



UTX-115

User Manual

Version 1.0

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- (2) this device must accept any interference received, including interference that may cause undesired operation.

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“Perchlorate Material-special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate”

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Chapter 1: Introduction

Thank you for purchasing ASRockInd **UTX-115** 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 VGA cards and CPU support lists on ASRockInd website as well. ASRockInd website <http://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.
www.asrockind.com/support/index.asp

1.1 Package Contents

ASRockInd **UTX-115** Motherboard (111.76 x 116.84 mm)

ASRockInd **UTX-115** Driver CD

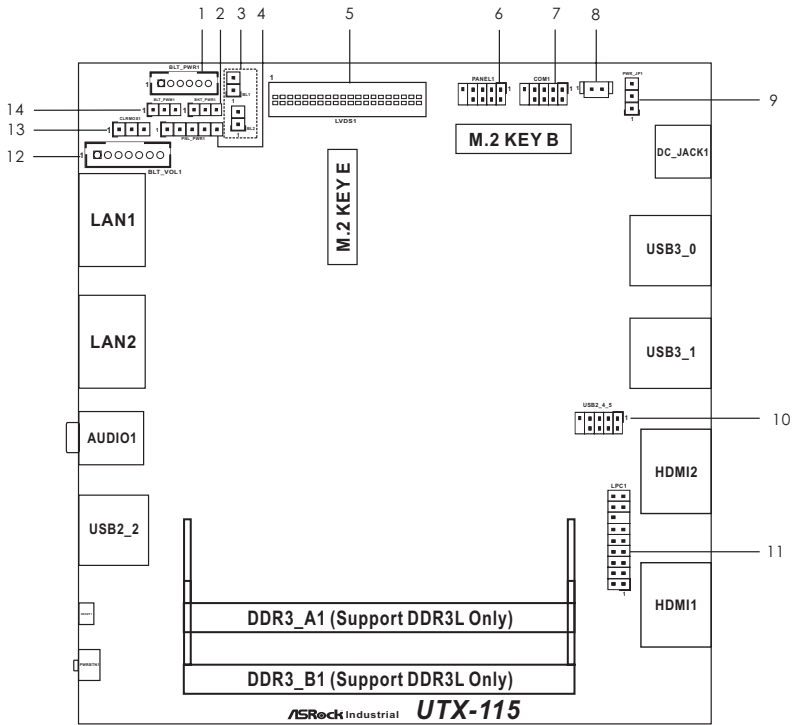
ASRockInd **UTX-115** Jumper setting instruction

1.2 Specifications

Form Factor	Dimensions	111.76 x 116.84 mm (10 layer)
Processor System	CPU	Intel® Apollo Lake SoC Processor - UTX-115D (N4200, QC, 1.10GHz, 6W) - UTX-115J (J3455, QC, 1.50GHz, 10W) - UTX-115L (N3350, DC, 1.10GHz, 6W)
	Chipset	SoC
Expansion Slot	M.2	1 x M.2 (KEY E, 2230) with PCIe x1 and USB2.0 for Wireless 1 x M.2 (KEY B, 3042/3052) with USB 2.0+ SATA/PClex2 + SIM for 4G
	SIM	1 x Socket connected to M.2 Key B
Memory	Technology	Dual Channel DDR3L 1867MHz
	Max.	8GB
	Socket	2 x SO-DIMM
Graphics	Controller	Intel® HD Graphics
	VGA	N/A
	DVI	N/A
	LVDS	Dual Channel 24-bit, max resolution up to 1920 x 1200@60Hz
	HDMI	HDMI 1.4b: Up to 3840 x 2160@30 Hz
	DisplayPort	N/A
	Multi Display	Triple Display
Ethernet	eDP	N/A
	Ethernet	10/100/1000 Mbps
Rear I/O	Controller	2 x Realtek RTL8111G
	VGA	N/A
	HDMI	2
	DisplayPort	N/A
	Ethernet	2
	USB	2 x USB3.1, 1 x USB2.0
	Audio	1 x Audio combo jack
	Serial	N/A
	PS/2	N/A
eDP	N/A	

