



4X4-R1000M

4X4-R1000V

4X4-V1000M

4X4-R1000E

## User Manual

Version 1.0

Published June 2019

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Version 1.0

Published June 2019

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# Chapter 1: Introduction

Thank you for purchasing ASRockind **4X4-R1000M / 4X4-R1000V / 4X4-V1000M / 4X4-R1000E** motherboard, a reliable motherboard produced under ASRockind's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRockind's commitment to quality and endurance.

In this manual, chapter 1 and 2 contain introduction of the motherboard and step-by-step guide to the hardware installation. Chapter 3 and 4 contain the configuration guide to BIOS setup and information of the Support CD.



Because the motherboard specifications and the BIOS software might be updated, the content of this manual will be subject to change without notice. In case any modifications of this manual occur, the updated version will be available on ASRockind website without further notice. You may find the latest CPU support lists on ASRockind website as well.

ASRockind website <https://www.asrockind.com/>

If you require technical support related to this motherboard, please visit our website for specific information about the model you are using.

<https://www.asrockind.com/support/index.asp>

## 1.1 Package Contents

ASRockind **4X4-R1000M / 4X4-R1000V / 4X4-V1000M / 4X4-R1000E** Motherboard  
(NUC 4.09" x 4.02" (104 x 102mm))

ASRockind **4X4-R1000M / 4X4-R1000V / 4X4-V1000M / 4X4-R1000E** Driver CD

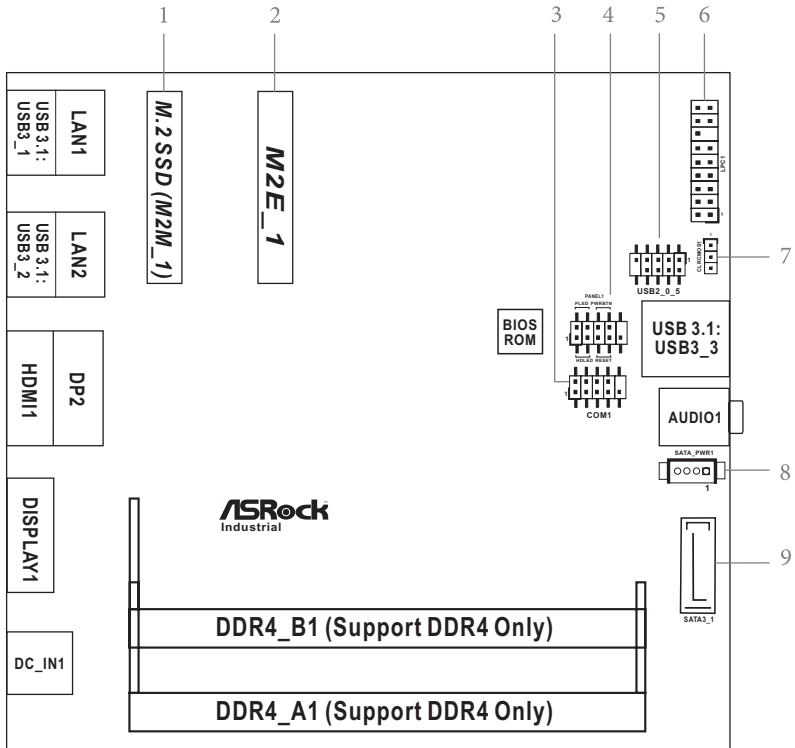
ASRockind **4X4-R1000M / 4X4-R1000V / 4X4-V1000M / 4X4-R1000E** Jumper setting instruction

