User Manual GK5CN6Z

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The illustrations in this user's manual are for reference only. Actual product specifications may vary with territories.

The information in this user's manual is subject to change without notice.

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Chapter 1

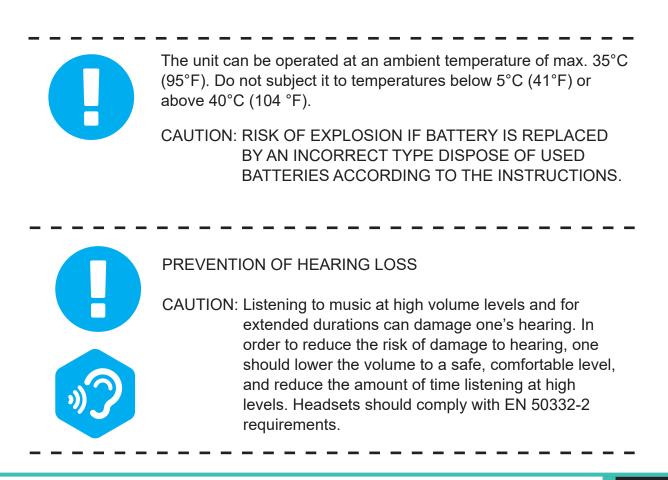


1.1 Regulations Information

¤ CE compliance

This device is classed as a technical information equipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU-guidelines:

- EMC Directive 2014/30/EU,
- Low Voltage Directive 2014/35/EU(equals A2 : 2013),
- R&TTE Directive 1999/5/EC



1.2 Safety Instructions



1

Do not apply heavy pressure to the computer or subject it to any form of strong impact as this can damage the computer's components or otherwise cause it to malfunction.

Never cover or block the air vents including those located at the base of the computer. Never cover your computer or AC adapter with any object.



2

To keep your computer in prime operating condition, protect your work area from direct sunlight.



Do NOT expose to or use near liquid, rain, or moisture. Do NOT use the modem during electrical storms.



Do not use or expose this device around magnetic fields as magnetic interference may affect the performance of the device.

1.3 Conventions for this Manual



8 Notebook Manual

1.4 Release History



Chapter 2

Getting to know the basics

2.1 Product Specification

This User's Manual provides technical information of instructions and illustrations on how to operate this notebook for the customer. Please read this manual carefully before using this notebook.

· Physical Characteristic

Dimension

359* 242* 19~(23)mm

2.1kg+/- 5%

· CPU

Support Processor

CFL-H

· GPU

Support Processor NVIDIA GTX 1060

· Memory

DDR

DDR4 2666 MHz

_ _ _ _ _ _ _ _ _ _ _

· I/O Port

DC-in	x 1
USB	USB 3.1 X 2 (Gen1)
	USB 2.0 X 1
	USB type C USB 3.1 X 1 (Gen1)
RJ45	x 1
Card Reader	x 1 (2 in 1 Card reader-support MMC/SD/SDHC/SDXC card)
HDMI	x 1
Audio out & Mic in	x 2
Mini DP	x 2

· Audio

Audio Codec
Azalia standard support, D3 mode support
Speaker/MIC
Build-in 2 speakers
Speaker : 2W/each
Digitial Microphone support w/ Camera
Sound Baster Cinema

Input

Keyboard

Mechanical KB with RGB backlight support,

Pointing Device

Touch pad 104*72

· Display

LCD

15.6" FHD, 16:9,45% / 72% , (Narrow border)

