NUC BOX-1260P
NUC BOX-1240P
NUC BOX-1220P

User Manual

Version 1.0
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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.

CALIFORNIA, USA ONLY

The Lithium battery adopted on this motherboard contains Perchlorate, a toxic substance controlled in Perchlorate Best Management Practices (BMP) regulations passed by the California Legislature. When you discard the Lithium battery in California, USA, please follow the related regulations in advance.
"Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate"

ASRock Industrial's Website: https://www.asrockind.com

Replaceable batteries

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Contact Information

If you need to contact ASRock Industrial or want to know more about ASRock Industrial, you're welcome to visit ASRock Industrial's website at https://www.asrockind.com; or you may contact your dealer for further information.

ASRock Industrial Incorporation
Email: Info_ipc@asrockind.com

Contents

Chapter 1 Introduction

Because the hardware specifications might be updated, the content of this documentation will be subject to change without notice.

1.1 Package Contents

- NUC 1200 BOX Series
- 1 x SATA 1 to 1 Power Cable
- 4 x HDD Screws (M3x4)
- 1 x WiFi Module Screw
- 1 x Screw for M.2 slot
- 1 x Bracket for M.2 2280 support
- 1 x 19V/90W Power Adapter
- 1 x Screw Package
- 1 x VESA mounting bracket
- Quick Installation Guide

If any items are missing or appear damaged, contact your authorized dealer.

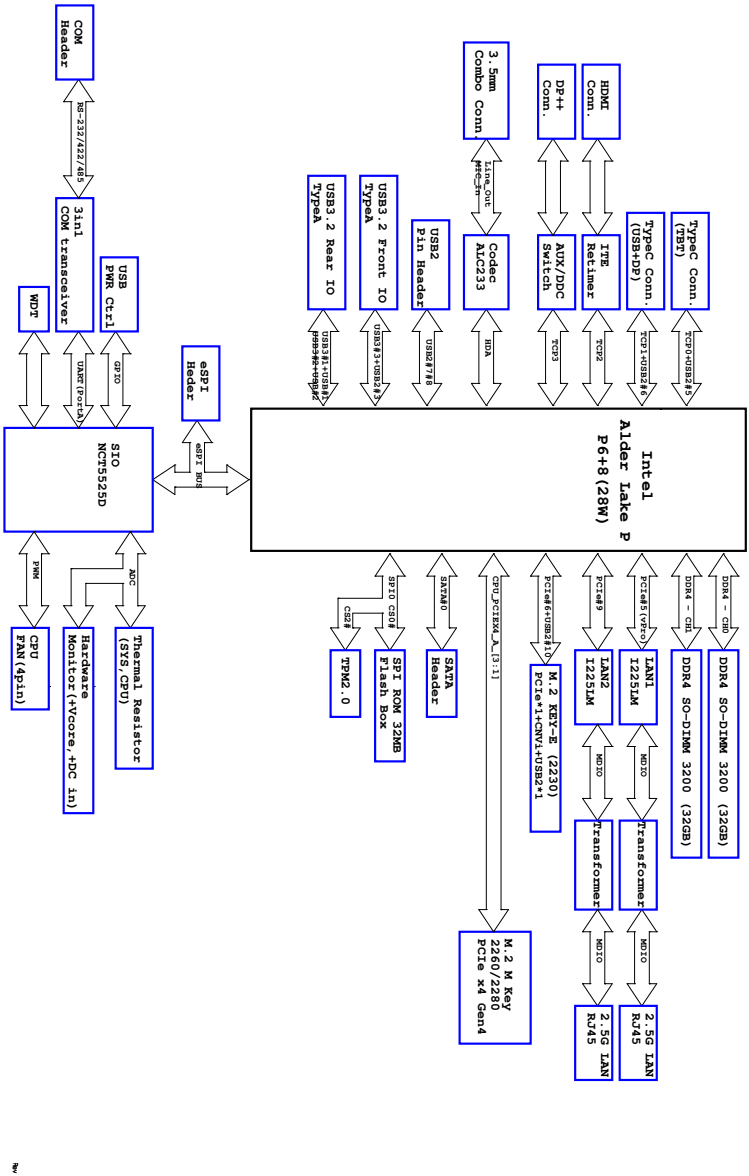
1.2 Product Specifications

NUC 1200 BOX Series	Barebone
CPU	Intel® 12th Gen (Alder Lake-P) Core™ Processors NUC BOX-1260P (i7-1260P) NUC BOX-1240P (i5-1240P) NUC BOX-1220P (i3-1220P)
Chipset	MCP
BIOS	AMI SPI 256 Mbit
Memory	Supports Dual Channel DDR4 3200 MHz, 2 x 260-pin SO-DIMM, Max. 64GB (32 GB per DIMM)
HDD	**M.2 slot** 1 x M.2 (Key M, 2242/2260/2280) with PCIe Gen4 x4 for SSD *M.2 Key M 2280(Supported by bracket) **2.5"HDD** Supports 1 x 2.5" SATA HDD*/SSD
LAN	Intel® I225LM with 10/100/1000/2500 Mbps
WiFi	1 x Wi-Fi 6E 802.11ax (2.4Gbps) + BT 5.2 (M.2 Key E, 2230 PCIe x1, USB 2.0 for Wireless)
Audio	Realtek ALC233, High Definition Audio
Front I/O	1 x USB 3.2 Gen2 (Type A), 2 x USB 3.2 Gen2 (Type-C, Supports DP1.4a display output) * USB4™ Compliance Test is pending for certification, 1 (headphone & microphone jack)
Rear I/O	1 x HDMI 2.0b, 1 x DP1.4a, 2 x 2.5 Gigabit LAN, 2 x USB 3.2 Gen2 (Type-A), DC-IN

Power Unit	19V/90W Power Adapter
Dimension	110.mm (W)x 117.5mm (D) x 47.85mm (H)
VESA	Bracket included , supports 75 x 75 and 100 x 100 mm
Weight	1.0Kg
Operating Temperature	0°C~40°C

** For NUC 1200 BOX Series, it is not recommended to install 2.5" HDD. If you install the 2.5" HDD, please keep the NUC 1200 BOX Series in a vertical position to ensure better cooling performance.*