## 1.2 Specifications

|                         |               |  |
|-------------------------|---------------|--|
| <b>Form Factor</b>      | Dimensions    | NUC 4.09" x 4.02" (104 x 102mm)  |
| <b>Processor System</b> | CPU           | AMD Ryzen™ Embedded R-Series (R1606G, DC, 2.6GHz, 12-25W) (4X4-R1000M)<br>(R1505G, DC, 2.4GHz, 12-25W) (4X4-R1000V)<br>AMD Ryzen™ Embedded V-Series (V1605B, QC, 2GHz, 12-25W) (4X4-V1000M)<br>AMD Ryzen™ Embedded R-Series (R1305G, DC, 2.5GHz, 8-10W) (4X4-R1000E) |
|                         | Chipset       | SoC  |
| <b>Expansion Slot</b>   | M.2           | 1 x Key M (2242/2260/2280 by BRACKET) with PCIe x4 and SATA3 for SSD<br>1 x Key E (2230) with PCIe x1 and USB 2.0 for Wireless   |
| <b>Memory</b>           | Technology    | Dual Channel DDR4 2400MHz  |
|                         | Max.          | 32GB   |
|                         | Socket        | 2 x SO-DIMM  |
|                         | ECC Support   | Yes  |
| <b>Graphics</b>         | Controller    | AMD Radeon™ Vega 3 Graphics (4X4-R1000M / 4X4-R1000V)<br>AMD Radeon™ Vega 8 Graphics (4X4-V1000M)  |
|                         | HDMI          | Supports HDMI 2.0, max resolution up to 4096x2160@ 60Hz  |
|                         | DisplayPort   | DisplayPort 1.2a with max resolution up to 3840 x 2160@ 60Hz   |
|                         | Multi Display | Triple Display   |
| <b>Ethernet</b>         | Ethernet      | 10/100/1000 Mbps   |
|                         | Controller    | 2 x Realtek RTL8111G   |
| <b>Front I/O</b>        | Front USB     | 1 x USB 3.1  |
|                         | Front Audio   | 1 (Mic-in, Line-out)   |
| <b>Rear I/O</b>         | HDMI          | 1  |
|                         | DisplayPort   | 2  |
|                         | Ethernet      | 2  |
|                         | USB           | 2 x USB 3.1  |

|                           |                 |  |
|---------------------------|-----------------|--|
| <b>Internal Connector</b> | USB             | 2 x USB 2.0  |
|                           | Serial          | 1 x COM (RS-232/422/485)   |
|                           | SATA            | 1 x SATA3 (6.0Gb/s)  |
|                           | SATA PWR Output | 1  |
|                           | TPM             | 1 x Header   |
| <b>Watchdog Timer</b>     | Output          | From Super I/O to drag RESETCON#   |
|                           | Interval        | 256 segments, 0,1,2...255sec   |
| <b>Power Requirements</b> | Input PWR       | 12V only (DC Jack)   |
|                           | Power On        | AT/ATX Supported<br>AT*: Directly PWR on as Power input ready<br>*Adjusted by BIOS option [Restore on AC/POWER Loss] (see 3.3.2 Chipset Configuration on P.21) |
|                           |                 | Environment ATX: Press Button to PWR on after Power input ready  |
| <b>Environment</b>        | Operating Temp  | 0°C – 60°C   |
|                           | Storage Temp    | -40°C – 85°C   |

### 1.3 Motherboard Layout



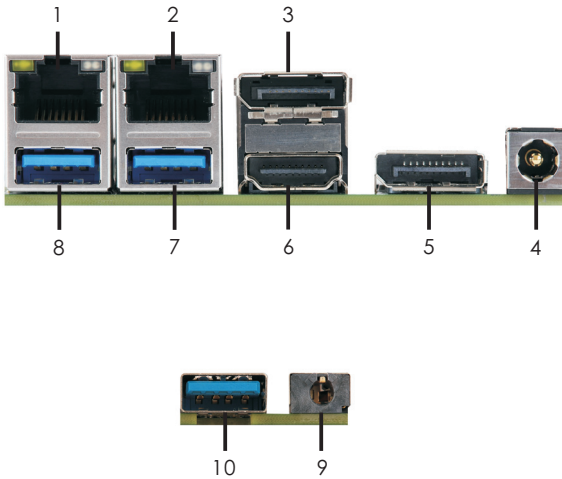
- 1 : M.2 Key-M Socket (M2M\_1)
- 2 : M.2 Key-E Socket (M2E\_1)
- 3 : COM Port Header (RS232/422/485)
- 4 : System Panel Header (PANEL1)
- 5 : USB2.0 Connector (USB2\_0\_5)
- 6 : LPC Debug Header (LPC1)
- 7 : Clear CMOS Headers (CLRCMOS1)
- 8 : SATA Power Output Connector (SATA\_PWR1)
- 9 : SATA3 Connector (SATA3\_1)

