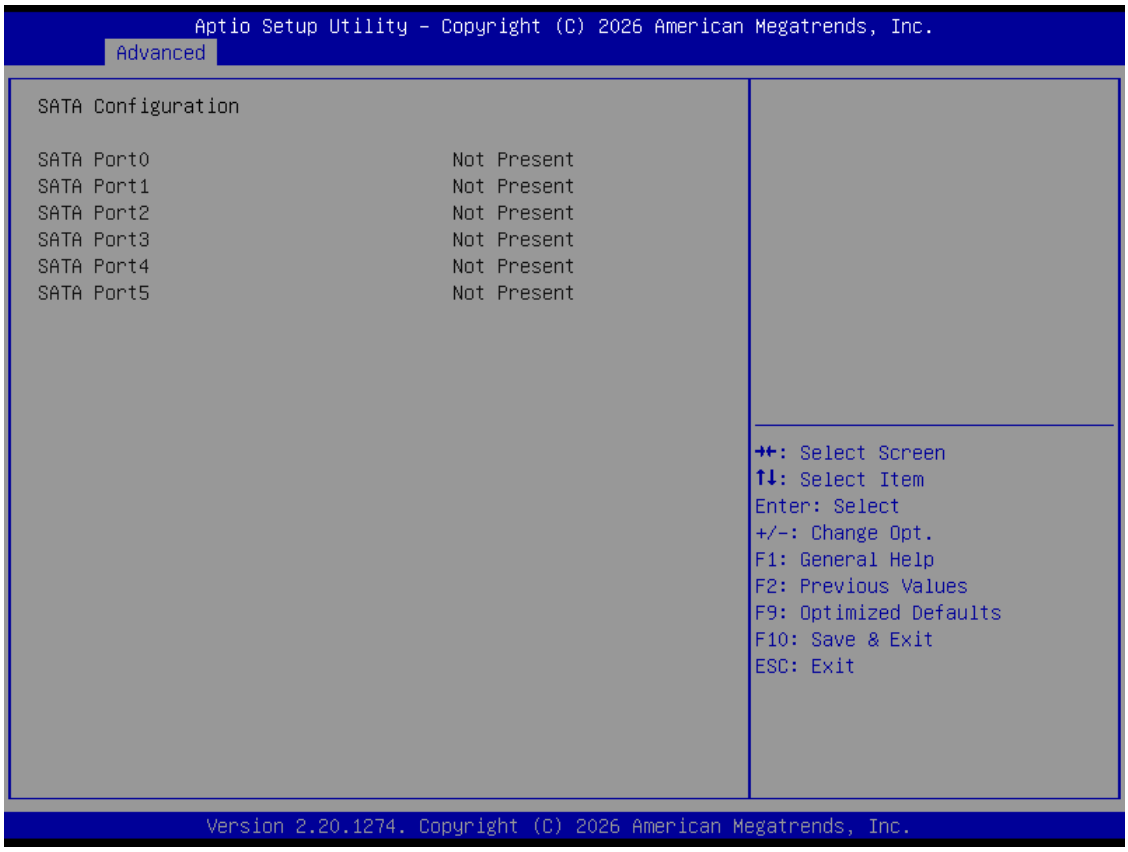
- **Do Not Launch**: Does not load the storage device Option ROM.
- **UEFI**: Loads the storage device Option ROM in UEFI boot mode.
- **Legacy (Default)**: Loads the storage device Option ROM in Legacy boot mode

3.3.10 NVME Configuration



When an NVMe SSD is installed, this menu displays information such as the drive model and storage capacity.

