# **User Manual**



Fanless Compact Embedded Box PC with Intel® Apollo Lake Pentium® N4200 Processor



# **Record of Revisions**

Version	Issue Date	Descriptions	Made By
1.0	2021/07/30	First Release	Derek



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# **Safety Instructions**

- 1. Read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- 4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 5. Keep this equipment away from humidity.
- 6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
- 7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- 12. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 13. For safety reasons, the equipment should be opened only by qualified service personnel. If one of the following situations arises, get the equipment checked by service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the equipment.
  - The equipment has been exposed to moisture.
  - The equipment does not work well, or you cannot get it to work according to the user manual.
  - The equipment has been dropped and damaged.
  - The equipment has obvious signs of breakage.
- 14. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 55° C (131° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.
- 15. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.



## **Safety Precaution - Static Electricity**

Follow these simple precautions to protect yourself from harm and the products from damage:

- 1. To avoid electrical shock, always disconnect the power from your PC chassis before you work on it. Don't touch any components on the CPU card or other cards while the PC is on.
- 2. Disconnect power before making any configuration changes. The sudden rush of power as you connect a jumper or install a card may damage sensitive electronic components.



## Contents

Chapter 1. General Introduction
1.1 I/O Arrangement
1.2 Internal Interfaces12
1.3 Mechanical Dimensions14
Chapter 2. System Setup1
2.1 Power Installation Procedure1
2.2 Installing 2.5" HDD and Swappable HDD Bracket1
2.3 Installing Memory and Internal Expansion Device18
2.4 Installing mini-PCIe Card
Chapter 3. BIOS Setting
3.1 Main22
3.2 Advanced23
3.2.1 TPM Configuration24
3.2.2 Super IO Configuration2
3.2.3 Hardware Monitor20
3.2.4 S5 RTC Wake Configuration2
3.2.5 CPU Configuration28
3.2.6 SATA Configuration29
3.2.7 OS Selection
3.3 Chipset
3.4 Security
3.5 Boot
3.6 Exit



## **Chapter 1. General Introduction**

## 1.1 I/O Arrangement





#### Power Button

Press this button to turn on the system. 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).

#### DC 9~36V Power Input Connector

This system supports DC 9-36V power input. The connector must be connected to DC 9-36V power adaptor. After plugging in the phoenix connector, be sure to fasten the two screws to lock the connector.





Pin	Definition
1	GND
2	Vin+ (9-36V DC)

#### VGA Port



Pin	Definition	Pin	Definition
1	RED	9	VCC
2	GREEN	10	GND
3	BLUE	11	NC
4	NC	12	DAT
5	GND	13	HSYNC
6	GND	14	VSYNC
7	GND	15	CLK
8	GND		

#### Audio Port

Green connector means LINE OUT.

#### HDMI Port

This port can be connected to an HDMI monitor. 1 x HDMI 1.4 port supports a maximum resolution of 3840 x 2160 @ 30 Hz.



Pin	Definition	Pin	Definition
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2 -	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	Reserved	14	Reserved



15	SCL	16	SDA
17	DDCGround	18	+5 V Power
19	9 Hot Plug Detect		
10	ML_Lane3[p]	20	DP_PWR

#### LAN Port

This port can be connected to Ethernet via RJ-45 connector.



LAN Port

#### 10/100BASE-T:

Pin	Definition	Pin	Definition
1	TX_D0+	5	NC
2	TX_D0-	6	RX_D1-
3	RX_D1+	7	NC
4	NC	8	NC

1000BASE-T:

Pin	Definition	Pin	Definition
1	TX_D0+	5	BI_D2-
2	TX_D0-	6	RX_D1-
3	RX_D1+	7	BI_D3+
4	BI_D2+	8	BI_D3-

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

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



**User Manual** 

USB 3.0 Port



Pin	Definition	
1	+5	
2	USB-	
3	USB+	
4	GND	
5	StdA_SSRX-	
6	StdA_SSRX+	
7	GND_DRAIN	
8	StdA_SSTX-	
9	StdA_SSTX+	

Basically, USB3.0 supports 900mA @ 5 V.