Back Side :

- Power Button (PWR\_BTN3)
- Fan Connector (FAN1)



## 1.4 I/O Panel



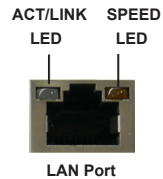
- |                          |                          |
|--------------------------|--------------------------|
| 1 LAN RJ-45 Port (LAN1)* | 6 HDMI Port (HDMI1)      |
| 2 LAN RJ-45 Port (LAN2)* | 7 USB 3.1 Port (USB3_2)  |
| 3 DisplayPort (DP2)      | 8 USB 3.1 Port (USB3_1)  |
| 4 DC-In Jack (DC_IN1)    | 9 Audio Jack (AUDIO1)    |
| 5 DisplayPort (DISPLAY1) | 10 USB 3.1 Port (USB3_3) |

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

### LAN Port LED Indications

| Activity/Link LED |               |
|-------------------|---------------|
| Status            | Description   |
| Off               | No Link       |
| Blinking          | Data Activity |
| On                | Link          |

| SPEED LED |                    |
|-----------|--------------------|
| Status    | Description        |
| Off       | 10Mbps connection  |
| Orange    | 100Mbps connection |
| Green     | 1Gbps connection   |



---

## Chapter 2: Installation

Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it.



Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so may cause physical injuries to you and damages to motherboard components.

### 2.1 Screw Holes

Place screws into the holes to secure the motherboard to the chassis.



Do not over-tighten the screws! Doing so may damage the motherboard.

### 2.2 Pre-installation Precautions

Take note of the following precautions before you install motherboard components or change any motherboard settings.

1. Unplug the power cord from the wall socket before touching any component.
2. To avoid damaging the motherboard components due to static electricity, NEVER place your motherboard directly on the carpet or the like. Also remember to use a grounded wrist strap or touch a safety grounded object before you handle components.
3. Hold components by the edges and do not touch the ICs.
4. Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that comes with the component.



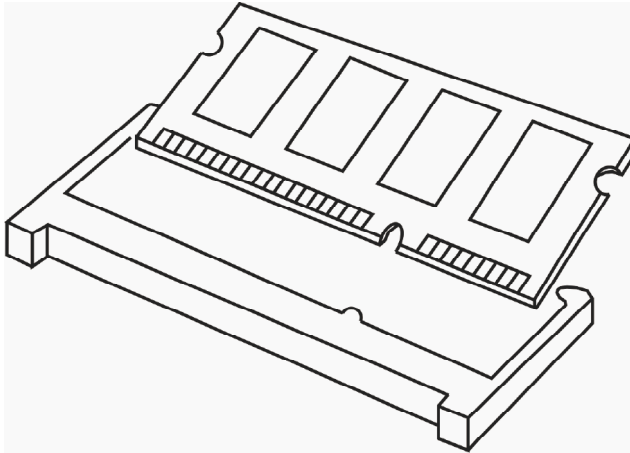
Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

---

## 2.3 Installation of Memory Modules (SO-DIMM)

**4X4-R1000M / 4X4-R1000V / 4X4-V1000M / 4X4-R1000E** provides two 204-pin DDR4 (Double Data Rate 4) SO-DIMM slots.

Step 1. Align a SO-DIMM on the slot such that the notch on the SO-DIMM matches the break on the slot.