1.3 Block Diagram

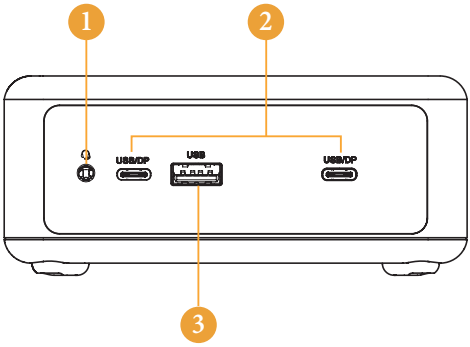


English

Chapter 2 Product Overview

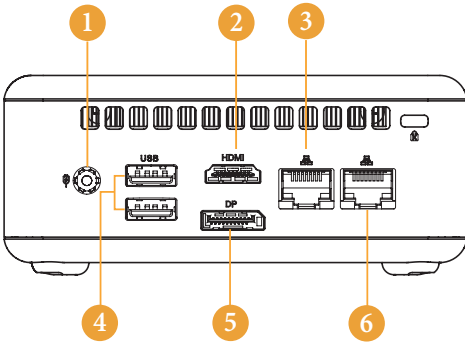
This chapter provides diagrams showing the location of important components of the NUC 1200 BOX Series.

2.1 Front View



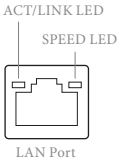
No.	Description
1	Audio(Mic-in, Line-out)
2	USB 3.2 Gen2 (Type C, supports DP1.4a display output)
3	USB 3.2 Gen2 (Type A)

2.2 Rear View



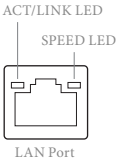
No.	Description
1	DC-IN
2	HDMI
3	RJ-45 (1G)*
4	2 x USB3.2 Gen2 Ports
5	DisplayPort
6	RJ-45 (2.5G)**

** There are two LEDs on the LAN port. Please refer to the table below for the LAN port LED indications.*



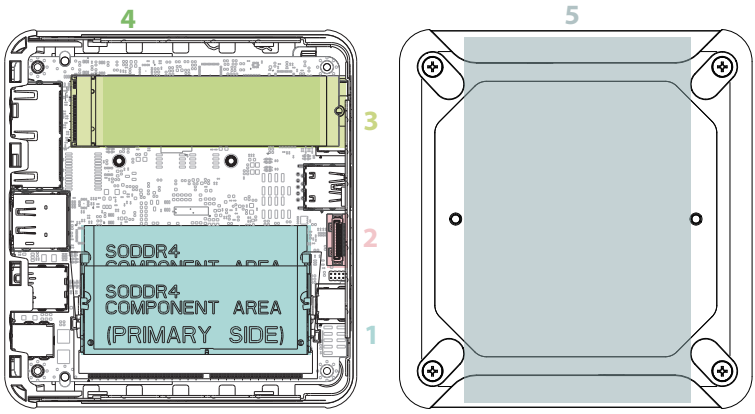
Activity / Link LED		Speed LED	
Status	Description	Status	Description
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps connection
On	Link	Green	1Gbps connection

** There are two LEDs on the LAN port. Please refer to the table below for the LAN port LED indications.*



Activity / Link LED		Speed LED	
Status	**Description**	**Status**	**Description**
Off	No Link	Off	10Mbps connection
Blinking	Data Activity	Orange	100Mbps/1Gbps connection
On	Link	Green	2.5Gbps connection

2.3 Inside View



No.	Description
1	SO-DIMM Slot
2	SATA 3.0 Connector
3	Mini PCIe Slot
4	M.2 Slot
5	Hard disk drive tray (compatible with 2.5" SATA HDD/SSD)

SO-DIMM memory, hard drive and mSATA SSD are not included with this system.

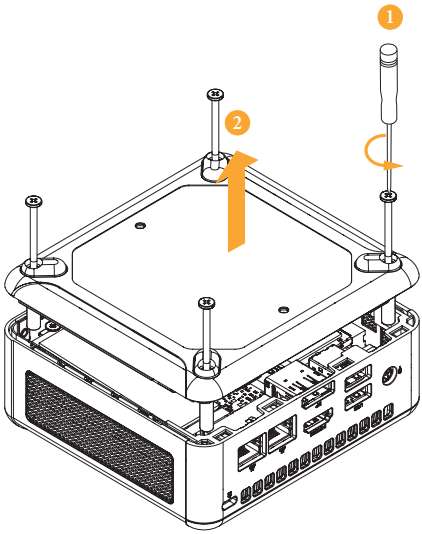
English

Chapter 3 Hardware Installation

This chapter helps you install or remove important components.

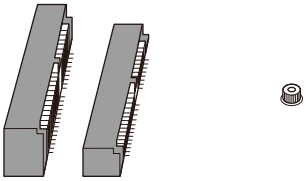
3.1 How to Remove the Bottom Case

1. Remove the four screws on the bottom case.
2. Then lift up and remove the bottom panel..

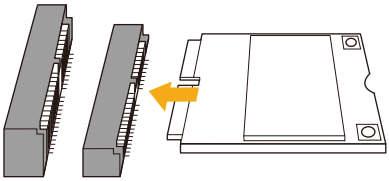


3.2 How to Install the WiFi Module

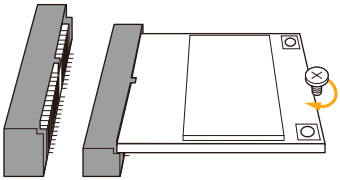
1. Locate the WiFi Module slot on the motherboard.



