/ISRock

UTX-110 UTX-111

User Manual

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

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Contents

1	intr	oduction	5
	1.1	Package Contents	5
	1.2	Specifications	6
	1.3	Motherboard Layout	8
	1.4	I/O Panel	10
2	Inst	allation	11
	2.1	Screw Holes	11
	2.2	Pre-installation Precautions	11
	2.3	Installation of Memory Modules (SO-DIMM)	12
	2.4	Expansion Slots (mini-PCle and mini-PCle/mini-SATA	
		Slots)	13
	2.5	Jumpers Setup	14
	2.6	Onboard Headers and Connectors	16
3	UEF	FI SETUP UTILITY	19
	3.1	Introduction	19
		3.1.1 UEFI Menu Bar	19
		3.1.2 Navigation Keys	20
	3.2	Main Screen	20
	3.3	Advanced Screen	21
		3.3.1 CPU Configuration	22
		3.3.2 Chipset Configuration	23
		3.3.3 Storage Configuration	24
		3.3.4 Super IO Configuration	25
		3.3.5 ACPI Configuration	
		3.3.6 USB Configuration	
	3.4	Hardware Health Event Monitoring Screen	
	3.5	Security Screen	
	3.6	Boot Screen	
	3.7	Exit Screen	32

4	Sof	tware	Support	33
	4.1	Instal	I Operating System	33
	4.2	Supp	ort CD Information	33
		4.2.1	Running Support CD	33
		4.2.2	Drivers Menu	33
		4.2.3	Utilities Menu	33
		424	Contact Information	33

Chapter 1: Introduction

Thank you for purchasing ASRock *UTX-110* / *UTX-111* motherboard, a reliable motherboard produced under ASRock's consistently stringent quality control. It delivers excellent performance with robust design conforming to ASRock's commitment to quality and endurance.

In this manual, chapter 1 and 2 contain introduction of the motherboard and stepby-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 ASRock website without further notice. You may find the latest VGA cards and CPU support lists on ASRock website as well. ASRock website http://www.asrock.com

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

www.asrock.com/support/index.asp

1.1 Package Contents

ASRock UTX-110 / UTX-111 Motherboard (111.76 x 116.84 mm (10 layer))

ASRock UTX-110 / UTX-111 Driver CD

ASRock UTX-110 / UTX-111 Jumper setting instruction

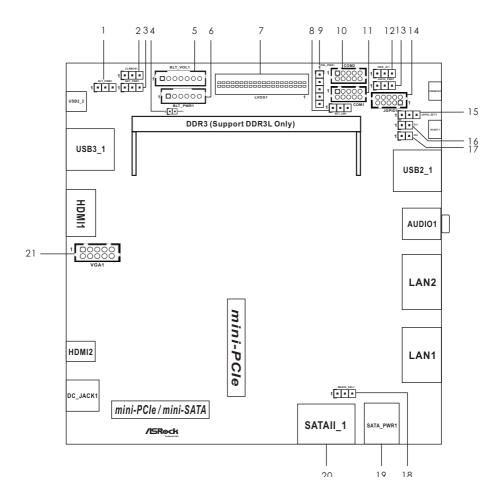
1.2 Specifications

Form Factor	Dimensions	111.76 x 116.84 mm (10 layer)		
	OD! I	Intel [®] new Atom [™] Baytrail-I		
		Supports Hyper-Threading Technology		
	CPU (UTX-110)	Default E3826 Dual Core Processor		
	(017-110)	Optional E3845/3815 Quad/Single Core		
		Processor		
		Intel [®] new Atom [™] Baytrail-I		
	CDII	Supports Hyper-Threading Technology		
Processor	(UTX-111)	Default J1900 Quad Core Processor		
System	(01% 111)	Optional N2930/2807 Quad/Dual Core		
		Processor		
	Core Number	(By CPU, Max 4)		
	Max Speed	(By CPU)		
	L2 Cache	(By CPU)		
	Chipset	(By CPU)		
	BIOS	UEFI		
	PCI	0		
	Mini-PCle	1 x Full Size co-lay with mSATA		
Expansion	mSATA	1 (Full Size)		
Slot	PCle	0		
	SIM	1		
	CFast Card Socket	0		
	Technology	Single Channel DDR3L 1066/1333 MHz SDRAM		
Memory	Max.	4/8GB		
	Socket	1 x SO-DIMM		
-	Controller	Intel® Gen7 Intel® Graphics DX 11, OGL3.2		
	VRAM	Shared Memory		
	VGA	Supports max. resolution 1920 x 1200		
	LVDS	Dual channel 24-bit, max resolution 1920 x 1200 @60Hz		
Graphics	HDMI	Supports HDMI 1.4a, max resolution 1920 x		
	DVI	1200 N/A		
	DisplayPort	N/A		
		Yes (Dual Display)		
	Initial Display	Tes (Duai Display)		