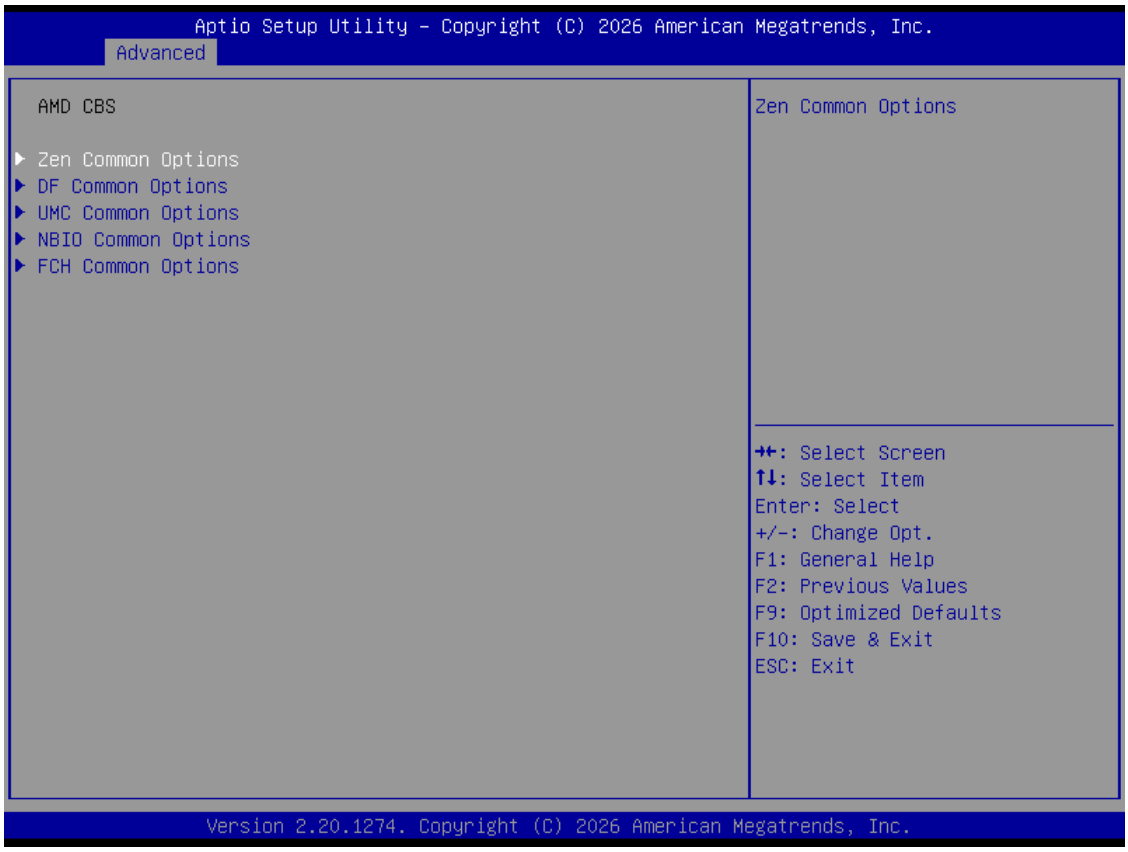
3.3.11 SATA Configuration



SATA Configuration

When a SATA storage device is connected, this menu displays the device information, including the model's name and storage capacity.