#### ANT

These are reserved holes for SMA connectors of antennas. When a customer selects a 4G or a Wi-Fi module, they will need the ANT hole for plugging in a SMA connector.

#### COM1 (RS-232/422/485), COM 2/3/4(RS-232)

(RS-232)

Pin	Definition	Pin	Definition
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI/5V/12V
5	GND		



(RS-422)

Pin	Definition	Pin	Definition
1	TX-	6	N/A
2	TX+	7	N/A
3	RX+	8	N/A
4	RX-	9	RI/5V/12V
5	GND		

(RS-485)

Pin	Definition	Pin	Definition
1	RTX-	6	N/A
2	RTX+	7	N/A
3	N/A	8	N/A
4	N/A	9	RI/5V/12V
5	GND		

#### O NOTE: THE PARAMETERS OF COM1 CAN BE SET BY JUMPER SETTING.



Desription

5V/12V/RI signal select jumper for Serial port header#1 (JCOM11)

- <sup>2</sup> 1 2 Close: 5V (Power COM) <sup>2</sup> 1 2 5 3-4 Close: RI (Stand COM)
- 200 6 5-6 Close: 12V (power COM)

Pin No.	Definition
1	VCC
2	RI1-/5V/12V
3	NRI1-
4	RI1-/5V/12V
5	+12V
6	RI1-/5V/12V

RS232/RS422/RS485 select jumper for Serial port header#1 (JCOM12/JRS13/JRS14/JRS11/JRS12)

2 00 6 1 00 5	1-2 Close: RS232	Pin No.
2	3-4 Close: RS422	1
200.6	5-6 Close: RS485	2
	1-2 Close: RS422/RS485	4
RS14 RS11	2-3Close: RS232 (Default setting)	5

Pin No.	Definition
1	RXD232
2	RXD1
3	RXD422
4	RXD1
5	RXD485
6	RXD1



## **1.2 Internal Interfaces**

SATA Connector

Pin	Definition
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

#### SATA Power Connector



Pin	Definition
1	+5V
2	GND
3	GND
4	+12V

#### mini-PCIe Slot

1 x full-size mini-PCIe (PCIe x1 + USB2.0) slot with SIM holder.



#### **User Manual**



M.2 Slot

1 x 2242 M key SATA III.





## **1.3 Mechanical Dimensions**









# **Chapter 2. System Setup**

### **2.1 Power Installation Procedure**

#### Connect Power Cord

This box pc can support wide-range DC input (9-36V). Be sure to hold the power cord by the plug end only. Please follow the steps below to connect the power cord:

1. Connect the male end (Phoenix connector) of the power cord to the DC input connector of BPC-3040 and lock it up.



- 2. Connect the 3-pin male plug of the power cord to an electrical outlet.
- 3. Connect the Phoenix connector terminal to the system's power input connector.







- 1. AFTER PLUGGING IN THE PHOENIX CONNECTOR, BE SURE TO FASTEN THE TWO SCREWS TO LOCK THE CONNECTOR.
- 2. WHITE CABLE STANDS FOR 12V, BLACK CABLE STANDS FOR GND. MAKE SURE THE CONNECTOR IS PLUGGED IN WITH CORRECT DIRECTION.

# Connect Keyboard and Mouse Connect the mouse and keyboard to the USB connectors of BPC-3040.

Turn on Power
 The power button is located at the right side of the front cover of the box pc.



### 2.2 Installing 2.5" HDD and Swappable HDD Bracket

Step 1: Unfasten the <u>8 screws</u> on the chassis and open the bottom cover.



Step 2: Unfasten the <u>SATA cable</u> and <u>SATA power cable</u> on the HDD/SSD.



Step 3: Unfasten the <u>4 screws</u> on the HDD/SSD bracket.



- Step 4: Install another HDD/SSD and fasten all screws.
- ◎ NOTE: THE BRACKET ONLY SUPPORTS 7MM HDD/SSD.