2. Carefully insert the WiFi Module into the slot.

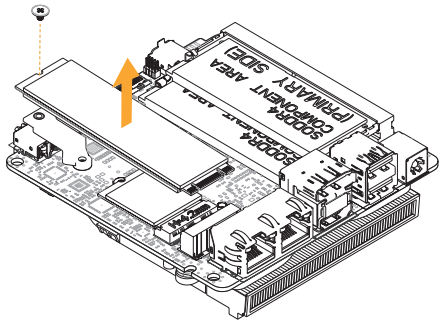


3. Tighten the screw to secure the WiFi Module to the motherboard.

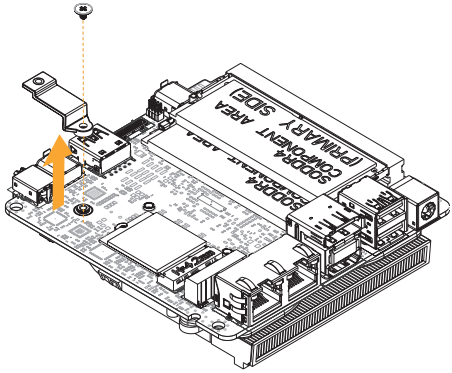


3.3 How to Remove the M.2 SSD (Type 2280) and the Bracket

1. Release the screw and carefully remove the M.2 SSD (Type 2280).

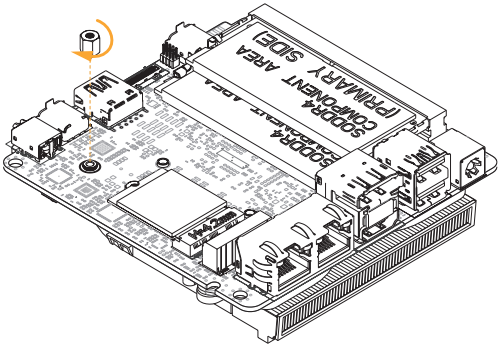


2. Release the screw and remove the bracket from the motherboard.

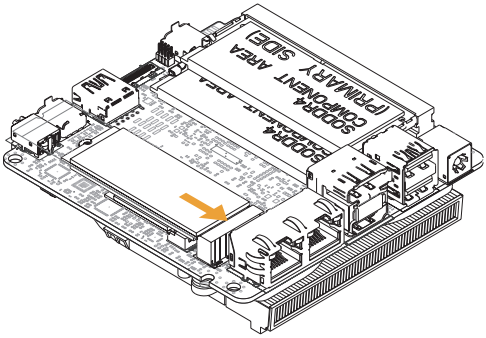


3.4 How to Install the M.2 SSD (Type 2260)

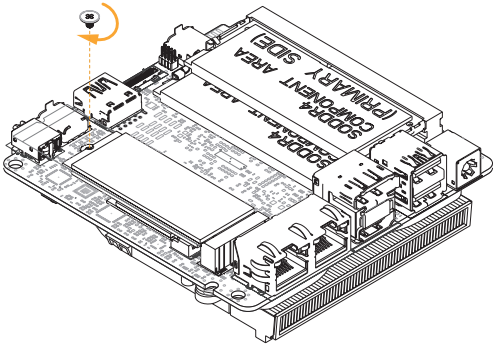
1. Locate the M.2 slot on the motherboard. Install the standoff.



2. Carefully insert the M.2 SSD into the slot.

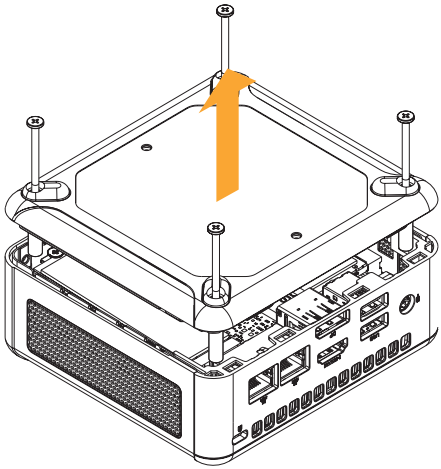


3. Tighten the screw to secure the M.2 SSD to the motherboard.

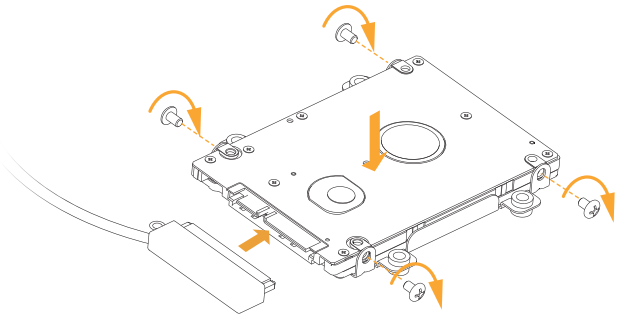


3.5 How to Install the 2.5-inch Hard Drive

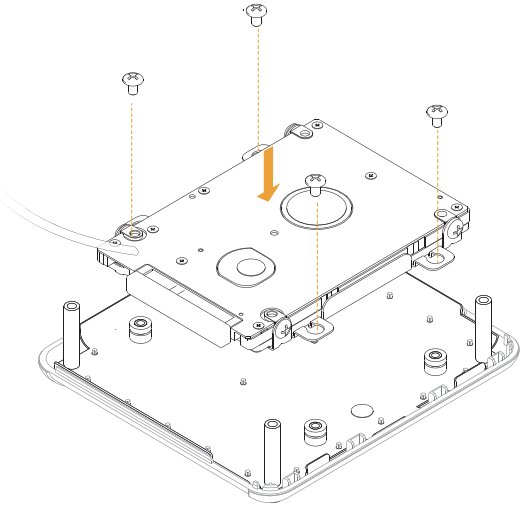
1. Remove the four screws on the bottom case. Then lift up and remove the bottom panel.



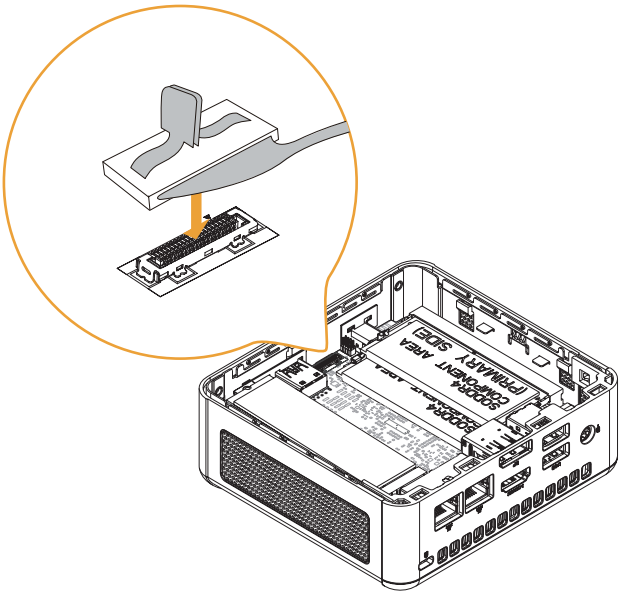
2. Attach the HDD to the hard drive mounting bracket and secure it using the four screws. Then connect the SATA Data and Power Cable to the HDD.