1. The SO-DIMM only fits in one correct orientation. It will cause permanent damage to the motherboard and the SO-DIMM if you force the SO-DIMM into the slot at incorrect orientation.
2. Please do not intermix different voltage SO-DIMMs on this motherboard.

Step 2. Firmly insert the SO-DIMM into the slot until the retaining clips at both ends fully snap back in place and the SO-DIMM is properly seated.

## 2.4 Expansion Slots (M.2 Slots)

There are 2 M.2 slots on this motherboard.

**M.2 for SSD:** Key M (M2M\_1) (2242/2260/2280 by BRACKET) supports PCIe x4 and SATA3 for SSD.

**M.2 for Wi-Fi:** Key E (M2\_2) (2230) supports PCIe x1 and USB 2.0 for Wireless.

### M.2 Key-M Socket (M2M\_1)

| Pin | Signal        | Signal   | Pin |
|-----|---------------|----------|-----|
| 1   | GND           | +3.3V    | 2   |
| 3   | GND           | +3.3V    | 4   |
| 5   | PERn3         | USB_D+   | 6   |
| 7   | PERp3         | USB_D-   | 8   |
| 9   | GND           | SATA_LED | 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         | DEVSLP   | 38  |
| 39  | GND           | SMB_CLK  | 40  |
| 41  | PERn0/SATA-B+ | SMB_DATA | 42  |
| 43  | PERp0/SATA-B- | NA       | 44  |
| 45  | GND           | NA       | 46  |
| 47  | PETn0/SATA-A- | NA       | 48  |
| 49  | PETp0/SATA-A+ | 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 (M2E\_1)

| 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#      | PERSTOH        | 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-   | CLKIN_XTAL_LCP | 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  |

\* Pin6 and Pin8 are defined as USB2.0 signal to support Key-M to Key-B extension card.

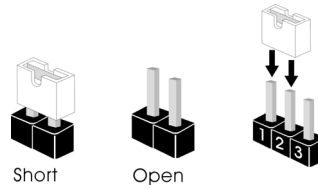


If you want to install M Key type 2242 M.2 module on M2M\_1 socket, please remove the standoff installed on the motherboard first, and replace it with the 6.5mm standoff in our accessory package.

---

## 2.5 Jumpers Setup

The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is “Short”. If no jumper cap is placed on pins, the jumper is “Open”. The illustration shows a 3-pin jumper whose pin1 and pin2 are “Short” when jumper cap is placed on these 2 pins.



---

### Clear CMOS Jumper

(3-pin CLRMOS1)  
(see p.8, No. 7)



Default



Clear CMOS

**Note:** CLRMOS1 allows you to clear the data in CMOS. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action. Please be noted that the password, date, time, user default profile and MAC address will be cleared only if the CMOS battery is removed.

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## 2.6 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!

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### SATA3 Connector

(SATA3\_1: see p.8, No. 9)



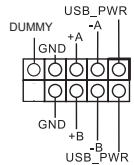
This Serial ATA3 (SATA3) connector supports SATA data cables for internal storage devices. The current SATA3 interface allows up to 6.0 Gb/s data transfer rate.

---

### USB 2.0 Connector

(9-pin USB2\_0\_5)

(see p.8 No. 5)



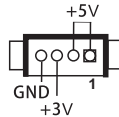
There is one USB 2.0 connector on this motherboard.

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### SATA Power Output Connector

(SATA\_PWR1)

(see p.8, No. 8)



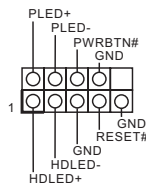
Please connect a SATA power cable to this connector.

---

### System Panel Header

(9-pin PANEL1)

(see p.8 No. 4)



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.