· Communication Port

LAN

Supports 10/100/1000 Mb/Sec

Wireless LAN

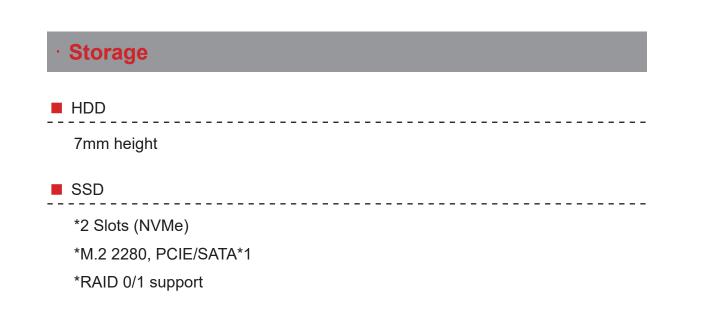
*M.2 2230 w/ PCIE CNVI interface

*IEEE802.11b/g/n support; AC mode support

Webcam

HD webcam

HD webcam with D-MIC*1/D-MIC*2



· Power

AC Adapter

 Automatics Voltage adjustment between 100 and 240VAC 50/60Hz,
 1. 150 Watts (19V/7.89A), 3 Pins
 2. 180 Watts (19.5V/9.23A), 3 Pins (Option)

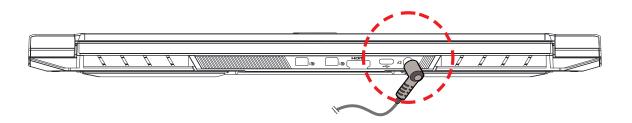
 Battery

 Li- polymer Battery, SW Gas Gauge IC, soft pack, ,
 3 cells (3s1p 4100mAh) 46.74wh
 4 cells (4s1p 4100mAh) 62.32wh(Option)

 CAUTION: MODEL IS DESIGNED TO USE WITH THE DC INPUT:
 19.5V/9.23A (Option) or 19V/7.89A

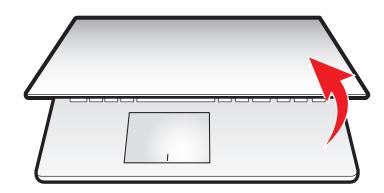
2.2 Preparing your Computer

A Connect the AC adapter's DC output plug to the DC IN jack.



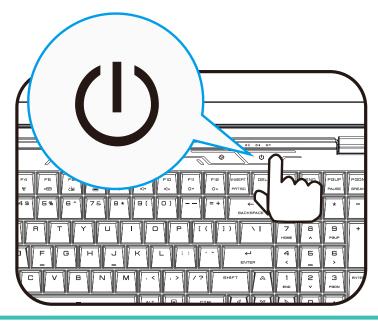


The display panel can be opened to a wide range of angles for optimal viewing.





Press the power button to turn on your notebook computer.

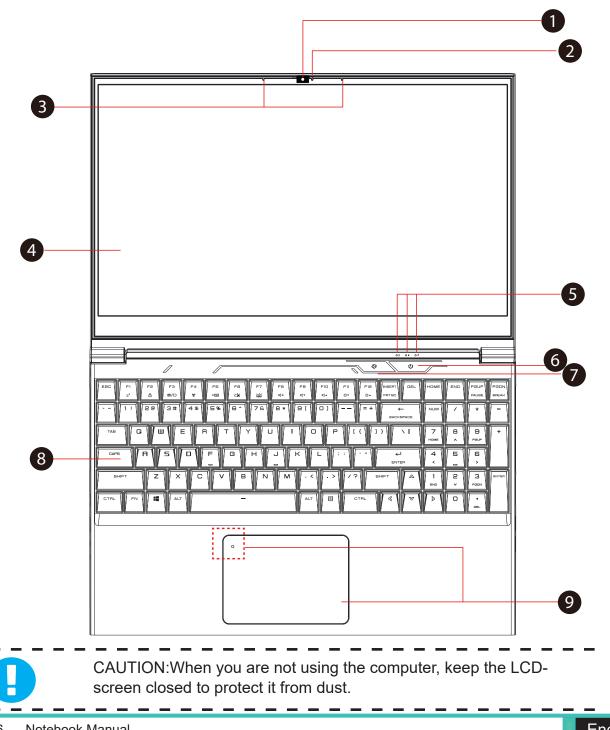


2.3 Product Overview

Please become familiar with each component before you operate the computer.

Top-Open View

NOTE: The product's color/ LED color, I/O port, indicator location, and specification will depend upon the actually shipping product.



1

Webcam

A device that allows you to record video or take photographs with your computer.



Camera Status LED

The Camera Status LED shows the Camera status.



Microphone

Built-in microphone.



LCD screen

Displays of your notebook computer.