6

	Ethernet	10/100/1000 Mbps
Ethernet	Controller	2 x Intel [®] 210
	Connector	2 x RJ-45
	Max Data	
SATA	Transfer	SATA2 (3.0Gb/s)
	Rate	, ,
	VGA	0
	DVI	0
	HDMI	2 (1 x HDMI, 1 x Micro HDMI)
	DisplayPort	0
	Ethernet	2
Rear I/O		1 x USB 3.0 Compliant, 1 x USB2.0
Rear I/O	USB	Compliant 1 x micro USB 2.0 SMT type
		connector
	Audio	1 (Line out/Mic out)
	Serial	0
	eSATA	0
	PS/2	0
	USB	0
	LVDS/	1/1
	Inverter	17 1
	VGA	1 (Pin heater 2.0 mm Pitch)
	Serial	(RS-232/422/485 x 1. RS232 x 1) Pin
		heater 2.0 mm pitch COM1 Pin9 (+5V &
		+12V)
Internal	SATA	1 x SATA2 (3.0Gb/s)
Connector	mPCle	2 (1 x Full/1 x Half Size)
	Parallel	0
	mSATA	1
	IrDA	0
	GPIO 8-bit	4 x GPI + 4 x GPO Pin heater 2.0 mm pitch
	SATA PWR	1
	Output Con	
	Speaker	1
	Header	
Watchdog	Output	From Super I/O to drag RESETCON#
Timer	Interval	256 segments, 0,1,2255sec/min
	Input PWR	12V DC Jack
Power		AT/ATX Supported
Requirements	Power On	AT: Directly PWR on as power input ready
		ATX: Press button to PWR on after power
_	-	input ready
Environment	Temperature	0°C

1.3 Motherboard Layout



- 1: Backlight Control Level (BLT_PWM1)
- 2: Clear CMOS Header
- 3: Backlight Power Select (LCD BLT VCC) (BKT PWR1)
- 4: 2-Pin Buzzer Header
- 5 : Backlight & Amp Volume Control (BLT VOL1)
- 6 : Inverter Power Control Wafer (BLT_PWR1)
- 7: LVDS Panel Connector
- 8: COM1 Pin9 PWR Setting
- 9: Panel Power Select (LCD VCC) (PNL PWR1)
- 10: COM Port Header (COM2)
- 11: COM Port Header (COM1)
- 12: ATX/AT Mode Select
- 13: Digital Input / Output Power Select
- 14: Digital Input / Output Pin Header
- 15: GPIO Default Setting
- 16: Chassis Intrusion Header (CI1)
- 17: Chassis Intrusion Header (CI2)
- 18: mSATA Select
- 19: SATA Power Output Connector
- 20: SATA2 Connector (SATAII_1)
- 21: VGA Connector

1.4 I/O Panel



- 1 LAN RJ-45 Port (LAN1)
- 2 LAN RJ-45 Port (LAN2)
- 3 3.5mm Audio Jack (CTIA Standard)
- MIC GND HP-R
- 4 USB 2.0 Port (USB2_1)
- 5 Reset Button
- 6 Power Button



- 1 Micro USB 2.0 Port (USB2_2)
- 2 USB 3.0 Port (USB3_1)
- 3 HDMI Port (HDMI1)

- 4 Micro HDMI Port (HDMI2)
- 5 DC Jack Port (+12V Only)

Chapter 2: Installation

This is a 111.76×116.84 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.
- 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.
- Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that comes with the component.

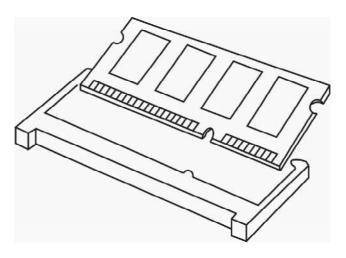


Before you install or remove any component, ensure that the power is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

2.3 Installation of Memory Modules (SO-DIMM)

UTX-110 / UTX-111 provides one 204-pin DDR3 (Double Data Rate 3) SO-DIMM slot, which supports single 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 (mini-PCle and mini-PCle/mini-SATA Slots)

There is 1 mini-PCIe slot and 1 mini-PCIe/mini-SATA slot on this motherboard.

mini-PCle slot:

MINI_PCIE1 (mini-PCIe slot; half size) is used for PCI Express mini cards

mini-PCle/mini-SATA slot:

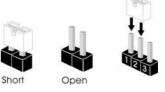
MINI_PCIE2 (mini-PCIe/mini-SATA slot; full size) is used for PCI Express mini cards or mSATA cards.