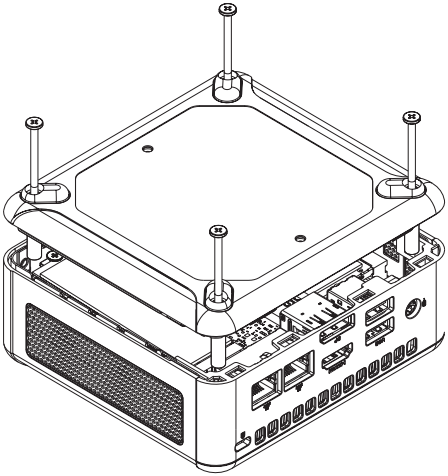
3. Attach the HDD assembly to the bottom panel and secure it using the four screws.



4. Connect the SATA Cable to the connector.



5. Then reinstall the bottom panel.



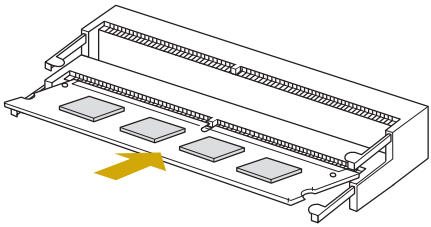
3.6 How to Install the Memory Modules

(DDR4)

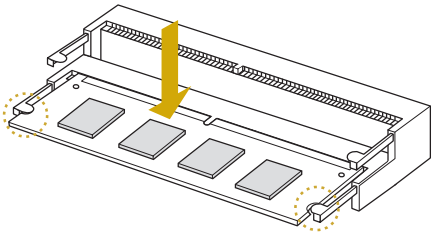
1. The NUC 1200 BOX Series requires DDR4 SO-DIMM.
2. For dual channel configuration, you always need to install identical (the same brand, speed, size and chip-type) DDR4 SO-DIMM pairs.

The SO-DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the DIMM if you force the DIMM into the slot at incorrect orientation.

1. Carefully insert the SO-DIMM memory modules into the slot at a 30-degree angle.

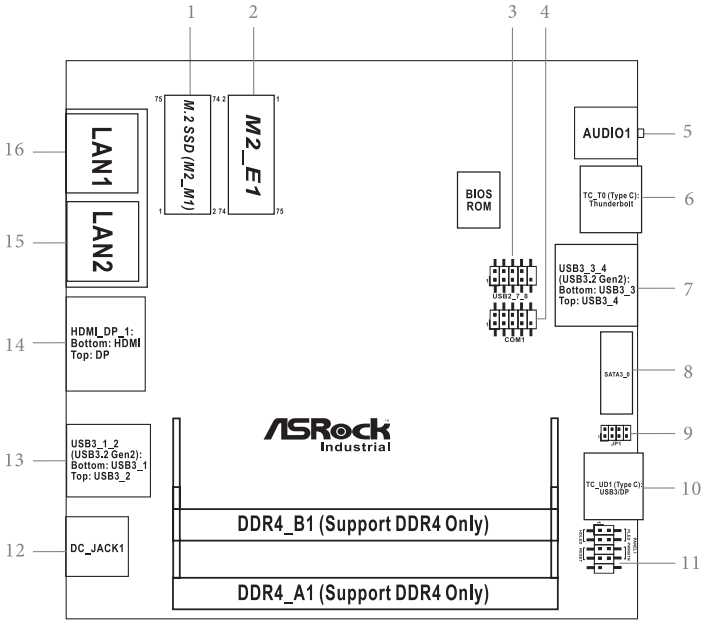


2. Push down until the modules snap into place.



Chapter 4 Motherboard

4.1 Motherboard Layout



1 : M.2 Key-M Socket (M2_M1)
2 : M.2 Key-E Socket (M2_E1)
3 : USB2.0 Connector (USB2_7_8)
4 : COM Port Header (RS-232/422/485)
5 : SATA3 Port (SATA3_0)
6 : JP1
7 : System Panel Header (PANEL1)

Back Side :
Power Button (PWR_BTN1)
Fan Connector (FAN1)
Battery Connector (BAT1)
ESPI Connector (ESPI)

4.2 Motherboard Specifications

Form Factor	Dimensions	NUC 4.09" x 4.02" (104 x 102mm)
Processor System	CPU	Intel® 12th Gen (Alder Lake-P) Core™ Processors NUC-1215UE (i3-1215UE) NUC-1245UE (i5-1245UE) NUC-7305 (Celeron-7305) NUC-1265UE (i7-1265UE) NUC-1260P (i7-1260P) NUC-1240P (i5-1240P) NUC-1220P (i3-1220P)
	Chipset	MCP
	BIOS	AMI SPI 256 Mbit
Memory	Technology	Dual Channel DDR4 3200 MHz
	Capacity	64GB (32 GB per DIMM)
	Socket	2 x 260-pin SO-DIMM
Graphics	Controller	Intel® Iris® Xe Graphics for i7/i5 CPU Intel® UHD Graphics for i3/Celeron CPU
	HDMI	HDMI 2.0b Max resolution up to 4096x2160@60Hz
	DisplayPort	DisplayPort 1.4a, DP++ Max resolution up to 4096X2160@60Hz
	Multi Display	Max 4 display (Included 2 outputs from Type-C)
Expansion Slot	M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVio for Wireless
Audio	Interface	Realtek ALC233, High Definition Audio
Ethernet	Controller/ Speed	Intel® I225LM with 10/100/1000/2500 Mbps
	Controller	2 x RJ-45
Front I/O	USB	2 x USB 3.2 Gen2 (Type-A) 2 x USB 3.2 Gen2 (Type-C, Supports DP1.4a display output) * USB4™ Compliance Test is pending for certification
	Audio	1 (headphone & microphone jack)

Rear I/O	HDMI	1 x HDMI 2.0b
	DisplayPort	1 x DP 1.4a
	Ethernet	2 x 2.5 Gigabit LAN
	USB	2 x USB 3.2 Gen2 (Type A)
	DC Jack	1
Internal Connector	USB	2 x USB 2.0 (1 x 2.00 pitch header)
	COM	1 x COM(RS-232/422/485)
	TPM	TPM 2.0 onboard IC
Storage	M.2	1 x M.2 (KEY M, 2242/2260/2280) with PCIe Gen4 x4 for SSD *M.2 Key M 2280 (Supported by bracket)
	SATA	1 x SATA3.0 (6.0 Gb/s)
Watchdog Timer	Output	From Super I/O to drag RESETCON#
	Interval	256 Segments, 0, 1, 2, ...255sec
Power Requirements	Input PWR	12V~19V DC-In Jack
	Power On	AT/ATX Supported
		AT: Directly PWR on as power input ready ATX: Press button to PWR on after power input ready
Environment	Operating Temp	0ºC ~ 60ºC
	Storage Temp	-40°C ~ 85°C
	Operating Humidity	5% ~ 90%
	Storage Humidity	5% ~ 90%

4.3 Onboard Headers and Connectors

Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard!