**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 S3/S4 sleep state or powered off (S5).

**HDLED (Hard Drive Activity LED):**

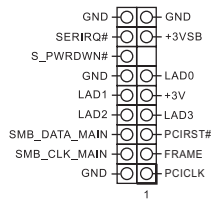
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

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 assignments are matched correctly.

**LPC Debug Header**

(13-pin LPC1)

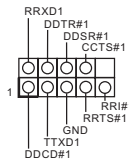
(see p.8, No. 6)



This connector supports a Trusted Platform Module (TPM) system, which can securely store keys, digital certificates, passwords, and data. A TPM system also helps enhance network security, protects digital identities, and ensures platform integrity.

**COM Port Header (RS232/422/485)**

(9-pin COM1: see p.8, No. 3)



\* This motherboard supports RS232/422/485 on COM1 port. Please refer to below table for the pin definition. In addition, COM1 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 23 for details.

**COM1 Port Pin Definition**

| PIN | RS232                    | RS422 | RS485 |
|-----|--------------------------|-------|-------|
| 1   | DCD, Data Carrier Detect | TX-   | RTX-  |
| 2   | RXD, Receive Data        | TX+   | RTX+  |
| 3   | TXD, Transmit Data       | RX+   | N/A   |
| 4   | DTR, Data Terminal Ready | RX-   | N/A   |
| 5   | GND                      | GND   | GND   |
| 6   | DSR, Data Set Ready      | N/A   | N/A   |
| 7   | RTS, Request To Send     | N/A   | N/A   |
| 8   | CTS, Clear To Send       | N/A   | N/A   |
| 9   | N/A                      | N/A   | N/A   |

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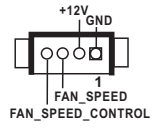
**Back Side:**

Power Button Header  
(PWR\_BTN3)



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Fan Connector  
(FAN1)





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## Chapter 3: UEFI SETUP UTILITY

### 3.1 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.

#### 3.1.1 UEFI Menu Bar

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

|                    |   |
|--------------------|---|
| <b>Main</b>        | To set up the system time/date information                                  |
| <b>Advanced</b>    | To set up the advanced UEFI features  |
| <b>H/W Monitor</b> | To display current hardware status  |
| <b>Security</b>    | To set up the security features   |
| <b>Boot</b>        | To set up the default system device to locate and load the Operating System |
| <b>Exit</b>        | 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.

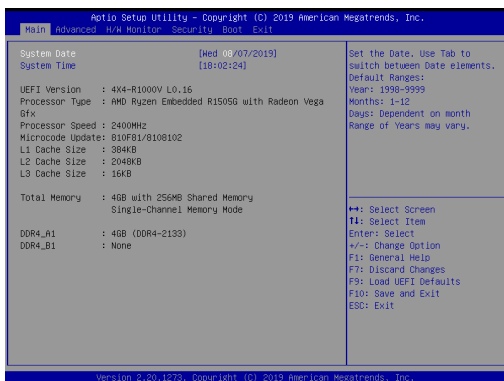
## 3.1.2 Navigation Keys

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 |

## 3.2 Main Screen

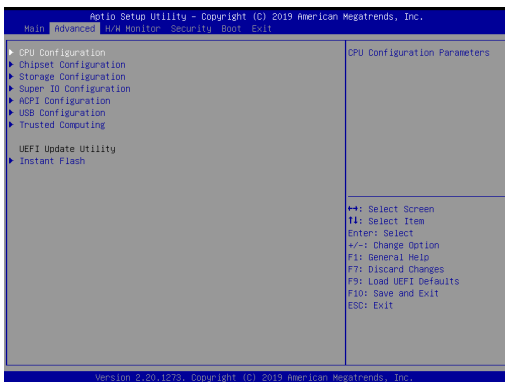
When you enter the UEFI SETUP UTILITY, the Main screen will appear and display the system overview.



---

### 3.3 Advanced Screen

In this section, you may set the configurations for the following items: CPU Configuration, Chipset Configuration, Storage Configuration, Super IO 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.