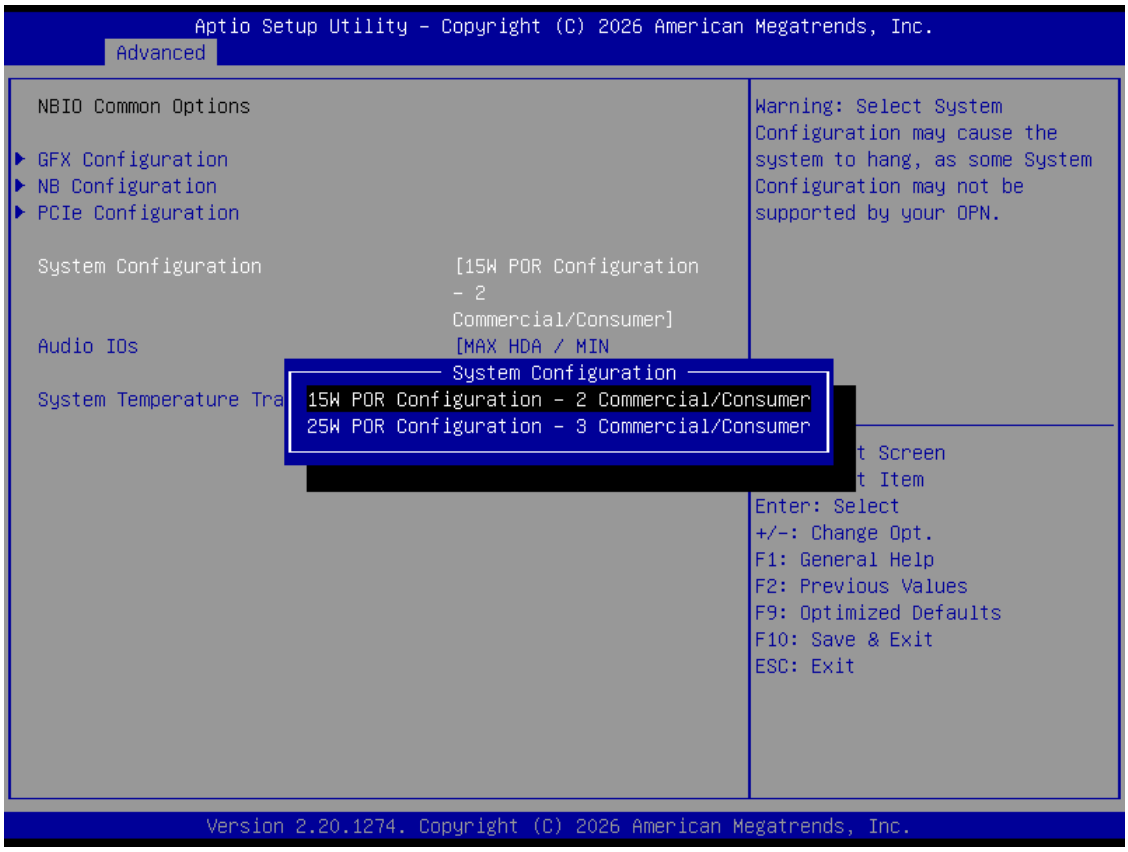
3.3.12 AMD CBS



The AMD CBS (Common BIOS Settings) menu provides access to advanced AMD platform configuration options.

- **Zen Common Options:** CPU configuration options
- **DF Common Options:** Data Fabric configuration options
- **UMC Common Options**: Unified Memory Controller options
- **NBIO Common Options:** Northbridge I/O options
- **FCH Common Options:** Fusion Controller Hub options