### **2.3 Installing Memory and Internal Expansion Device**

This box pc provides one 204-pin DDR3L SO-DIMM slot, supporting single channel DDR3L SDRAM only.

Step 1: The notch on the SO-DIMM should be lined up with the slot key.



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



## 2.4 Installing mini-PCIe Card

**Expansion Slots mini-PCIe** 

There is 1x full mini-PCIe slot and 1x M.2 2242 M key slot.

mPCle /m-SATA Placement



M.2 Placement





- Installing An Expansion Card
  - 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.
  - 2. Remove the system unit cover.
  - 3. Align the card connector with the slot and press firmly until the card is completely hold in place.
  - 4. Fasten the card to the chassis with screws.
  - 5. Put the system cover back on.



## **Chapter 3. BIOS Setting**

The BIOS (Basic Input/Output System) installed in your computer system's ROM supports Intel<sup>®</sup> processors. The BIOS provides critical low-level support for a standard device such as disk drives, serial ports, and parallel ports. It also adds virus and password protection as well as special support for detailed fine-tuning of the chipset controlling the entire system. The BIOS provides a setup utility program for specifying the system configurations and settings. The BIOS ROM of the system stores the setup utility.

When you turn on the computer, the BIOS is immediately activated. Pressing the <Del> key immediately allows you to enter the setup utility. When you enter the BIOS setup utility, 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  $\leftarrow$  key or  $\rightarrow$  key to choose the selections on the menu bar. Use <Enter> key to get into the sub screen or an item. Use  $\downarrow$  key or  $\uparrow$  key to move the cursor down or up to select items. Use <Exit> key to exit the current screen.



### 3.1 Main

Aptio Setup Utility – Main Advanced Chipset Security	Copyright (C) 2018 American Boot Save & Exit	Megatrends, Inc.
BIOS Information Project Name BIOS Version Build Date and Time LAN1 MAC Address LAN2 MAC Address Total Memory TXE FW Version System Date System Time	MZAPLAS-SI F4 09/27/2018 17:29:30 1C-1B-0D-EA-0C-60 1C-1B-0D-EA-0C-61 8192 MB 3.1.55.2269 [Tue 10/23/2018] [10:40:30]	Set the Date. Use Tab to switch between Date elements. ++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2 18 1260 Co	nuright (C) 2018 American Mu	egatrends Inc

 $\odot\,$  Note: to clear CMOS, please short the two pins indicated below.





## 3.2 Advanced

Aptio Setup Utility – Copyright (C) 2018 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
<ul> <li>TPM Configuration</li> <li>IT8786 Super IO Configuration</li> <li>Hardware Monitor</li> <li>S5 RTC Wake Settings</li> <li>CPU Configuration</li> <li>SATA Configuration</li> <li>OS Selection</li> </ul>	TPM Configuration
	<pre>fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>



### **3.2.1 TPM Configuration**



#### ftpm

This item allows users to enable or disable the fTPM.

#### Trusted Computing

This item allows users to enable or disable the Security Device Support.



## **3.2.2 Super IO Configuration**

Advanced	
<pre>IT8786 Super IO Configuration &gt; Serial Port 1 Configuration &gt; Serial Port 2 Configuration &gt; Serial Port 3 Configuration &gt; Serial Port 4 Configuration</pre>	Set Parameters of Serial Port 1 (COMA)
	<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

#### COM1 Configuration

This item allows users to enable or disable COM1.

#### COM2 Configuration

This item allows users to enable or disable COM2.

#### COM3 Configuration

This item allows users to enable or disable COM3.

#### **COM4** Configuration

This item allows users to enable or disable COM4.



## **3.2.3 Hardware Monitor**

Aptio Setup Utility Advanced	– Copyright (C) 2018 America	an Megatrends, Inc.
CPU Fan Fail Warning CPU Fan Speed Control	[Disabled] [Normal]	Enable to set a warning message when the CPU fan fail
CPU Temperature System Temperature CPU Fan Speed CPU VCORE DDR 12V SV 3.3V	: +38 % : +32 % : N/A : +0.781 V : +1.375 V : +12.738 V : +5.060 V : +3.286 V	
		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.18.1260.	Copyright (C) 2018 American	Megatrends, Inc.