Caps Lock Status LED

Default: Green

Charging & Battery indicator

Charging(Power ON): Orange Charging(Power Off): Orange Battery Low (<6%): Orange (3 Sec/Cycle) Charging finish (w/AC): Green, (w/o AC): Off

Power indicator

Power ON: Green Suspend: Green , Slow / Smooth, Blinking Green (3 Sec/Cycle) Power Off: OFF

6

Power Button

Press this button to turn the computer's power on or off.



Quick launch button FAN full speed ON/OFF



Keyboard

Full 15.6" KB with RGB backlight support.

(The keyboard will depend upon the actually shipping product)

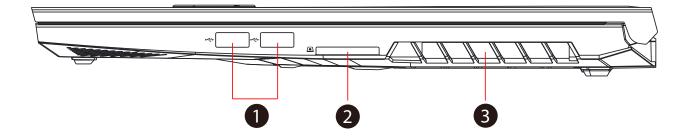


Touchpad/Click pad

Touch-sensitive pointing device which functions like the mouse.

Touchpad LED indicator/ Touchpad switch

Right Side View





USB Ports

Connects an USB device. (such as USB Zip drive, keyboard or mouse) into this jack.



2 in 1 Card Reader 🔳

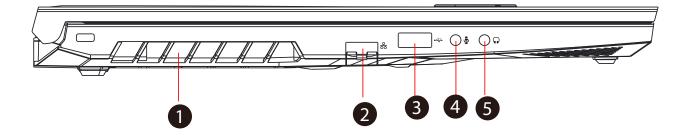
Insert Memory Card.



Vents

The thermal vents are designed to cool the internal components and avoid overheating.

Left Side View





Vents

The thermal vents are designed to cool the internal components and avoid overheating.



Network Jack 중

This jack lets you connect to a LAN.



USB Ports

Connects an USB device. (such as USB Zip drive, keyboard or mouse) into this jack.



Mic In Jack 📮

Connects amplified speakers, headphones or microphone into this jack.

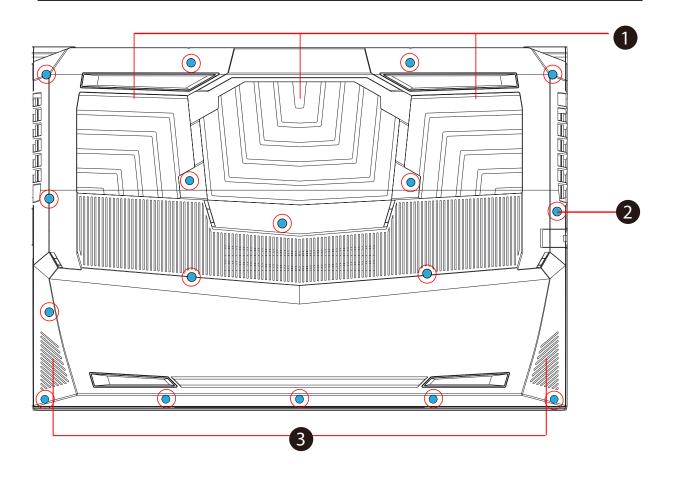




Connects amplified speakers, headphones or microphone into this jack.

Bottom Side View

NOTE : The product's thermal vent will depend upon the actually shipping product.





Vents

The thermal vents are designed to cool the internal components and avoid overheating.



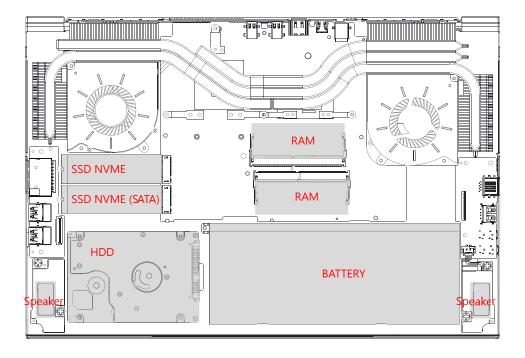
HDD / RAM / SSD / WLAN Compartment Cover Screws

You can remove the screws to install or remove the HDD / RAM / SSD / WLAN compartment cover. (Please refer to the HDD / RAM / SSD / WLAN compartment view on the following page.)



