



ELUKTRONICS

User Manual

Eluktronics Mech-17 G1Rx

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

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Chapter 1

Preface

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



The unit can be operated at an ambient temperature of max. 35°C (95°F). Do not subject it to temperatures below 5°C (41°F) or above 40°C (104 °F).

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.



PREVENTION OF HEARING LOSS



CAUTION: Listening to music at high volume levels and for extended durations can damage one's hearing. In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels. Headsets should comply with EN 50332-2 requirements.

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.
- 2** 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.
- 3** To keep your computer in prime operating condition, protect your work area from direct sunlight.
- 4** Do NOT expose to or use near liquid, rain, or moisture. During electrical storms, it is suggested not to use ethernet (hard wired internet) and to ensure your AC adapter is connected to a surge protector.
- 5** Do not use or expose this device around magnetic fields as magnetic interference may affect the performance of the device.

1.3 Manufacturer Contact Info



If you have any questions which are not addressed in this manual or need assistance with anything regarding your new Eluktronics laptop, please contact our technical support staff.

Eluktronics can be contacted toll-free at 1-888-552-0750 (302-380-3242 local). Our hours of operation are as follows:

Monday-Thursday: 9AM-6PM EST
Friday: 9AM-5PM EST

For after hours assistance, please contact us at Support@Eluktronics.com.

*Holiday closures and hours of operation are subject to change.

1.4 Release History

Version	Date	Revision
1.0	01/2019	Initial release
1.1	09/2019	Limited Edition Eluktronics Light-up Logo

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. Please read this manual carefully before using your notebook.

· Physical Characteristic

■ Dimensions

395.7*260.8* 27.45mm

2.5kg +/- 5%

· CPU

■ Support Processor

CFL-H & CFL-RH (Intel 8th & 9th generation Coffee Lake H series)

· GPU

■ Supported Graphics Card Options

NVIDIA GTX 1660 Ti Max-P, RTX 2060 Max-P, RTX 2070 Max-P, RTX 2080 Max-Q

· Memory

■ RAM

DDR4 2400 or 2666MHz so-dimm

· I/O Port

DC-in	x 1
USB	USB 3.1 X 2 (Gen1) USB type C 3.1 X 1 (Gen1) USB 2.0 X 1
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

1.Two Built-in Speakers (Optional :Subwoofer)

*Speaker : 2W/each

*Subwoofer : 2W/each

2.Digital Microphone support

· Input

■ Keyboard

Mechanical KB with per-key RGB backlighting support

■ Pointing Device

Touch pad 130.0*72.5mm +/- 0.15mm

· Display

■ LCD

17.3" Narrow border, FHD, 16:9, 60Hz or optional 144Hz

· Communication Port

■ LAN

*Supports 10/100/1000 Mb/Sec

*DSM (Deep sleep mode) support

■ Wireless LAN

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

· Webcam

■ HD Webcam or optional IR Camera

HD Camera w/ D-MIC*1

IR Camera w/ D-MIC*2

· Storage

■ HDD

7mm height ; 2.5"; SATA (DOES NOT SUPPORT THICKER THAN 7MM)

■ SSD:

*2 Slots

*M.2 2280, PCIE/SATA

SATA+PCIE3.0 X4 or X2(support NVMe)

PCIE 3.0 X4 or X2(support NVMe)

*RAID 0/1 Support

· Power

■ AC Adapter

Automatic Voltage adjustment between 100 and 240V AC 50/60Hz, 180 Watts (19.5V/9.23A), 3 Pins or optional 230 Watts (19.5V/11.8A), 3 Pins

*Varies by graphics card selection.