SATA3 Connector

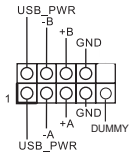
(SATA3_0: see p.18, No. 5)

This Serial ATA3 (SATA3) connector supports SATA data cables for internal storage devices. The current SATA3 interface allows up to 6.0 Gb/s data transfer rate.

USB 2.0 Connector

(9-pin USB2_7_8)

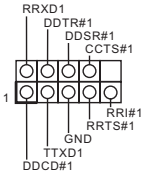
(see p.18 No. 3)



There is one USB 2.0 connector on this motherboard.

COM Port Header (RS232/422/485)

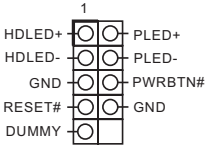
(9-pin COM1: see p.18, No. 4)



System Panel Header

(9-pin PANEL1)

(see p.18, No. 7)



This header accommodates several system front panel functions.

Connect the power switch, reset switch and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

PWRBTN (Power Switch):
Connect to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch.

English

RESET (Reset Switch):
Connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.

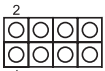
PLED (System Power LED):
Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S4 sleep state or powered off (S5).

HDLED (Hard Drive Activity LED):
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assign-ments are matched correctly.

JP1 Header

(8-pin JP1: see p.18, No. 6)



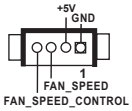
1-2: SIO AT Mode
(Default Open: SIO ATX Mode)
4-6: Clear CMOS
3-4: Auto Clear CMOS
5-7: DACC*

* Auto clear CMOS when system boot improperly.

Back Side:

Power Button Header
(PWR_BTN1)

Fan Connector
(FAN1)



Battery Connector
(BAT1)

ESPI Connector
(ESPI1)

4.4 Expansion Slots (M.2 Slots)

There are 2 M.2 slots on this motherboard.

M.2 for SSD: 1 x M.2 (KEY M, 2242/2260/2280) with PCIe Gen4 x4 for SSD.
* M.2 Key M 2280 (Supported by bracket)

M.2 for Wi-Fi: 1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless.

M.2 Key-M Socket (M2_M1)

Pin	Signal	Signal	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	PERn3	NC	6
7	PERp3	NC	8
9	GND		10
11	PETn3	+3.3V	12
13	PETp3	+3.3V	14
15	GND	+3.3V	16
17	PERn2	+3.3V	18
19	PERp2	NA	20
21	GND	NA	22
23	PETn2	NA	24
25	PETp2	NA	26
27	GND	NA	28
29	PERn1	NA	30
31	PERp1	NA	32
33	GND	NA	34
35	PETn1	NA	36
37	PETp1		38
39	GND	SMB_CLK	40
41	PERn0	SMB_DATA	42
43	PERp0	NA	44
45	GND	NA	46
47	PETn0	NA	48
49	PETp0	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	WAKE#	54
55	PEFCLKp	NA	56
57	GND	NA	58
67	NA	NA	68
69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	GND		

M.2 Key-E Socket (M2_E1)

Pin	Signal	Signal	Pin
1	GND	+3.3V	2
3	USB_D+	+3.3V	4
5	USB_D-	NA	6
7	GND	NA	8
9	CNV_WGR_D1-	CNV_RF_RESET	10
11	CNV_WGR_D1+	NA	12
13	GND	MODEM_CLKREQ	14
15	CNV_WGR_D0-	NA	16
17	CNV_WGR_D0+	GND	18
19	GND	NA	20
21	CNV_WGR_CLK-	CNV_BRI_RSP	22
23	CNV_WGR_CLK+		
33	GND	CNV_BGI_DT	32
35	PETp	CNV_RGI_RSP	34
37	PETn	CNV_BRI_DT	36
39	GND	NA	38
41	PERp	NA	40
43	PERn	NA	42
45	GND	NA	44
47	PEFCLKp	NA	46
49	PEFCLKn	NA	48
51	GND	SUSCLK	50
53	CLKREQ#	PERST0#	52
55	WAKE#	W_DISABLE1#	54
57	GND	W_DISABLE2#	56
59	CNV_WT_D1-	SMB_DATA	58
61	CNV_WT_D1+	SMB_CLK	60
63	GND	NA	62
65	CNV_WT_D0-		64
67	CNV_WT_D0+	NA	66
69	GND	NA	68
71	CNV_WT_CLK-	NA	70
73	CNV_WT_CLK+	+3.3V	72
75	GND	+3.3V	74

Chapter 5 UEFI Setup Utility

5.1 Introduction

This section explains how to use the UEFI SETUP UTILITY to configure your system. The UEFI chip on the motherboard stores the UEFI SETUP UTILITY. You may run the UEFI SETUP UTILITY when you start up the computer. Please press <F2> or <Del> during the Power-On-Self-Test (POST) to enter the UEFI SETUP UTILITY, otherwise, POST will continue with its test routines.

If you wish to enter the UEFI SETUP UTILITY after POST, restart the system by pressing <Ctl> + <Alt> + <Delete>, or by pressing the reset button on the system chassis. You may also restart by turning the system off and then back on.

Because the UEFI software is constantly being updated, the following UEFI setup screens and descriptions are for reference purpose only, and they may not exactly match what you see on your screen.

5.1.1 UEFI Menu Bar

The top of the screen has a menu bar with the following selections:

Main	To set up the system time/date information
Advanced	To set up the advanced UEFI features
H/W Monitor	To display current hardware status
Security	To set up the security features
Boot	To set up the default system device to locate and load the Operating System
Exit	To exit the current screen or the UEFI SETUP UTILITY

Use < ← > key or < → > key to choose among the selections on the menu bar, and then press <Enter> to get into the sub screen. You can also use the mouse to click your required item.