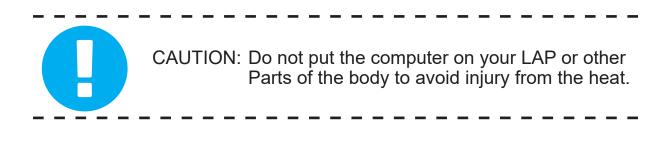
Speaker

HDD / RAM / SSD / WLAN Compartment View (Optional)

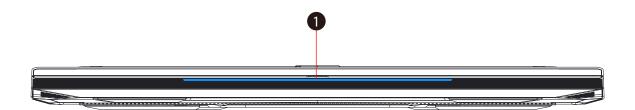




If need to upgrade SATA SSD to PCIE SSD, Please contact technical support and after-sales service.



Front Side View

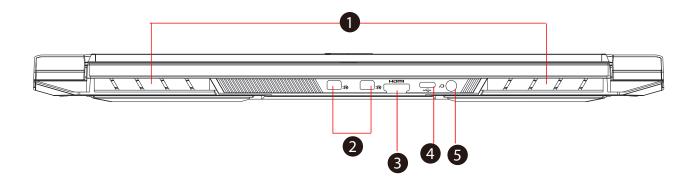




1 Light bar

Light bar Choose from APP

Back Side View





Vents

The thermal vents are designed to cool the internal components and avoid overheating.



Mini Display Port ‡

Connected to the screen, or home theater system.



HDMI port HDMI

Supports high-definition digital video connections.



USB Port (USB Type C) 🛛 🗲

Connects an USB device (such as USB Zip drive, keyboard or mouse) into this jack. With charging function.



Power Connector

Connects the AC adapter into this connector.

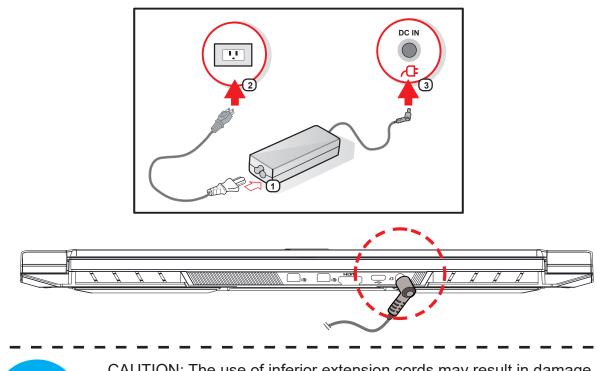
Chapter 3

Getting started

3.1 AC Adapter

Please be noted that it is strongly recommended to connect the AC adapter and use the AC power while using this notebook for the first time. When the AC adapter is connected, the battery is being charged immediately. Attach the AC adapter when you need to charge the battery or you want to operate from AC power. It is also the fastest way to get started, because the battery pack will need to be charged before you can operate from battery power.

Note that the AC adapter included in the package is approved for your notebook; using other adapter model may damage either the notebook or other devices attached to it.



CAUTION: The use of inferior extension cords may result in damage to your notebook. Your notebook comes with its own authorized AC adapter. Use of a different AC adapter or cable extension which is not authorized for use will void warranty protection if damage to hardware is found in association to said adapter or extension cable.

NOTE: The power adapter can become hot when in use. Please be sure the AC adapter is not covered with any materials keep it away from exposed parts of your body. The AC adapter appearance may vary depending on your region.

3.2 Knowing the Keyboard

The following defines the colored hot keys on the Keyboard.

The colored commands can only be accessed by first pressing and holding the function key while pressing a key with a colored command.

ESC F1	F2 F3	F4 F5 F6	F7 F8	F9 F10 ⊈▼ ⊈▲	F11 F12	INSERT DEL	HOME	END	PGUP PAUSE	PGDN BREAK
	2@//3#/	4\$ 5% 6^	78 8*	9(0)			NUM		*	-
ТАВ	E	ВТ	YUII	P		}	7	8	9 PGUP	+
	1 5 1		LH	K L :	:	لب ENTER	4	5	6	
SHIFT	ZX		ВИМ	. < . >	· · · · ·	BHIFT		2	3 PGDN	ENTER
CTRL FN	ALT		_	ALT	CTRL					



NOTE: The number of keys available on your keyboard will depend on the country/region in which the keyboard was designed and built.