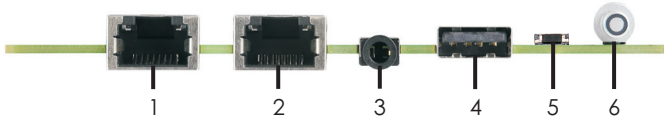
Internal Connector	LVDS/ Inverter	1
	Serial	1 x COM (RS-232/422/485)
	Parallel	N/A
	LPC	1 x LPC Header
	eMMC	32G/64G
Watchdog Timer	Output	From Super I/O to drag RESETCON#
	Interval	256 segments, 0,1,2...255sec
Power Requirements	Input PWR	+12V DC-In
	Power On	AT/ATX Supported AT: Directly PWR on as power input ready ATX: Press button to PWR on after power input ready
Environment	Operating Temp	0°C – 60°C
	Storage Temp	-40°C – 85°C

1.3 Motherboard Layout

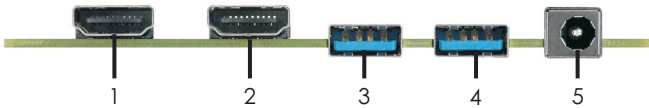
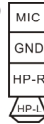


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- 1 : Inverter Power Control Wafer (BLT_PWR1)
 - 2 : Backlight Power Select (LCD_BLT_VCC) (BKT_PWR1)
 - 3 : BL1, BL2
 - 4 : Panel Power Select (LCD_VCC) (PNL_PWR1)
 - 5 : LVDS Panel Connector
 - 6 : System Panel Header
 - 7 : COM Port Heder
 - 8 : Battery Connector (BAT1)
 - 9 : ATX/AT Mode Select (PWR_JP1)
 - 10 : USB2.0 Connector (USB2_4_5)
 - 11 : LPC Header (LPC1)
 - 12 : Backlight & Amp Volume Control (BLT_VOL1)
 - 13 : Clear CMOS Header (CLRMOS1)
 - 14 : Backlight Control Level (BLT_PWM1)

1.4 I/O Panel



- | | | | |
|---|----------------------------------|---|-----------------------|
| 1 | LAN RJ-45 Port (LAN1) | 4 | USB 2.0 Port (USB2_2) |
| 2 | LAN RJ-45 Port (LAN2) | 5 | Reset Button |
| 3 | 3.5mm Audio Jack (CTIA Standard) | 6 | Power Button |



- | | | | |
|---|-----------------------|---|--------------------------|
| 1 | HDMI Port (HDMI1) | 4 | USB 3.1 Port (USB3_0) |
| 2 | HDMI Port (HDMI2) | 5 | DC Jack Port (+12V Only) |
| 3 | USB 3.1 Port (USB3_1) | | |

Chapter 2: Installation

This is a 111.76 x 116.84 mm form factor motherboard. 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.

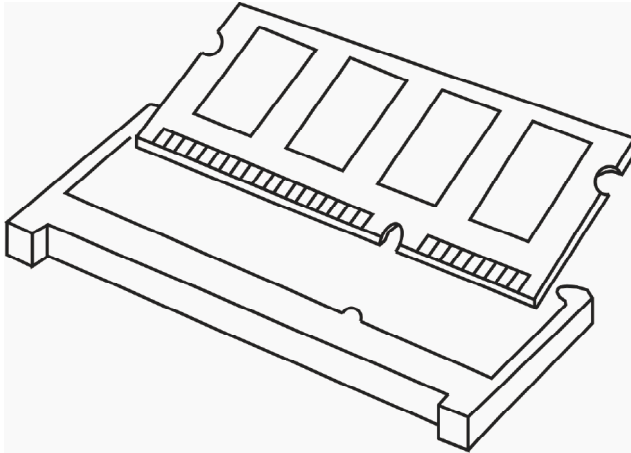


Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

2.3 Installation of Memory Modules (SO-DIMM)

UTX-115 provides two 204-pin DDR3 (Double Data Rate 3) SO-DIMM slots, which supports dual channel DDR3L SDRAM only.

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



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.

- 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 and SIM Sockets)

There are 2 M.2 sockets and 1 SIM socket on this motherboard.

SIM Socket:

1 x SIM socket connected to M.2 Key B.

M.2 Sockets:

1 x M.2 (KEY E, 2230) socket supports PCIe x1 and USB2.0 for Wireless.

1 x M.2 (KEY B, 3042/3052) socket supports USB 2.0+ SATA/PCIex2 + SIM for 4G.