#### CPU Fan Fail Warning

This item allows users to enable or disable the CPU Fan Fail Warning.

#### CPU Fan Speed Control

This item allows users to select CPU Fan Speed as [Normal] or [Full Speed].



Aptio Setup Advanced	o Utility – Copyright (C) 2018 Ame	erican Megatrends, Inc.
Wake system from S5	[Disabled]	Enable or disable System wake on alarm event. Select FixedTime, system will wake on the hr::min::sec specified. ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.	.18.1260. Copyright (C) 2018 Ameri	ican Megatrends, Inc.

## 3.2.4 S5 RTC Wake Configuration

#### Wake system from S5

This item allows users to set Fixed Time or disable System wake on alarm event. Select Time System will wake on the hr:: min::sec:: specified.



## **3.2.5 CPU Configuration**

Aptio Setup Utility - Advanced	Copyright (C) 2018 American	) Megatrends, Inc.
CPU Configuration		When enabled, a VMM can
		utilize the additional
Intel(R) Pentium(R) CPU N4200 @ 1.1	OGHZ	hardware capabilities provided
CPU Signature	50609	by Vanderpool Technology
Microcode Patch	32	
The HT Technology	4 Not Cupported	
Intel NT-y Technology	Supported	
64-bit	Supported	
OF DIC	Suppor rea	
L1 Data Cache	24 kB x 4	
L1 Code Cache	32 kB x 4	
L2 Cache	1024 kB x 2	
L3 Cache	Not Present	↔+: Select Screen
		↑↓: Select Item
EIST	[Enabled]	Enter: Select
Intel Virtualization Technology	[Enabled]	+/−: Change Opt.
Turbo Mode	[Enabled]	F1: General Help
C-States	[Enabled]	F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESU: EXIT
Version 2.18.1260. C	opyright (C) 2018 American M	legatrends, Inc.

#### Intel Virtualization Technology

This item allows users to enable or disable Intel Virtualization Technology. Select [Enabled] can utilize the additional hardware capabilities provided by Vanderpool Technology.

#### Turbo Mode

This item allows users to enable or disable Turbo mode.

#### C-States

This item allows users to enable or disable C-States.



## **3.2.6 SATA Configuration**

Aptio Setup Advanced	Utility – Copyright (C) 2	2018 American Megatrends, Inc.	
SATA Mode Selection	[AHCI]		
M.2 [Not Installed]			
		Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults	
		F4: Save & Exit ESC: Exit	
Version 2.1	.8.1260. Copyright (C) 201	18 American Megatrends, Inc.	

#### SATA Mode Selection

The M/B only supports AHCI mode.

#### SATA

This item is used to check the hard disk model and capacity.

#### M.2

This item is used to check the M.2 SSD model and capacity.



## 3.2.7 OS Selection

Aptio Setup Advanced	Utility – Copyright (C) 2018 Amer	ican Megatrends, Inc.
CSM Support	[Never]	Enable or Disable LAN EFI
LAN EFI driver	[Disabled]	
		<pre>++: Select Screen  fl: Select Item Enter: Select +/-: Change Opt. F1: General Help E2: Previous Values</pre>
		F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2	18 1260 - Conucidat (C) 2018 Americ	an Medatrends Inc

#### CSM Support

Never support CSM.

#### LAN EFI Driver

This item allows users to enable or disable the LAN EFI Driver.



### **3.3 Chipset**

Aptio Setup Utility – Main Advanced <mark>Chipset</mark> Security	Copyright (C) 2018 American Boot Save & Exit	Megatrends, Inc.
VT-d DVMT Pre-Allocated Onboard Audio Onboard LAN 1 Onboard LAN 2 ERP Lowest Power State Mode Restore AC Power Loss LVDS support XHCI Hand-off WatchDog Timer	[Enabled] [64M] [Enable] [Enable] [Enable] [Disabled] [Power On] [Disabled] [Enabled] [Disabled]	Enable/Disable CPU VT-d
BIOS Lock	[Enabled]	<pre>t4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

#### VT-d

This item allows users to enable or disable the VT-d. The default value is [Enabled].