Installing an expansion card

- Step 1. Before installing the expansion card, please make sure that the power supply is switched off or the power cord is unplugged. Please read the documentation of the expansion card and make necessary hardware settings for the card before you start the installation.
- Step 2. Remove the system unit cover (if your motherboard is already installed in a chassis).
- Step 3. Remove the bracket facing the slot that you intend to use. Keep the screws for later use.
- Step 4. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
- Step 5. Fasten the card to the chassis with screws.
- Step 6. Replace the system cover.

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. 2)





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.

Digital Input/Output PWR Select (3-pin JGPIO_PWR1) (see p.8 No. 13)	1 2 3	1-2: +12V 2-3: +5V
ATX/AT Mode Select (3-pin PWR_JP1) (see p.8 No. 12)		1-2: AT Mode 2-3: ATX Mode
Panel Power Select (LCD_VCC) (5-pin PNL_PWR1) (see p.8 No. 9)	1	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. 3)	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. 1)	1-2: +3V 2-3: +5V
COM1 Pin9 PWR Setting (3-pin SET_CM1) (see p.8 No. 8)	1-2: +5V 2-3: +12V
mSATA Select (3-pin MSATA_SEL1) (see p.8 No. 18)	1-2: mini-PCle 2-3: mSATA
GPIO Default Setting (3-pin JGPIO_SET1)	1-2: Pull-High 2-3: Pull-Low

(see p.8 No. 15)

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!

SATA2 Connector

(SATAII 1: see p.8, No. 20)



This Serial ATA2 (SATA2) connector supports SATA data cables for internal storage devices. The current SATA2 interface allows up to 3.0 Gb/s data transfer rate.

SATA Power Output Connector

(4-pin SATA_PWR1)

(see p.8 No. 19)



COM Port Headers

(10-pin COM1)

(see p.8 No. 11)

(10-pin COM2) (see p.8 No. 10)



PIN	Signal Name								
1	DDCD#	3	TTXD	5	GND	7	RRTS#	9	DUMMY
2	RRXD	4	DDTR#	6	DDSR#	8	CCTS#	10	DUMMY



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 25 for details.

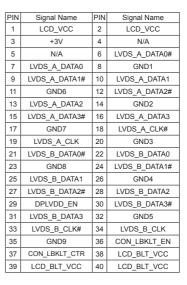
COM1 Port Pin Definition

PIN	PIN RS232		RS485
1	DCD	TX-	RTX-
2	RXD	RX+	N/A
3	TXD	TX+	RTX+
4	DTR	RX-	N/A
5	GND	GND	GND
6	DSR	N/A	N/A
7	RTS	N/A	N/A
8	CTS	N/A	N/A
9	+5V/+12V	N/A	N/A

LVDS Connector

(40-pin LVDS1)





Digital Input/Output Pin Header

(10-pin JGPIO1)

(see p.8 No. 14)



PIN	Signal Name	PIN	Signal Name
1	JGPIO_PWR	2	GND
3	SIO_GP27	4	SIO_GP23
5	SIO_GP26	6	SIO_GP22
7	SIO_GP25	8	SIO_GP21
9	SIO_GP24	10	SIO_GP20

Parameter	Range	
GPI/O input Low Voltage	Max. 0.8V	
GPI/O input High Voltage	Min. 2.0V	
GPI/O output Low Voltage	Max. 0.4V	
GPI/O output High Voltage	Min. 2.4V	
Note : Max. load per GPI/O pin : 12mA Current Max. 1A per power pin.		

Backlight & Amp Volume Control

(7-pin BLT VOL1)

(see p.8 No. 5)



PIN	Signal Name
1	GPIO_VOL_UP
2	GPIO_VOL_DW
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. 6)



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

Chassis Intrusion Headers

(2-pin CI1)

(see p.8 No. 16)

(2-pin CI2)

(see p.8 No. 17)



This motherboard supports CASE OPEN detection feature that detects if the chassis cover has been removed. This feature requires a chassis with chassis intrusion detection design.