3.3.13 NBIO Common Options



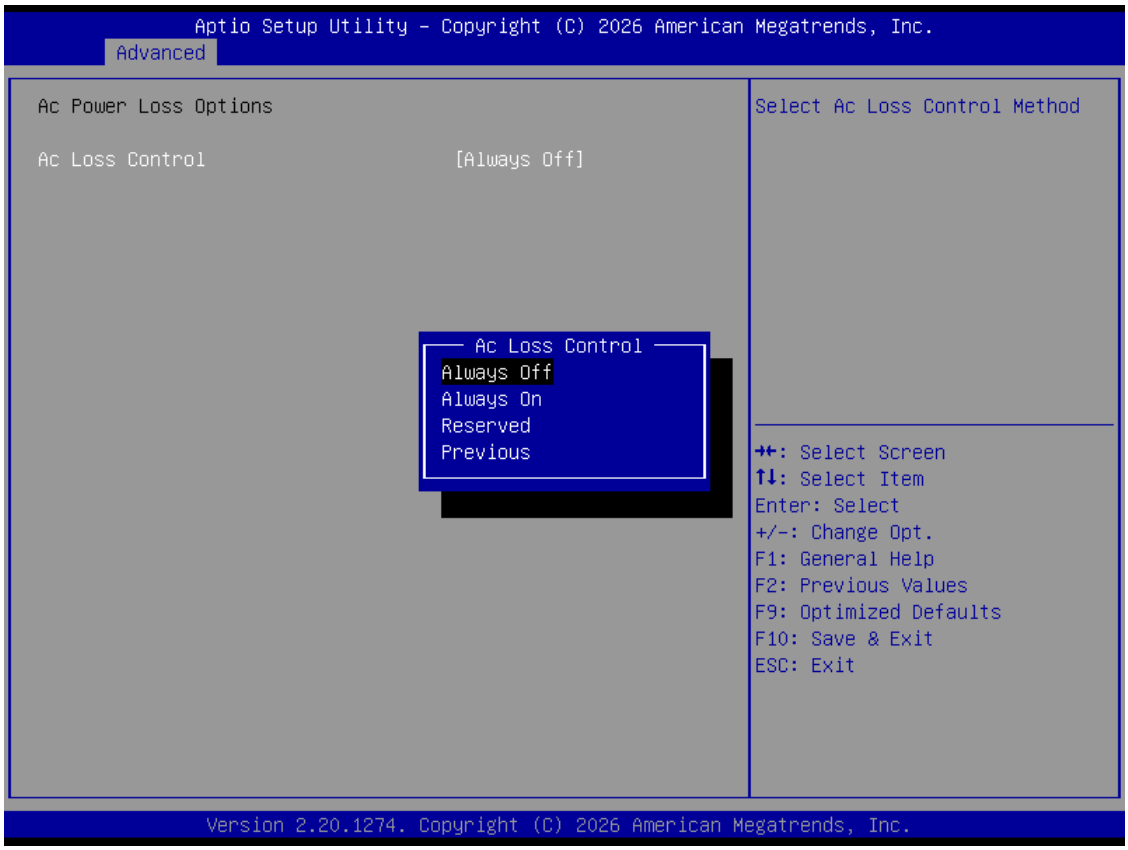
System Configuration

Configures the CPU TDP limit according to system requirements and thermal design.

- Default setting: **15W**
- Available options: **15W / 25W** (depending on the processor and system configuration)

BIOS Path: Advanced → AMD CBS → NBIO Common Options → System Configuration → 15W/25W POR Configuration - 2/3 Commercial/Consumer

3.3.14 FCH Common Options



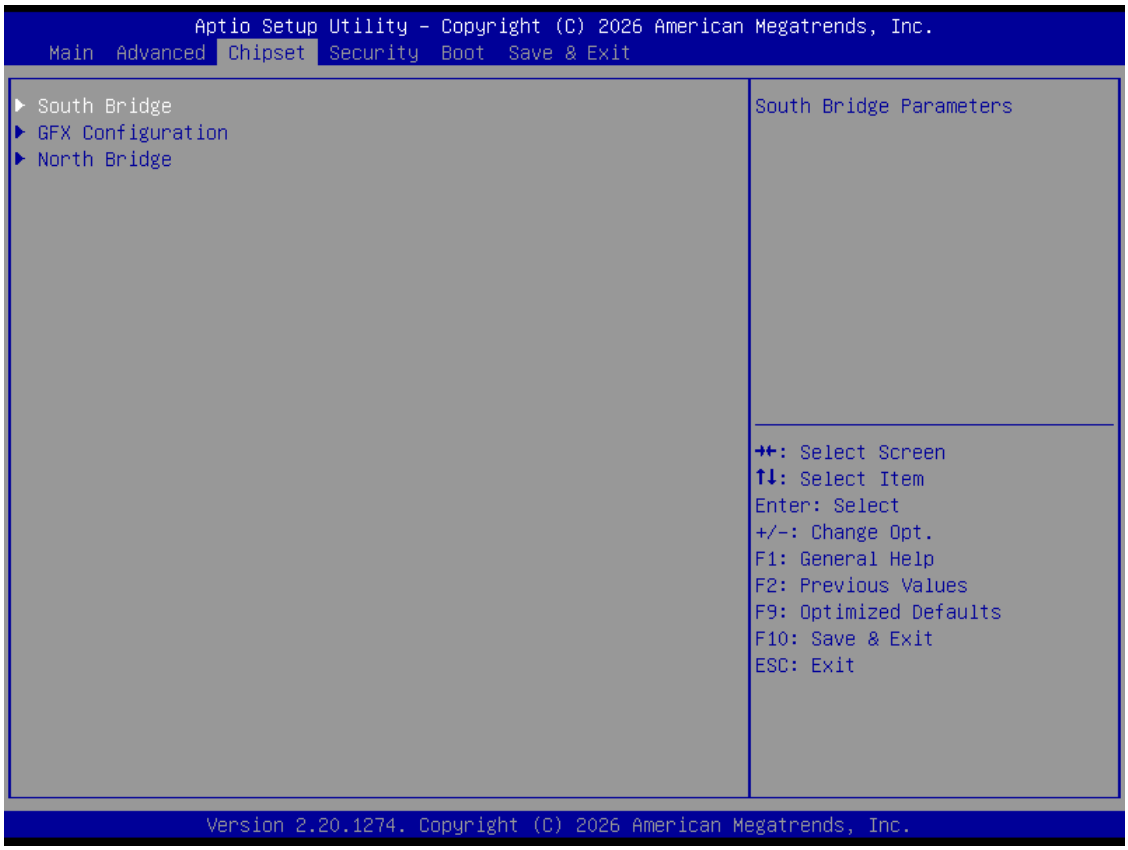
The FCH Common Options configure chipset-level power management and ACPI-related behavior, including system power-on behavior after AC power restoration.