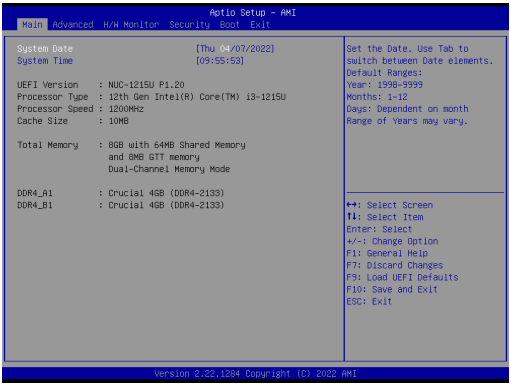
5.1.2 Navigation Keys

Please check the following table for the function description of each navigation key.

Navigation Key(s)	Function Description
← / →	Moves cursor left or right to select Screens
↑ / ↓	Moves cursor up or down to select items
+ / -	To change option for the selected items
<Enter>	To bring up the selected screen
<F1>	To display the General Help Screen
<F7>	Discard changes
<F9>	To load optimal default values for all the settings
<F10>	To save changes and exit the UEFI SETUP UTILITY
<F12>	Print screen
<ESC>	To jump to the Exit Screen or exit the current screen

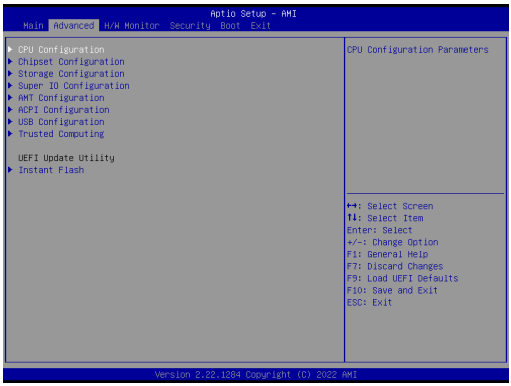
5.2 Main Screen

When you enter the UEFI SETUP UTILITY, the Main screen will appear and display the system overview.



5.3 Advanced Screen

In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, Storage Configuration, Super IO Configuration, AMT Configuration, ACPI Configuration, USB Configuration and Trusted Computing.

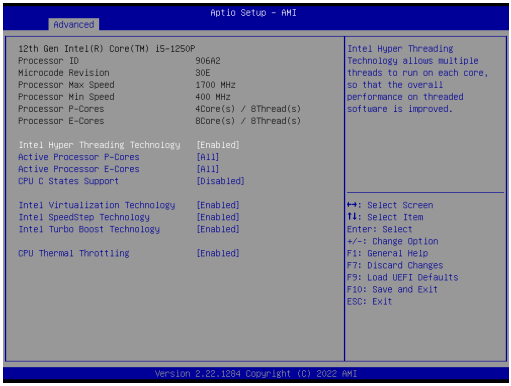


Setting wrong values in this section may cause the system to malfunction.

Instant Flash

Instant Flash is a UEFI flash utility embedded in Flash ROM. This convenient UEFI update tool allows you to update system UEFI without entering operating systems first like MS-DOS or Windows®. Just launch this tool and save the new UEFI file to your USB flash drive, floppy disk or hard drive, then you can update your UEFI only in a few clicks without preparing an additional floppy diskette or other complicated flash utility. Please be noted that the USB flash drive or hard drive must use FAT32/16/12 file system. If you execute Instant Flash utility, the utility will show the UEFI files and their respective information. Select the proper UEFI file to update your UEFI, and reboot your system after UEFI update process completes.

5.3.1 CPU Configuration



Intel Hyper Threading Technology

Intel Hyper Threading Technology allows multiple threads to run on each core, so that the overall performance on threaded software is improved.

Active Processor P-Cores

Select the number of cores to enable in each processor package.

Active Processor E-Cores

Select the number of E-Cores to enable in each processor package.

CPU C States Support

Enable CPU C States Support for power saving. It is recommended to keep C3, C6 and C7 all enabled for better power saving.

Intel Virtualization Technology

When this option is set to [Enabled], a VMM (Virtual Machine Architecture) can utilize the additional hardware capabilities provided by Vanderpool Technology. This option will be hidden if the installed CPU does not support Intel Virtualization Technology.

Intel SpeedStep Technology

Intel SpeedStep technology is Intel's new power saving technology. Processors can switch between multiple frequencies and voltage points to enable power saving. The default value is [Enabled]. Configuration options: [Enabled] and [Disabled]. If you install Windows® 10 64-bit / 8.1 64-bit / 7 32-bit / 7 64-bit and want to enable this function, please set this item to [Enabled]. This item will be hidden if the current CPU does not support Intel SpeedStep technology.

Please note that enabling this function may reduce CPU voltage and lead to system stability or compatibility issues with some power supplies. Please set this item to [Disabled] if above issues occur.

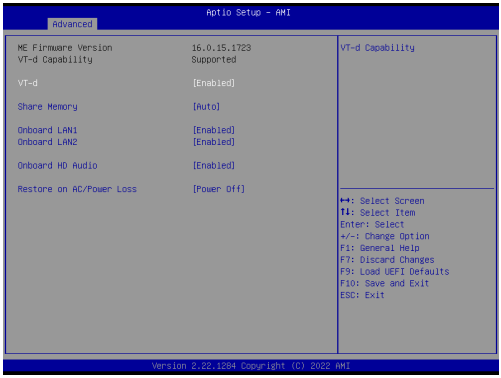
Intel Turbo Boost Technology

Use this item to enable or disable Intel Turbo Boost Mode Technology. Turbo Boost Mode allows processor cores to run faster than marked frequency in specific conditions. The default value is [Enabled].

CPU Thermal Throttling

You may select [Enabled] to enable CPU internal thermal control mechanism to keep the CPU from overheating.

5.3.2 Chipset Configuration



VT-d

Use this to enable or disable Intel® VT-d technology (Intel® Virtualization Technology for Directed I/O). The default value of this feature is [Disabled].

Share Memory

Configure the size of memory that is allocated to the integrated graphics processor when the system boots up.