Buzzer Header

(2-pin BUZZ1)

(see p.8 No. 4)



VGA Connector

(10-pin VGA1)

(see p.8 No. 21)



PIN	Signal Name								
1	DDC_CLK	3	HSYNC	5	BLUE	7	GREEN	9	RED
2	DDC_DATA	4	VSYNC	6	GND	8	GND	10	GND

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></enter>	To bring up the selected screen					
<f1></f1>	To display the General Help Screen					
<f7></f7>	Discard changes					
<f9></f9>	To load optimal default values for all the settings					
<f10></f10>	To save changes and exit the UEFI SETUP UTILITY					
<f12></f12>	Print screen					
<esc></esc>	To jump to the Exit Screen or exit the current screen					
<tab></tab>	Switch to next function					
<pgup></pgup>	Go to the previous page					
<pgdn></pgdn>	Go to the next page					
<home></home>	Go to the top of the screen					
<end></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 USB Configuration.





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® 7 / 8 / 8.1 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.

Enhanced Halt State (C1E)

Enable or disable Enhanced Halt State (C1E) for lower power consumption.

No-Excute Memory Protection

No-Execution (NX) Memory Protection Technology is an enhancement to the IA-32 Intel Architecture. An IA-32 processor with "No Execute (NX) Memory Protection" can prevent data pages from being used by malicious software to execute code.

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.

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.

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 HDMI HD Audio

This allows you to enable or disable the Onboard HDMI 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.

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.

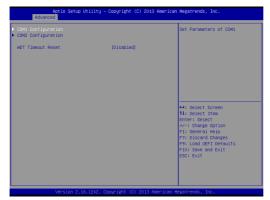
SATA Aggressive Link Power Management

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



COM1 Configuration

Use this to set parameters of COM1. Select COM1 port type: [RS232], [RS422] or [RS485].

COM2 Configuration

Use this to set parameters of COM2.

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.

PCIE Devices Power On

Use this item to enable or disable PCIE devices 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.

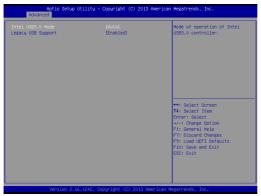
USB Keyboard/Remote Power On

Use this item to enable or disable USB Keyboard/Remote to power on the system.

USB Mouse Power On

Use this item to enable or disable USB Mouse to power on the system.

3.3.6 USB Configuration



Intel USB 3.0 Mode

Select Intel® USB 3.0 controller mode. Set [Smart Auto] to keep the USB 3.0 driver enabled after rebooting (USB 3.0 is enabled in BIOS). Set [Auto] to automatically enable the USB 3.0 driver after entering the OS (USB 3.0 is disabled in BIOS). Set [Enabled] to keep the USB 3.0 driver enabled (Must install driver to use USB devices under Windows® 7). Set [Disabled] to disable the USB 3.0 ports.

Legacy USB Support

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

[Enabled] - Enables support for legacy USB.

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

3.4 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.



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

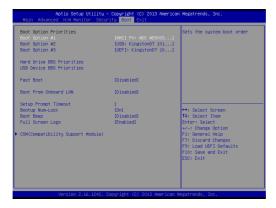
Set or change the password for the user account. Users are unable to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

Secure Boot

Enable to support Windows 8 Secure Boot.

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.



Fast Boot

Fast Boot minimizes your computer's boot time. There are three configuration options: [Disabled], [Fast] and [Ultra Fast]. The default value is [Disabled]. Please refer to below descriptions for the details of these three options:

[Disabled] - Disable Fast Boot.

[Fast] - The only restriction is you may not boot by using an USB flash drive.

[Ultra Fast] - There are a few restrictions.

- 1. Only supports Windows[®] 8.1 / 8 64-bit UEFI operating system.
- You will not be able to enter BIOS Setup (Clear CMOS or run utility in Widows® to enter BIOS Setup).
- If you are using an external graphics card, the VBIOS must support UEFI GOP in order to boot.

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.

Boot Beep

Select whether the Boot Beep should be turned on or off when the system boots up. Please note that a buzzer is needed.

Full Screen Logo

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

CSM (Compatibility Support Module)



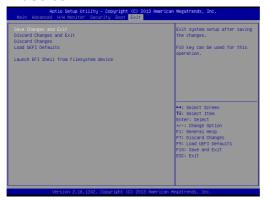
CSM

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 / 8 64-bit and all of your devices support UEFI, you may also disable CSM for faster boot speed.

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. Do not launch?

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: 8.1 / 8 / 7. 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 ASRock or want to know more about ASRock, you're welcome to visit ASRock's website at http://www.asrock.com; or you may contact your dealer for further information.