Advanced > AMD CBS > FCH Common Options > AC Loss Control

AC Power Loss Options: Controls system behavior after AC power is restored.

- **Always Off (Default):** The system remains powered off when AC power is restored.
- **Always On:** The system automatically powers on when AC power is restored.
- **Reserved/Previous:** The system remains off after a normal shutdown. If AC power is lost unexpectedly, the system restores its previous power state when power is recovered**.**

3.4 Chipset

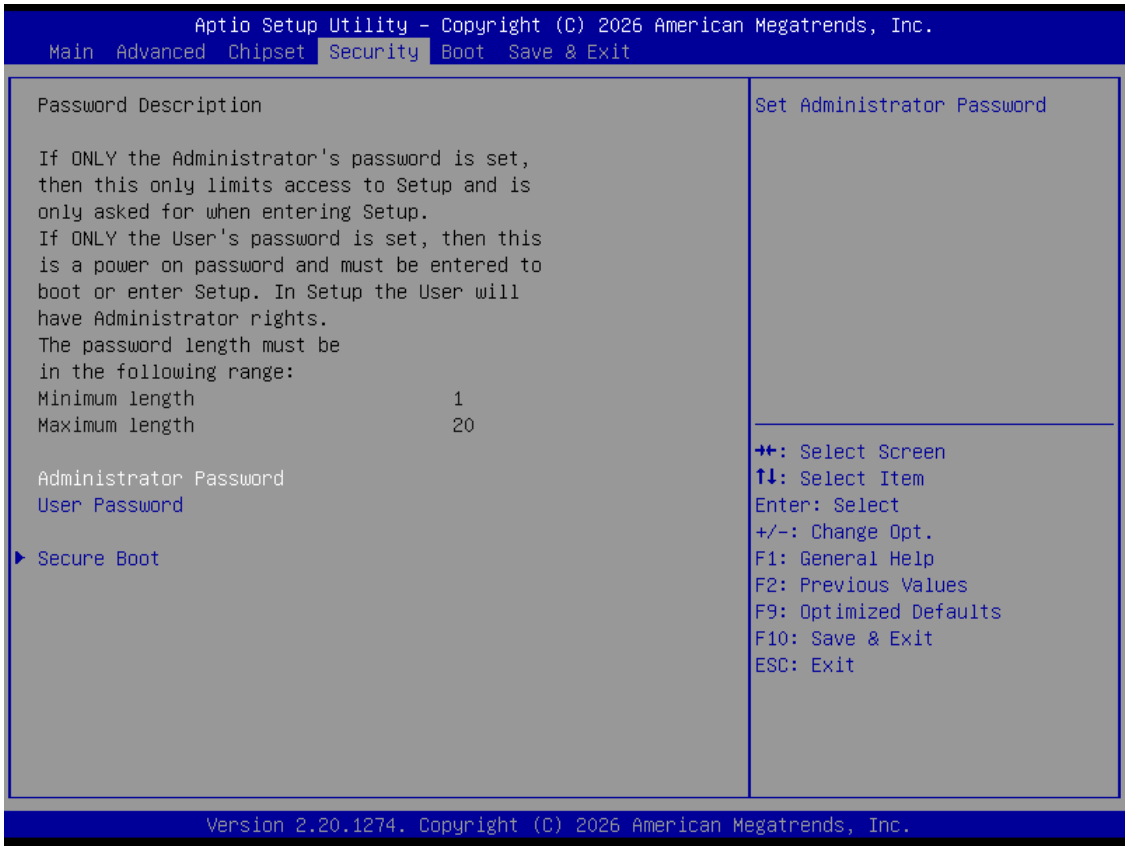


South Bridge: Configures South Bridge–related settings and peripheral functions.

GFX Configuration (Not Supported): Configures integrated graphics settings.

North Bridge: Configures North Bridge–related settings.