---

### 3.3.1 CPU Configuration



#### Cool 'n' Quiet

Use this item to enable or disable AMD's Cool 'n' Quiet™ technology. The default value is [Enabled]. Configuration options: [Enabled] and [Disabled]. If you install Windows® OS and want to enable this function, please set this item to [Enabled]. Please note that enabling this function may reduce CPU voltage and memory frequency, and lead to system stability or compatibility issue with some memory modules or power supplies. Please set this item to [Disable] if above issue occurs.

#### SVM Mode

When this is set to [Enabled], a VMM (Virtual Machine Architecture) can utilize the additional hardware capabilities provided by AMD-V. The default value is [Enabled]. Configuration options: [Enabled] and [Disabled].

#### Core Performance Boost

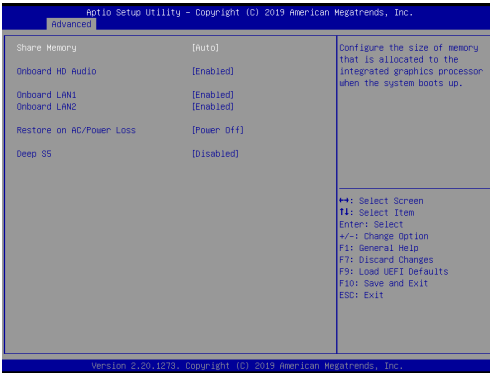
The default value is [Auto].

#### AMD fTPM Switch

Use this to enable or disable AMD CPU fTPM.

---

## 3.3.2 Chipset Configuration



### Share Memory

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

### Onboard HD Audio

Select [Enabled] or [Disabled] for the onboard HD Audio feature.

### Onboard LAN 1

This allows you to enable or disable the Onboard LAN 1.

### Onboard LAN 2

This allows you to enable or disable the Onboard LAN 2.

### Restore on AC/Power Loss

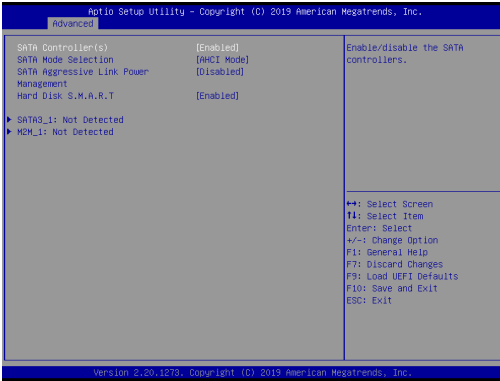
Select the power state after a power failure. If [Power Off] is selected, the power will remain off when the power recovers. If [Power On] is selected, the system will start to boot up when the power recovers.

### Deep S5

[Auto] will disable the deep S5 configuration if RTC/LAN/USB device power on settings are enabled. The default value is [Disabled].

---

### 3.3.3 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.

#### SATA Aggressive Link Power Management

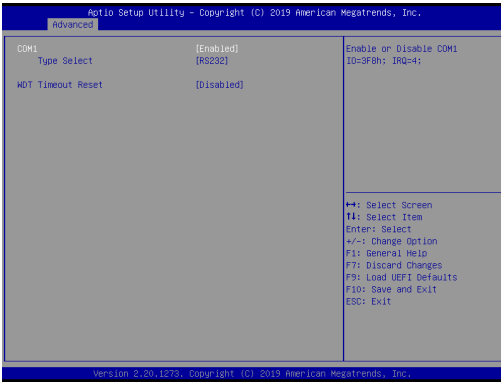
Use this item to configure SATA Aggressive Link Power Management.

#### 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].

---

### 3.3.4 Super IO Configuration



#### COM1 Configuration

Use this to set parameters of COM1.