M.2 Socket Pin Definition:

M.2 Key-E Socket

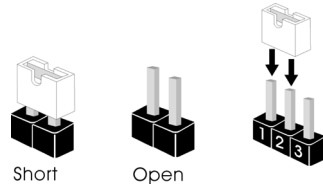
Pin#	Signal#	Signal#	Pin#
1#	GND#	+3.3V#	2#
3#	USB_D+#	+3.3V#	4#
5#	USB_D-#	NA#	6#
7#	GND#	NA#	8#
9#	NA#	NA#	10#
11#	NA#	NA#	12#
13#	NA#	NA#	14#
15#	NA#	NA#	16#
17#	NA#	GND#	18#
19#	NA#	NA#	20#
21#	NA#	NA#	22#
23#	NA#	NA#	
3#			
33#	GND#	NA#	32#
35#	PETp#	NA#	34#
37#	PETn#	NA#	36#
39#	GND#	NA#	38#
41#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

M.2 Key-B Socket

Pin	Signal	Signal	Pin
1	NA	+3.3V	2
3	GND	+3.3V	4
5	GND	Full Card Power off	6
7	USB_D+	W_DISABLE1#	8
9	USB_D-	WWAN_LED#	10
11	GND		
2#			
21	GND	NA	20
23	NA	NA	22
25	NA	NA	24
27	GND	W_DISABLE2#	26
29	PERn1	NA	28
31	PERP1	UIM_RESET	30
33	GND	UIM_CLK	32
35	PETn1	UIM_DATA	34
37	PETp1	UIM_PWR	36
39	GND	NA	38
41	PERn0/SATA-B+	NA	40
43	PERp0/SATA-B-	NA	42
45	GND	NA	44
47	PETn0/SATA-A-	NA	46
49	PETp0/SATA-A+	NA	48
51	GND	PERST#	50
53	PEFCLKn	CLKREQ#	52
55	PEFCLKp	WAKE#	54
57	GND	NA	56
59	NA	NA	58
61	NA	NA	60
63	NA	NA	62
65	NA	NA	64
67	NA	NA	66
69	PEDET	NA	68
71	GND	+3.3V	70
73	GND	+3.3V	72
75	NA	+3.3V	74

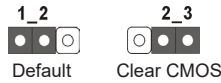
2.5 Jumpers Setup

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

(CLRCMOS1)
(see p.8, No. 13)



Note: CLRCMOS1 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 CLRCMOS1 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.

ATX/AT Mode Select

(3-pin PWR_JP1)
(see p.8 No. 9)



1-2: AT Mode
2-3: ATX Mode

Panel Power Select (LCD_VCC)

(5-pin PNL_PWR1)
(see p.8 No. 4)



Use this to set up the VDD power of the LVDS connector.

1-2: +3V
2-3: +5V
3-4: +5V
4-5: +12V

Backlight Power Select

(LCD_BLT_VCC)
(3-pin BKT_PWR1)
(see p.8 No. 2)



Use this to set up the backlight power of the LVDS connector.

1-2: +5V
2-3: +12V

Backlight Control Level

(3-pin BLT_PWM1)

(see p.8 No. 14)



1-2: From eDP PWM to CON_LBKLT_CTL

2-3: From LVDS PWM to CON_LBKLT_CTL

BL1, BL2

(2-pin BL1)

(see p.8 No. 3)



Open : Protect LCD_BLT_VCC

Short : No Protect LCD_BLT_VCC

(2-pin BL2)

(see p.8 No. 3)

Open : Protect R_LVDD

Short : No Protect R_LVDD

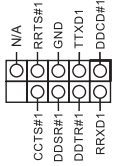
2.6 Onboard Headers and Connectors



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!

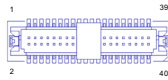
COM Port Header

(9-pin COM1)
(see p.8 No. 7)



LVDS Connector

(40-pin LVDS1)
(see p.8 No. 5)



PIN	Signal Name	PIN	Signal Name
2	LCD_VCC	1	LCD_VCC
4	N/A	3	+3V
6	LVDS_A_DATA0#	5	N/A
8	GND1	7	LVDS_A_DATA0
10	LVDS_A_DATA1	9	LVDS_A_DATA1#
12	LVDS_A_DATA2#	11	GND6
14	GND2	13	LVDS_A_DATA2
16	LVDS_A_DATA3	15	LVDS_A_DATA3#
18	LVDS_A_CLK#	17	GND7
20	GND3	19	LVDS_A_CLK
22	LVDS_B_DATA0	21	LVDS_B_DATA0#
24	LVDS_B_DATA1#	23	GND8
26	GND4	25	LVDS_B_DATA1
28	LVDS_B_DATA2	27	LVDS_B_DATA2#
30	LVDS_B_DATA3#	29	DPLVDD_EN
32	GND5	31	LVDS_B_DATA3
34	LVDS_B_CLK	33	LVDS_B_CLK#
36	CON_LBKLT_EN	35	GND9
38	LCD_BLT_VCC	37	CON_LBKLT_CTL
40	LCD_BLT_VCC	39	LCD_BLT_VCC