3.2.1 For keyboard users

To activate these functions, press the hot key associated with the desired function as below :

Function Keys

Keypad		Function Description
$\boxed{\mathbb{F}_{1}} + \boxed{\mathbb{F}_{1}}_{z^{z}}$	Suspend:	Press this key combination (Fn+F1) to enter sleep mode.
	Windows Lock/On:	Press this key combination (Fn+F2) to turn Windows Lock/On .
	Display mode:	Press this key combination (Fn+F3) to enable Display Mode.
Fn + F4 %	RADIO On/Off:	Press this key combination (Fn+F4) to turn all radios on or off.
	Touch pad On/Off:	Press this key combination (Fn+F5) to On/Off Touch pad mode.

Function Keys

Keypad		Function Description
	Keyboard Brightness down:	Press this key combination (Fn+F6) to decrease brightness of Keyboard.
	Keyboard Brightness up:	Press this key combination (Fn+F7) to increase brightness of Keyboard.
	MUTE:	Press this key combination (Fn+F8) to enter MUTE mode.
	Volume down:	Press this key combination (Fn+F9) to enter Volume down mode.
	Volume up:	Press this key combination (Fn+F10) to enter Volume up mode.
	Brightness down:	Press this key combination (Fn+F11) to decrease brightness of LCD display.
	Brightness up:	Press this key combination (Fn+F12) to increase brightness of LCD display.

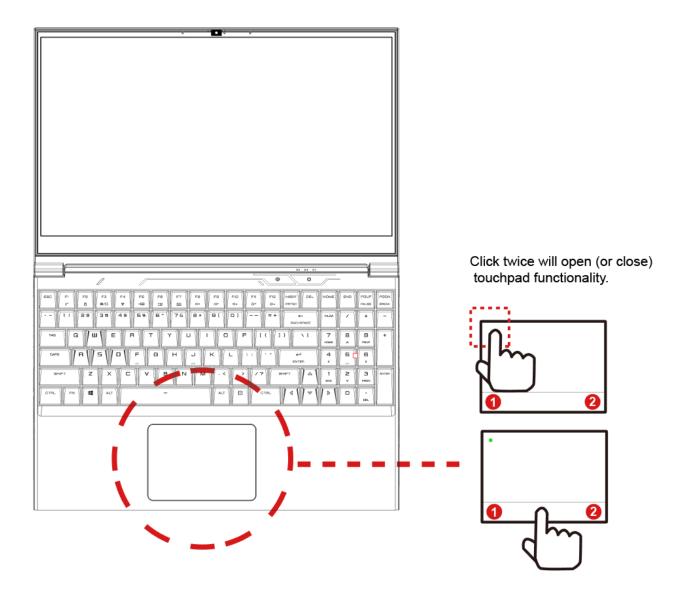
Function Keys

Keypad		Function Description
• + Q	Search Charm : (Optional)	Press this key combination (Windows logo key+Q) to open the search charm and search apps.
+	Settings Charm : (Optional)	Press this key combination (Windows logo key+I) to open the settings charm.
+ H	Share Charm : (Optional)	Press this key combination (Windows logo key+H) to open the share charm.
+ K	Devices Charm : (Optional)	Press this key combination (Windows logo key+K) to open the devices charm.

3.3 Using the touchpad / clickpad

The touchpad / clickpad is a rectangular electronic panel located just below your keyboard. Click twice within 15x15 mm left corner will open or close (Green light) touchpad functionality. You can use the staticsensitive panel of the touchpad / clickpad and slide it to move the cursor. You can use the buttons below the touchpad as left and right mouse buttons.

Press the left 1 and right 2 buttons located on the edge of the touchpad / clickpad to make selections and run functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad / clickpad produces similar results.



Chapter 4

BIOS setup

4.1 About BIOS Setup

4.1.1 When to Use BIOS Setup ?

You may need to run the BIOS Setup when:

- An error message appears on the screen during the system booting up and is requested to run SETUP.
- You want to change the default settings for customized features.
- · You want to reload the default BIOS settings.