#### DVMT Pre-Allocated

This item allows users to set DVMT as [64M], [128M], [256M], or [512M]. The default value is [64M].

#### Onboard Audio

This item allows users to enable or disable the Onboard Audio. The default value is [Enabled].

#### Onboard LAN 1

This item allows users to enable or disable the Onboard LAN 1. The default value is [Enabled].

#### Onboard LAN 2

This item allows users to enable or disable the Onboard LAN 2. The default value is [Enabled].

#### ERP Lowest Power State Mode

This item allows users to enable or disable the ERP Lowest Power StateMode. The default value is [Disabled].



#### Restore AC Power Loss (AT/ATX Power Setting)

This item allows users to set Restore AC Power Loss as [Power On], [PowerOff], or [Last State]. The default value is [Power On].

#### LVDS Support

This item allows users to enable or disable the LVDS support. The default value is [Disabled].

#### XHCI Hand-off

This item allows users to enable or disable the XHCI Hand-off. The default value is [Enabled].

#### WatchDog Timer

This item allows users to set WatchDog Timer as [15S], [30S], [45S], [60S], or [Disabled]. The default value is [Disabled].

#### BIOS Lock

This item allows users to enable or disable the BIOS Lock. The default value is [Enabled].



### **3.4 Security**

Aptio Setup Util Main Advanced Chipset <mark>Secu</mark>	ity – Copyright (C) 2018 Ameri rity Boot Save & Exit	ican Megatrends, Inc.
Password Description		Set Administrator Password
If ONLY the Administrator's pa then this only limits access t only asked for when entering S If ONLY the User's password is is a power on password and mus boot or enter Setup. In Setup have Administrator rights. The password length must be in the following range: Minimum length	issword is set, o Setup and is setup. : set, then this it be entered to the User will 3	
Maximum length	20	
Administrator Password User Password		<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt.</pre>
▶ Secure Boot		F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.18.12	:60. Copyright (C) 2018 America	an Megatrends, Inc.

#### Administrator Password

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

#### User Password

This is used to 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

#### 1. Secure Boot Control

This item allows users to enable or disable the Secure Boot Control. The default value is [Enabled].

2. Secure Boot Mode

This item allows users to choose [Standard] or [Custom] as the Secure Boot Mode. The default value is [Standard].



### **3.5 Boot**

Aptio Setup Main Advanced Chipset	Utility – Copyright (C) 2018 American Security <mark>Boot</mark> Save & Exit	Megatrends, Inc.
Full Screen LOGO Show Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3	[Enabled] [Windows Boot Manage] [UEFI: Disk PMAP,] [UEFI: Built-in EFI ]	Enable or disable full screen LOGO show on POST.
		<pre> ++: Select Screen  1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values </pre>
		F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.	18.1260. Copyright (C) 2018 American M	egatrends, Inc.

#### Full Screen LOGO Show

This item allows users to enable or disable the Full Screen LOGO Show. The default value is [Disabled].

#### Boot Option #1

This item allows users to set the system boot order.



### **3.6 Exit**

Aptio Setup Utility – Copyright (C) 2018 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
Save Options Save Changes and Reset Discard Changes and Reset	Reset the system after saving the changes.
Restore Defaults	
Boot Override Windows Boot Manager (PO: Phison SSB032GPTCO-S91) UEFI: iDisk PMAP, Partition 1 UEFI: Built-in EFI Shell	
	<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
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#### Save Changes and Reset

When this option is selected, the following message will pop up: "Save configuration changes and reset?". Select [OK] to save the changes and exit the UEFI SETUP UTILITY.

#### Discard Changes and Reset

When this option is selected, the following message will pop up: "Reset without saving?" Select [OK] to exit the UEFI SETUP UTILITY without saving any changes.

#### Restore Defaults

Restore/Load default values for all setup options.

#### Boot Override

Let the user select the boot device.