Onboard LAN1

This allows you to enable or disable the Onboard LAN1 feature.

Onboard LAN2

This allows you to enable or disable the Onboard LAN2 feature.

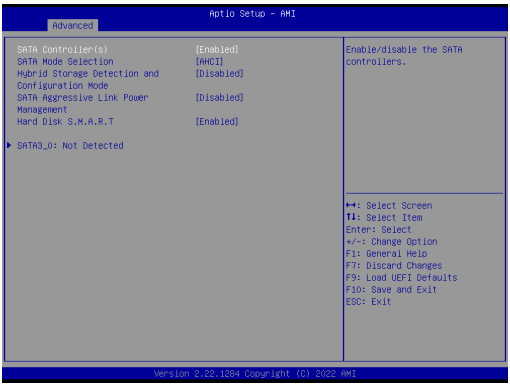
Onboard HD Audio

Enable/disable onboard HD audio. Set to Auto to enable onboard HD audio and automatically disable it when a sound card is installed.

Restore on AC/Power Loss

Select the power state after a power failure. If [Power Off] is selected, the power will remain off when the power recovers. If [Power On] is selected, the system will start to boot up when the power recovers.

5.3.3 Storage Configuration



SATA Controller(s)

Use this item to enable or disable the SATA Controller feature.

SATA Mode Selection

Use this to select SATA mode. The default value is [AHCI Mode].

AHCI (Advanced Host Controller Interface) supports NCQ and other new features that will improve SATA disk performance but IDE mode does not have these advantages.

Hybrid Storage Detection and Configuration Mode

Use this item to enable or disable Hybrid Storage Detection and Configuration Mode.

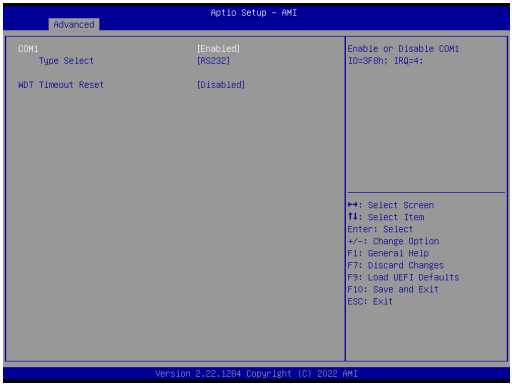
SATA Aggressive Link Power Management

Use this item to configure SATA Aggressive Link Power Management.

Hard Disk S.M.A.R.T.

Use this item to enable or disable the S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) feature. Configuration options: [Disabled] and [Enabled].

5.3.4 Super IO Configuration



COM1 Configuration

Use this to set parameters of COM1.

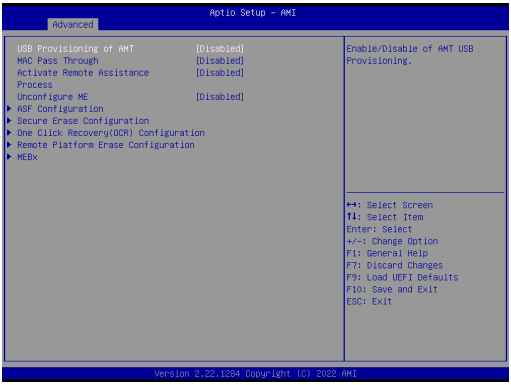
Type Select

Use this to select COM1 port type: [RS232], [RS422] or [RS485].

WDT Timeout Reset

Use this to set the Watch Dog Timer.

5.3.5 AMT Configuration



USB Provisioning of AMT

Use this to enable or disable AMT USB Provisioning. The default is [Disabled].

MAC Pass Through

Use this to enable or disable MAC Pass Through. The default is [Disabled].

Activate Remote Assistance Process

Trigger CIRA boot. The default is [Disabled].

Un-Configure ME

Un-Configure ME without password. The default is [Disabled].

PET Progress

User can enable or disable PET Events progress to receive PET events or not. The default is [Enabled].

WatchDog

Use this to enable or disable AMT WatchDog Timer. The default is [Disabled].

ASF Sensors Table

Use this to enable or disable ASF Sensor Table. The default is [Disabled].

Secure Erase mode

Change Secure Erase module behavior: Simulated: Performs SE flow without erasing SSD. Real: Erase SSD.

Force Secure Erase

Use this to enable or disable Force Secure Erase on next boot. The default is [Disabled].

OCR Http Boot

Use this to enable or disable One Click Recovery Https Boot. The default is [Enabled].

OCR PBA Boot

Use this to enable or disable One Click Recovery PBA Boot. The default is [Enabled].

OCR Windows Recovery Boot

Use this to enable or disable One Click Recovery Windows Recovery Boot. The default is [Enabled].

OCR Disable Secure Boot

Use this to allows CSME to request Secure Boot to be disabled for One Click Recovery. The default is [Enabled].

Enable Remote Platform Erase Feature

Use this to enable or disable Remote Platform Erase Feature. The default is [Enabled].

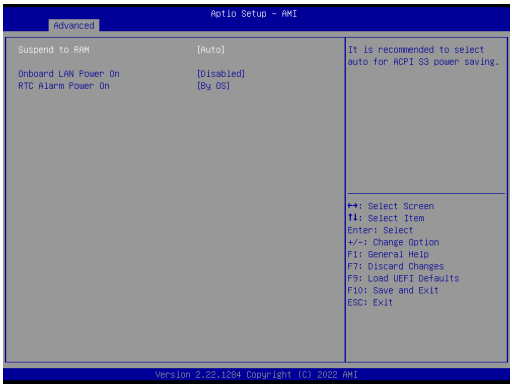
SSD Erase mode

Change RPE SSD Erase Action behavior: Simulated: Performs RPE SSD Erase flow without erasing SSD Real: Erase SSD.

Intel(R) ME Password

MEBx Login

5.3.6 ACPI Configuration



Suspend to RAM

Use this item to select whether to auto-detect or disable the Suspend-to-RAM feature. Select [Auto] will enable this feature if the OS supports it.