4.1.2 How to Run BIOS Setup ?

To run the BIOS Setup Utility, turn on the notebook and press the [Del] key during the POST procedure.

If the message disappears before you respond and you still wish to enter Setup, either restart the system by turning it OFF and ON, or simultaneously pressing [Ctrl]+[Alt]+[Del] keys to restart.

Be noted that the screen snaps and setting options in this chapter are for your references only. The actual setting screens and options on your Notebook may be different because of BIOS update.

The setup function only can be invoked by pressing [Del] or [F2] key during POST that provide a approach to change some setting and configuration the user prefer, and the changed values will save in the NVRAM and will take effect after the system rebooted. The setup uses a menu interface to allow the user to configure their system and the features are briefly listed as follow.

Press [F7] key for Boot Menu.

NOTE : The drivers, BIOS and utilities bundled in the support DVD may vary by models and are subject to change without notice.

4.2 BIOS Setup Menu

Once you enter the BIOS Setup Utility, the Main Menu will appear on the screen. Select the tags to enter the other menus.

Main Menu

Show system overview about memory size, main HDD or ODD and setting of system time and date.

Advanced Menu

To select the XD feature enable or disable XD feature only work with Intel platform + Windows.

Security Menu

Install or clear the password settings for supervisor and user.

Boot Menu

Configure Settings during System Boot.

EXIT Menu

Save or discard the changes before leaving the BIOS Setup Menu.

4.2.1 Main Menu

Aptio Setup Utility -	- Copyright (C) 2016 American Megatrends, Inc.
Main Advanced Security Boot Ex	Kit
System Information	
System Time	[11:37:02]
System Date	[Wed 01/09/2109]
BIOS Version	B.0.07
EC Version	0.15.00
Build Date and Time	11/09/2016 15:56:24
Manufacturer Name	To be filled by O.E.M.
Product Name	To be filled by O.E.M.
Serial Number	To be filled by O.E.M.
Asset Tag	To be filled by O.E.M.
UUID Number	00020003000400050006000700080009
Ethernet MAC Address	00:00:00:00:00:00
Processor Processor Type Processor Speed	Intel(R) Core(TM) i7–7700HQ CPU @ 2.80GHz 2800 MHz
Total Memory	16384 MB
Memory Frequency	2400 MHz
ME Information ME FW Version ME Firmware SKU	11.6.0.1136 Consumer SKU
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· System Time

This item allows you to set the system time. There is a small internal (CMOS) battery which is designed to maintain your system clock. It is designed to maintain time even when the PC is powered down or in sleep mode. The time format is [hour:minute:second].

Use [+] or [-] to configure system Time.

· System Date

This item allows you to set the system date. The date format is [day:month:date:year].

Use [ENTER], [TAB] or [SHIFT-TAB] to select a field.

Day	Day of the week, from Sun to Sat, which is determined by BIOS (read-only).
Month (Month)	The month from 01 (January) to 12 (December).
Date (Date)	The date from 01 to 31.
Year (Year)	The year can be adjusted by users.

\cdot Total Memory

This allows you to see the total amount of memory.

4.2.2 Advanced Menu

Aptio Setup Utility – Main Advanced Security Boot Exi	Copyright (C) 2016 American t	Megatrends, Inc.
Advanced Setting		If select UEFI OS,it will support UEFI Mode compatible
OS Support	[UEFI OS]	OS, otherwise, when select
Wake on LAN	[Enabled]	Legacy OS, it can support
Cold Boot Keep Devices Status	[Enabled]	Legacy mode OS
SATA Device		
SATA Mode Selection Serial ATA Port 0	[AHCI] Empty	
Serial ATA Port 1	Empty	
Serial ATA Port 2	Empty	
Serial ATA Port 3	Empty	
NVMe Device		↔: Select Screen
NVMe Controller 1 NVMe Controller 2	Empty Empty	î∔: Select Item Enter: Select
NVME CONTROLLER 2	Empty	+/-: Change Opt.
Intel Virtualization Technology	[Enabled]	F1: General Help
		F2: Previous Values F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
Version 2.18.1263. Co	opyright (C) 2016 American M	egatrends, Inc.