Backlight & Amp Volume Control

(7-pin BLT_VOL1)
(see p.8 No. 12)



PIN	Signal Name
1	N/A
2	N/A
3	PWRDN
4	GPIO_BLT_UP
5	GPIO_BLT_DW
6	GND
7	GND

Inverter Power Control Wafer

(6-pin BLT_PWR1)
(see p.8 No. 1)

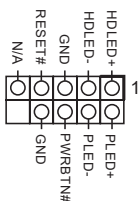


PIN	Signal Name
1	GND
2	GND
3	CON_LBKLT_CTL
4	CON_LBKLT_EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC

System Panel Header

(9-pin PANEL1)

(see p.8, No. 6)



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/S3 sleep state. The LED is off when the system is in S4 sleep state or powered off (S5).

HDLED (Hard Drive Activity LED):

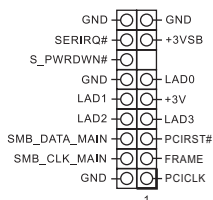
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

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 assignments are matched correctly.

LPC Header

(19-pin LPC1)

(see p.8, No. 11)

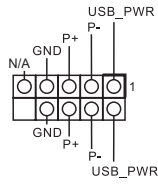


This connector supports a Trusted Platform Module (LPC) system, which can securely store keys, digital certificates, passwords, and data. A LPC system also helps enhance network security, protects digital identities, and ensures platform integrity.

USB 2.0 Header

(9-pin USB2_4_5)

(see p.8, No. 10)



There is one header on this motherboard.

Battery Connector

(2-pin BAT1)

(see p.8, No. 8)



Connect the battery to this connector.

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 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:

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.

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
<Tab>	Switch to next function
<PGUP>	Go to the previous page
<PGDN>	Go to the next page
<HOME>	Go to the top of the screen
<END>	Go to the bottom of the screen

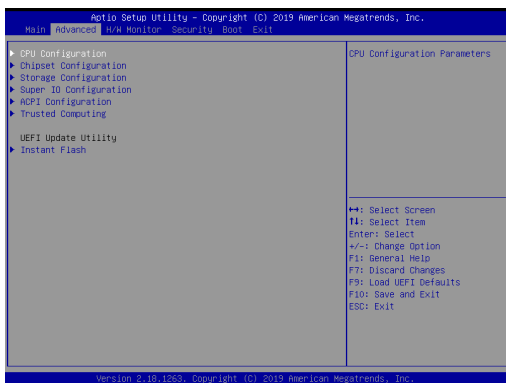
3.2 Main Screen

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 and Trusted Computing.

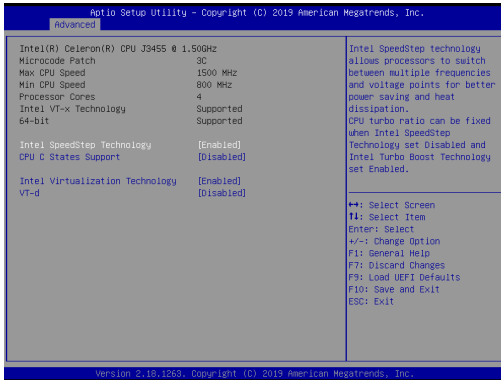


Setting wrong values in this section may cause the system to malfunction.

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



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® OS 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.

CPU C States Support

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

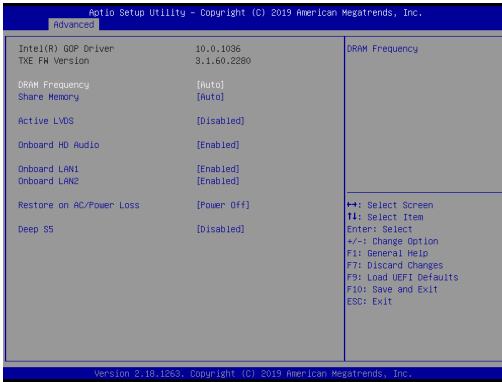
Intel Virtualization Technology

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.

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].

3.3.2 Chipset Configuration



DRAM Frequency

If [Auto] is selected, the motherboard will detect the memory module(s) inserted and assign the appropriate frequency automatically.

Share Memory

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

Active LVDS

Use this to enable or disable the LVDS. The default value is [Disabled].