#### Type Select

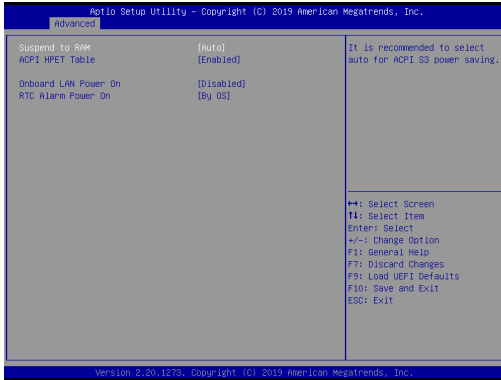
Use this to select COM3 port type: [RS232], [RS422] or [RS485].

#### WDT Timeout Reset

Use this to set the Watch Dog Timer.

---

### 3.3.5 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.

#### **ACPI HPET Table**

Enable the High Precision Event Timer for better performance.

#### **Onboard LAN Power On**

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

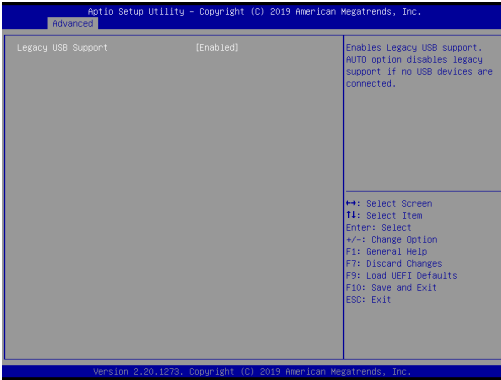
#### **RTC Alarm Power On**

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



---

### 3.3.6 USB Configuration



#### Legacy USB Support

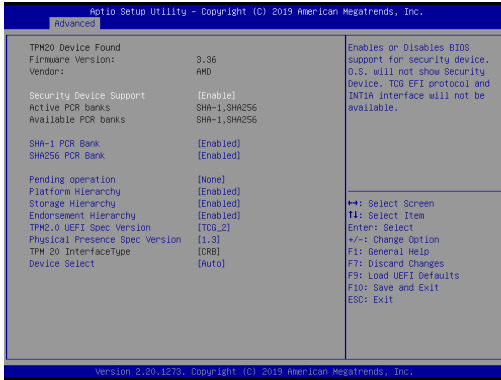
Use this option to select legacy support for USB devices. There are two configuration options: [Enabled] and [UEFI Setup Only]. The default value is [Enabled]. Please refer to below descriptions for the details of these two options:

[Enabled] - Enables support for legacy USB.

[UEFI Setup Only] - USB devices are allowed to use only under UEFI setup and Windows / Linux OS.

---

### 3.3.7 Trusted Computing



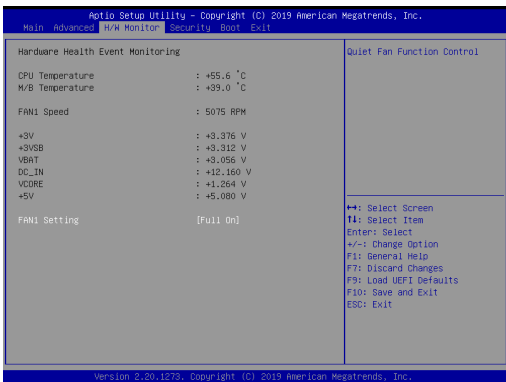
#### Security Device Support

Enable or disable BIOS support for security device.

---

### 3.4 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.



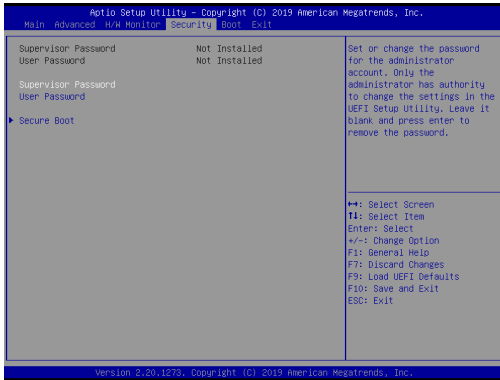
#### Fan 1 Setting

This allows you to set fan 1's speed. Configuration options: [Full On] and [Automatic Mode]. The default value is [Automatic Mode].