3.5 Security

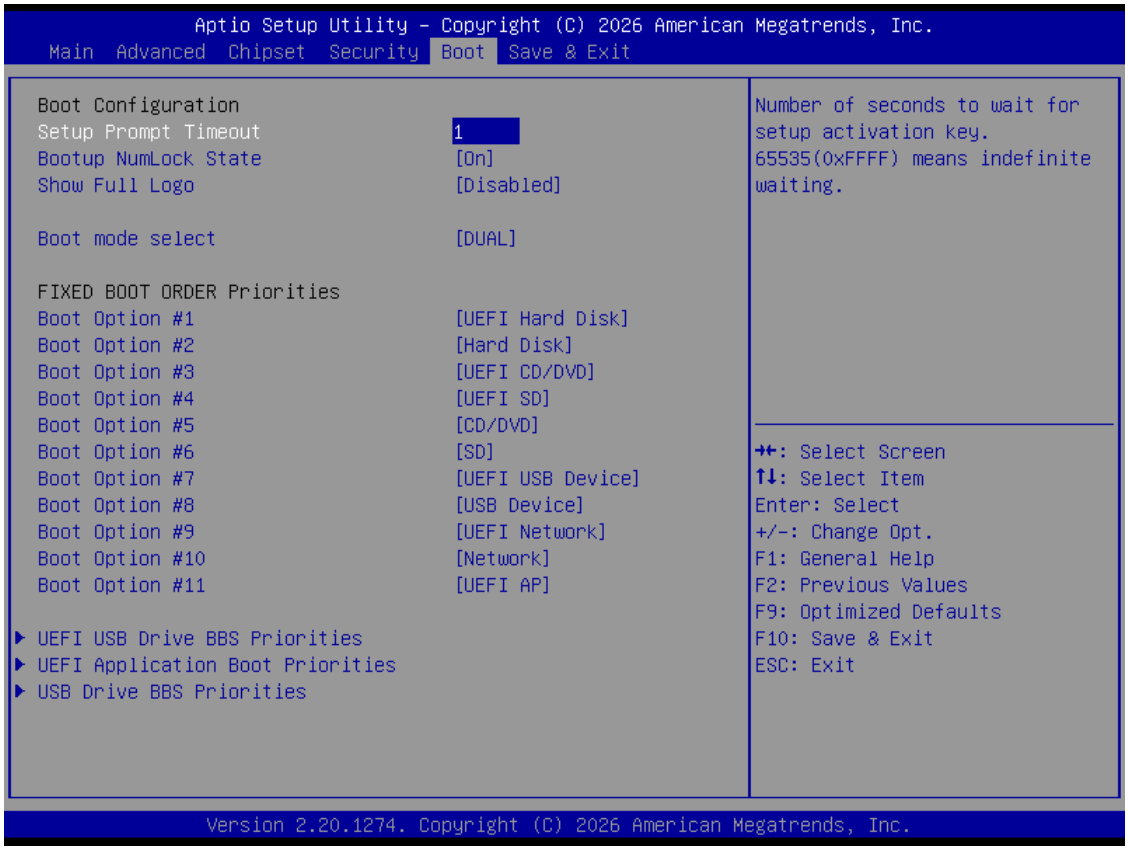


Administrator Password: Set the Administrator Password.

User Password: Set User Password.

Secure Boot: Configures Secure Boot settings.

3.6 BOOT



Setup Prompt Timeout: Sets the waiting time for the BIOS setup prompt during system startup. Press **<Delete>** within the specified time to enter BIOS Setup; otherwise, the system will continue the boot process.

Bootup NumLock State: Controls the NumLock status during system startup.

- **On (Default)**: Enables NumLock after booting.
- **Off**: Disables NumLock, and the numeric keypad functions as cursor control keys.

Show Full Logo: Enables or disables displaying the full-screen boot logo.

- **Enabled**: Displays the full boot logo.
- **Disabled**: Displays the standard startup screen.