Panel Type Selection

This option appears only when you enable Active LVDS.

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 feature.

Onboard LAN 2

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

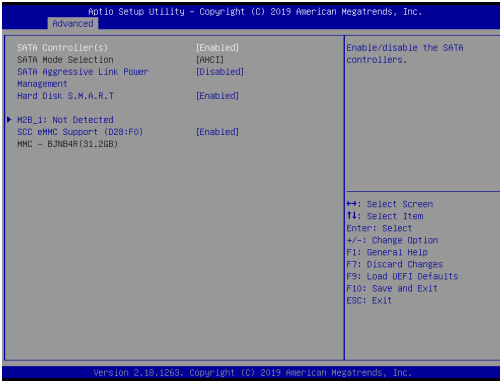
Restore on AC/Power Loss

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

This allows you to enable or disable Deep S5.

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. Configuration options: [IDE Mode] and [AHCI 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



Serial Port 1 Configuration

Serial Port

Use this to set parameters of COM1.

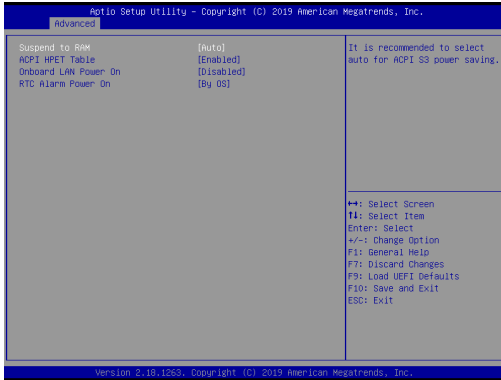
Type Select

Use this to select COM1 port type.

WDT Timeout Reset

This allows users to enable/disable the Watch Dog Timer timeout to reset system. The default value is [Disabled].

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

Use this item to enable or disable ACPI HPET Table. The default value is [Enabled]. Please set this option to [Enabled] if you plan to use this motherboard to submit Windows® certification.

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 Trusted Computing

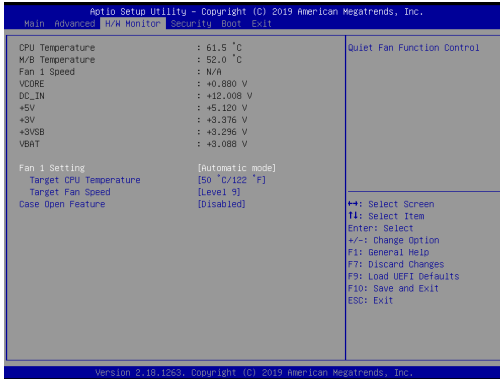


Security Device Support

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.



FAN1 Setting

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

Case Open Feature

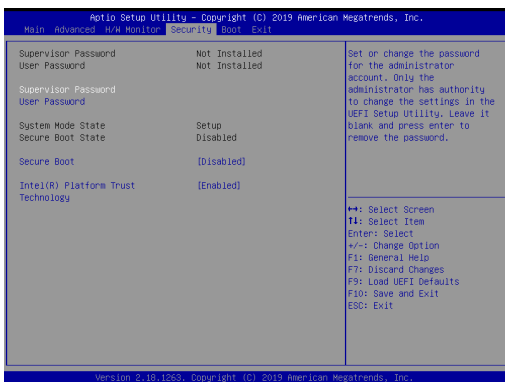
This allows you to enable or disable case open detection feature. The default is value [Disabled].

Clear Status

This option appears only when the case open has been detected. Use this option to keep or clear the record of previous chassis intrusion status.

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 Secure Boot.

Intel(R) Platform Trust Technology

Enable/disable Intel PTT in ME. Disable this option to use discrete TPM Module.

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.

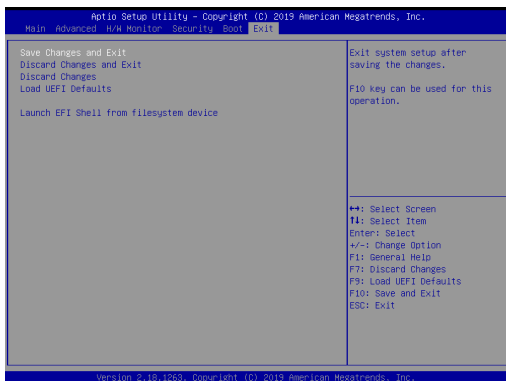
Launch PXE OpROM Policy

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.

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 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 to 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.