---

## 3.5 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.

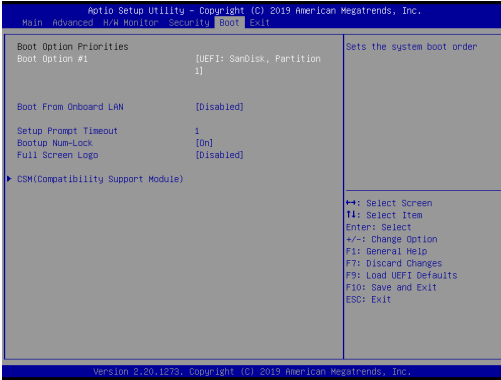
### Secure Boot

Enable to support Windows 8.1 / 8 Secure Boot.

---

## 3.6 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

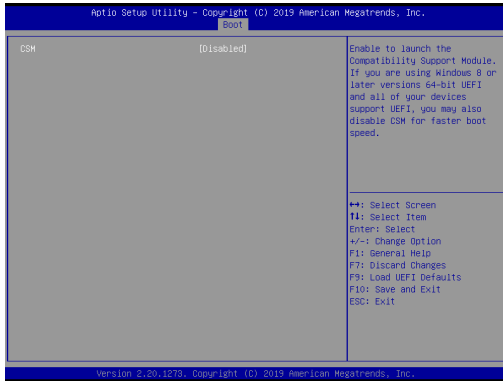
If this item is set to [On], it will automatically activate the Numeric Lock function after boot-up.

### Full Screen Logo

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

---

## CSM (Compatibility Support Module)



### CSM

Enable to launch the Compatibility Support Module. Please do not disable unless you're running a WHCK test. If you are using Windows 8.1 64-bit and all of your devices support UEFI, you may also disable CSM for faster boot speed.

### Launch PXE OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

### Launch Storage OpROM Policy

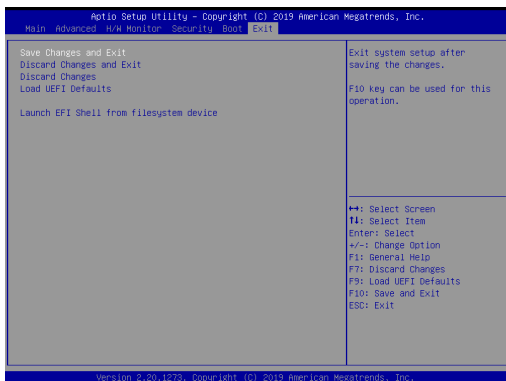
Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

### Launch Video OpROM Policy

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

---

## 3.7 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 4: Software Support**

### **4.1 Install Operating System**

This motherboard supports various Microsoft® Windows® operating systems: 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.

### **4.2 Support CD Information**

The Support CD that came with the motherboard contains necessary drivers and useful utilities that enhance the motherboard's features.

#### **4.2.1 Running The Support CD**

To begin using the support CD, insert the CD into your CD-ROM drive. The CD automatically displays the Main Menu if "AUTORUN" is enabled in your computer. If the Main Menu did not appear automatically, locate and double click on the file "ASRSETUP.EXE" from the BIN folder in the Support CD to display the menus.

#### **4.2.2 Drivers Menu**

The Drivers Menu shows the available device's drivers if the system detects installed devices. Please install the necessary drivers to activate the devices.

#### **4.2.3 Utilities Menu**

The Utilities Menu shows the application software that the motherboard supports. Click on a specific item then follow the installation wizard to install it.

#### **4.2.4 Contact Information**

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