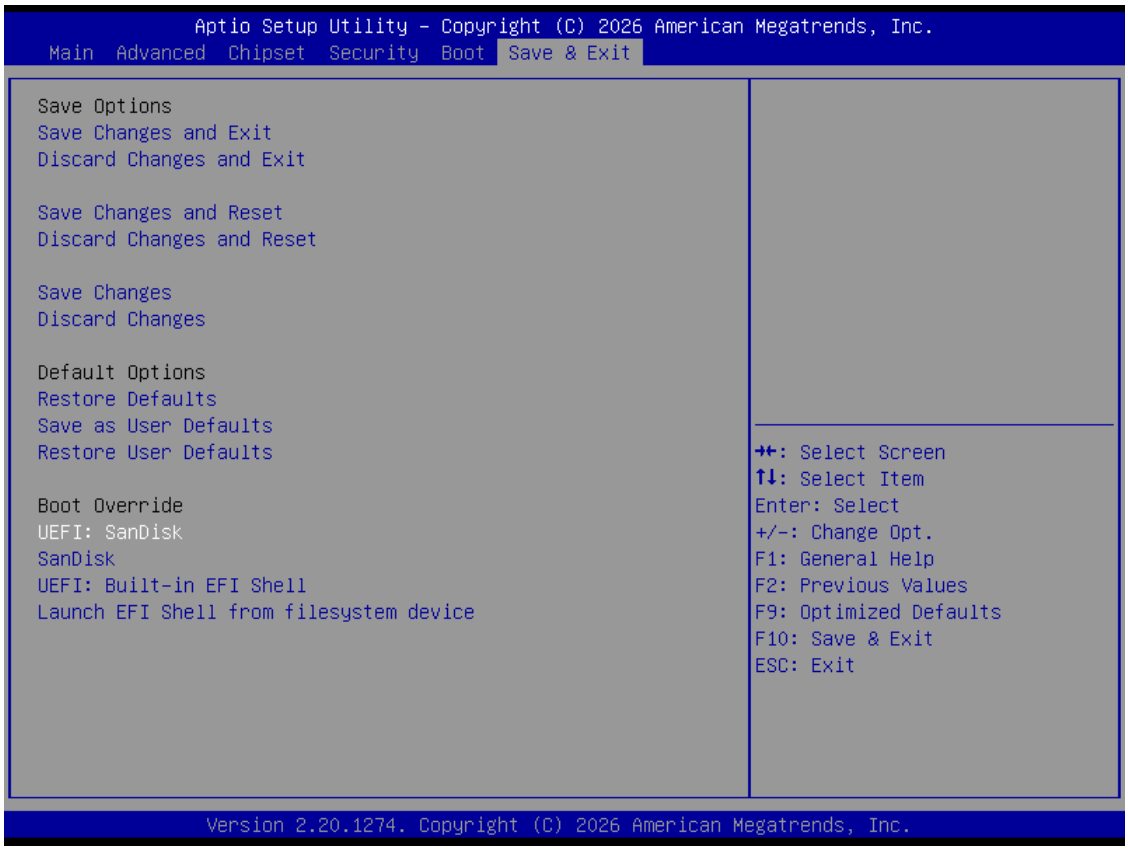
Boot Mode Select: Selects the system boot mode.

- Default setting: **Dual (UEFI and Legacy)**

Boot Option #1 ~ #11: Configures the boot priority order for available boot devices.

- **UEFI USB Drive BBS Priorities**
  Configures the boot priority of UEFI USB storage devices.
- **UEFI Application Boot Priorities**
  Configures the boot priority of UEFI applications.
- **USB Drive BBS Priorities**
  Configures the boot priority of USB Drive devices.

3.7 Save & Exit



Save Changes and Exit: Exit the system setup after saving the changes and continue to start the computer.

Discard Changes and Exit: Exit the system setup without saving any changes and continue to start the computer.

Save Changes and Reset: Reset the system after saving the changes.

Discard changes and Reset: Reset the system without saving any changes.

Save Changes: Save changes done so far to any of the options.

Discard Changes: Discard changes done so far to any of the options.

Restore Defaults: Restore/load default values for all the options.

Save as User Defaults: Save the changes done so far as the user defaults.

Restore User Defaults: Restore the user defaults to all the options.

Boot Override: Boot device selection can override your boot priority. Select the specified boot device such as SATA, USB Flash Disk, EFI Shell, PXE, etc., and boot directly. Or press F11 boot by selecting the specified boot device.

- **UEFI: Built-in EFI Shell**: Launches the built-in UEFI EFI Shell.
- **Launch EFI Shell From Filesystem Device**: Launches the EFI Shell from a filesystem device.