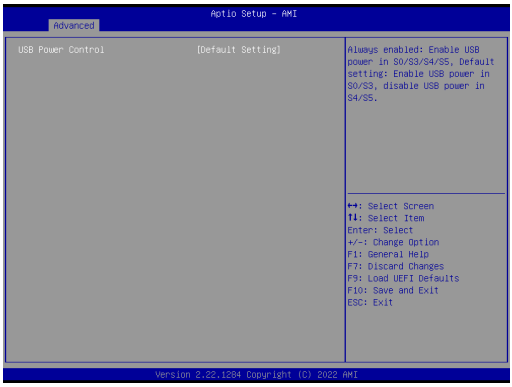
Onboard LAN Power On

Use this item to enable or disable onboard LAN to turn on the system from the power-soft-off mode.

RTC Alarm Power On

Use this item to enable or disable RTC (Real Time Clock) to power on the system.

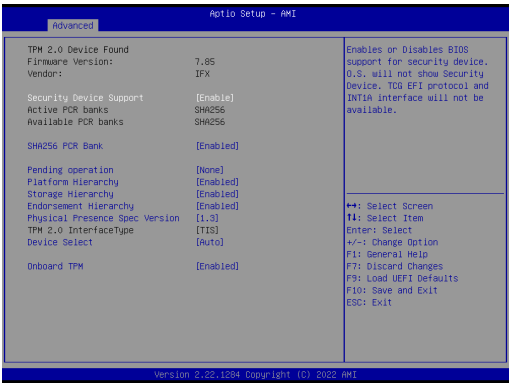
5.3.7 USB Configuration



USB Power Control

Use this item to control USB power.

5.3.8 Trusted Computing

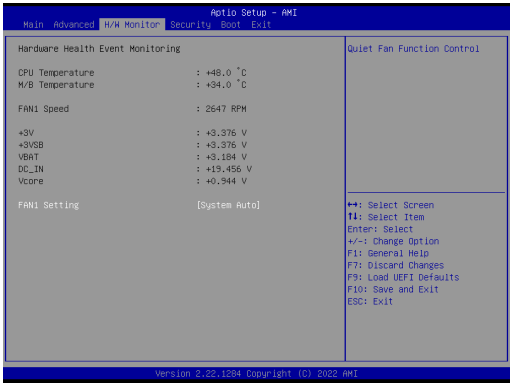


Security Device Support

Enable or disable BIOS support for security device.

5.4 Hardware Health Event Monitoring Screen

In this section, it allows you to monitor the status of the hardware on your system, including the parameters of the CPU temperature, motherboard temperature, CPU fan speed, chassis fan speed, and the critical voltage.



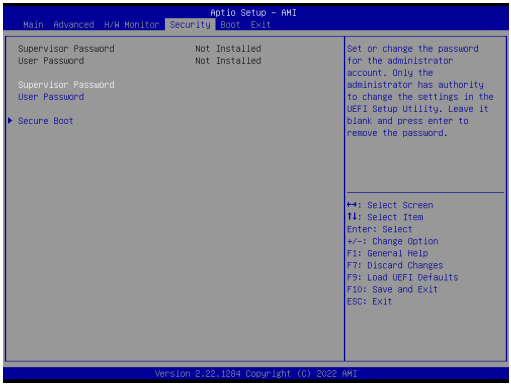
FAN1 Setting

This allows you to set FAN1's speed. Configuration options: [System Auto], [Full On], [Automatic Mode]. The default value is [System Auto].

English

5.5 Security Screen

In this section, you may set, change or clear the supervisor/user password for the system.



Supervisor Password

Set or change the password for the administrator account. Only the administrator has authority to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

User Password

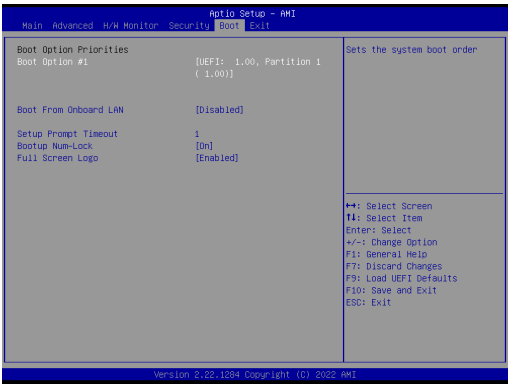
Set or change the password for the user account. Users are unable to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

Secure Boot

Enable to support Windows 8.1 / 8 Secure Boot.

5.6 Boot Screen

In this section, it will display the available devices on your system for you to configure the boot settings and the boot priority.



Boot From Onboard LAN

Use this item to enable or disable the Boot From Onboard LAN feature.

Setup Prompt Timeout

This shows the number of seconds to wait for setup activation key. 65535(0XFFFF) means indefinite waiting.

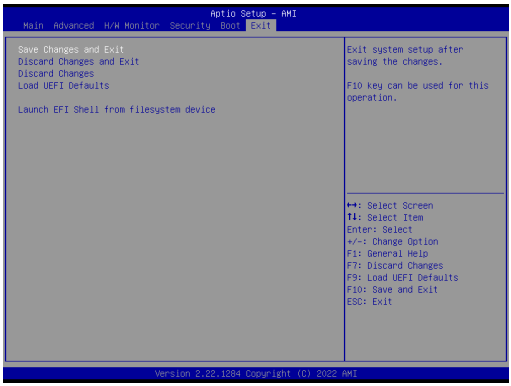
Bootup Num-Lock

If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up.

Full Screen Logo

Use this item to enable or disable OEM Logo. The default value is [Enabled].

5.7 Exit Screen



Save Changes and Exit

When you select this option, it will pop-out the following message, “Save configuration changes and exit setup?” Select [OK] to save the changes and exit the UEFI SETUP UTILITY.

Discard Changes and Exit

When you select this option, it will pop-out the following message, “Discard changes and exit setup?” Select [OK] to exit the UEFI SETUP UTILITY without saving any changes.

Discard Changes

When you select this option, it will pop-out the following message, “Discard changes?” Select [OK] to discard all changes.

Load UEFI Defaults

Load UEFI default values for all the setup questions. F9 key can be used for this operation.

Launch EFI Shell from filesystem device

Attempts to Launch EFI Shell application (Shell64.efi) from one of the available filesystem devices.

Chapter 6 Software Support

6.1 Install Operating System

This motherboard supports various Microsoft® Windows® operating systems: 11 64-bit / 10 64-bit. Because motherboard settings and hardware options vary, use the setup procedures in this chapter for general reference only. Refer your OS documentation for more information.