• Wake on LAN

Enable/Disable

integrated LAN to wake the system.

• Serial ATA HDD

It will show AHCI SATA HDD info.

NVMe Device
 It will show NVMe Device info.

· Intel Virtualization Technology

When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.

 \cdot RAID mode reminder

Please update strip size in BIOS to 128K in order for RAID to optimize performance.

4.2.3 Security Menu

Aptio Setup Utility Main Advanced Security Boot (– Copyright (C) 2016 Americ Exit	can Megatrends, Inc.
Security Settings		Set Setup Administrator Password
Access Level Administrator Password User Password Change Administrator Password	Administrator Not Installed Not Installed	rassword
Change User Password Password Login Control	(Both)	
Secure Boot System Hode	Active User	
Secure Boot Delete all Secure Boot variables	[Enabled]	14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.18.1263.	Copyright (C) 2016 American	n Wegatrends, Inc.

· Change Administrator Password

When this item is selected, a message box shall appear on the screen as below:

Enter New Password

Type a maximum of 20-digit password and press [Enter].

The password typed now will replace any previously set password from CMOS memory. You may also press [ESC] to abandon new password setting. It is extremely important to keep record for any BIOS password which is set as it can not be reset even with the removal of a CMOS battery for the security of your PC. Select Change User Password to give or to abandon password setting same as Change Administrator Password item above.

Note that Administrator Password field allows users to enter and change the settings of the BIOS SETUP UTILITY, while User Password field only allows users to enter the BIOS SETUP UTILITY without having the authorization to make any change.

The Password Check item is used to specify the type of BIOS password protection that is implemented.

To clear a set Administrator Password/ User Password, just press [Enter] under Change Administrator Password/ Change User Password field when you are prompted to enter the password. A message box will pop up confirming password will be disabled. Once the password is disabled, the system will boot and user can enter setup without entering password.

4.2.4 Boot Menu

Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc. Main Advanced Security <mark>Boot</mark> Exit		
Boot Configuration		Enables/Disables LAN Remote Boot option
LAN Remote Boot	[Disabled]	
Boot Option Priorities		
Boot Option #1	[Hard Disk:Windows Boot Manager]	
Boot Option #2	[USB Key]	
Boot Option #3	[CD/DVD]	
Boot Option #4	[Network]	
Boot Option #5	[USB Hard Disk: SanDisk Extreme]	
Boot Option #6	[USB_CD/DVD]	
Boot Option #7	[USB Floppy]	
▶ UEFI Hard Disk Drive BBS Priorities		++: Select Screen
UEFI USB Hard Disk Drive BBS Priorities		↑↓: Select Item
		Enter: Select
		+/-: Change Opt.
		F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit
Version 2.16.1	242. Copyright (C) 2013 American Megatrend	s, Inc.

- Boot Configuration
 Configure Settings during System Boot.
- · LAN Remote Boot [Disable]: Boot from LAN or not.
- Set Boot Priority (1st/2nd/3rd/..... Boot)
 Specifies the boot sequence from the available devices.
 A device enclosed in parenthesis has been disabled in the corresponding type menu.
- Hard Disk Drive / USB HardDisk Drive Specifies the Boot Device Priority sequence.

4.2.5 Exit Menu

Aptio Setup Utility – Copyright (C) 2013 American Megatrends, Inc. Main Advanced Security Boot <mark>Exit</mark>		
Save and Exit Option	Reset the system after saving the	
Save Changes and Reset	changes.	
Discard Changes and Exit		
Restore Defaults		
	++: Select Screen	
	↑↓: Select Item Enter: Select	
	+/-: Change Opt. F1: General Help	
	F2: Previous Values	
	F3: Optimized Defaults F4: Save & Exit	
	ESC: Exit	
Version 2.16.1242. Copyright (C) 2013 American Mega	atrends, inc.	

· Save Changes and Reset

Exit system setup after saving the changes.F4 key can be used for this operation.

· Discard Changes and Exit

Exit system setup without saving any changes. ESC key can be used for this operation.

· Restore Defaults

Restore/Load Defaults values for all the setup options. F3 key can be used for this operation.