■ Battery

Li-polymer Battery, SW Gas Gauge IC, soft pack,
3 cells (3S1P 4100mAh) 46.74 Wh

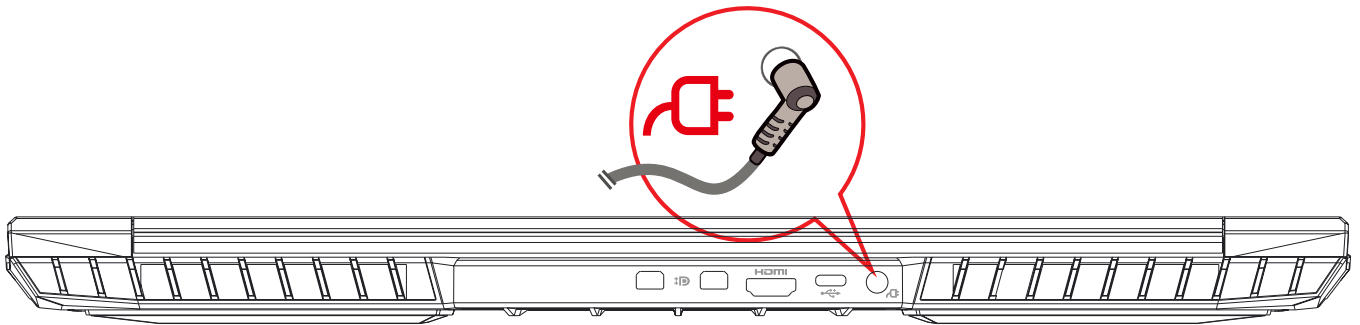
Optional 4 cells (4S1P 4100mAh) 62.32 Wh



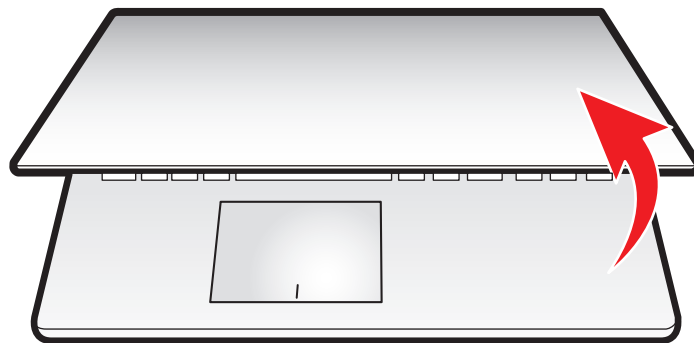
*CAUTION: The power supply included with your PC is the lowest wattage your system can safely utilize. Use of a lower wattage adapter will cause damage and would not be covered under warranty.

2.2 Preparing your Computer

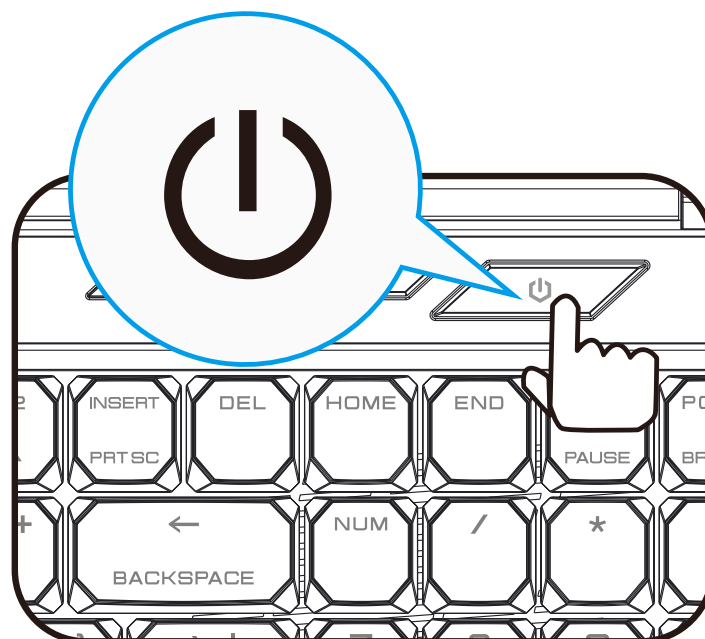
- A** Connect the AC adapter's DC output plug to the DC IN jack.



- B** The display panel can be opened to a wide range of angles for optimal viewing. Do not over extend the display to prevent damage.



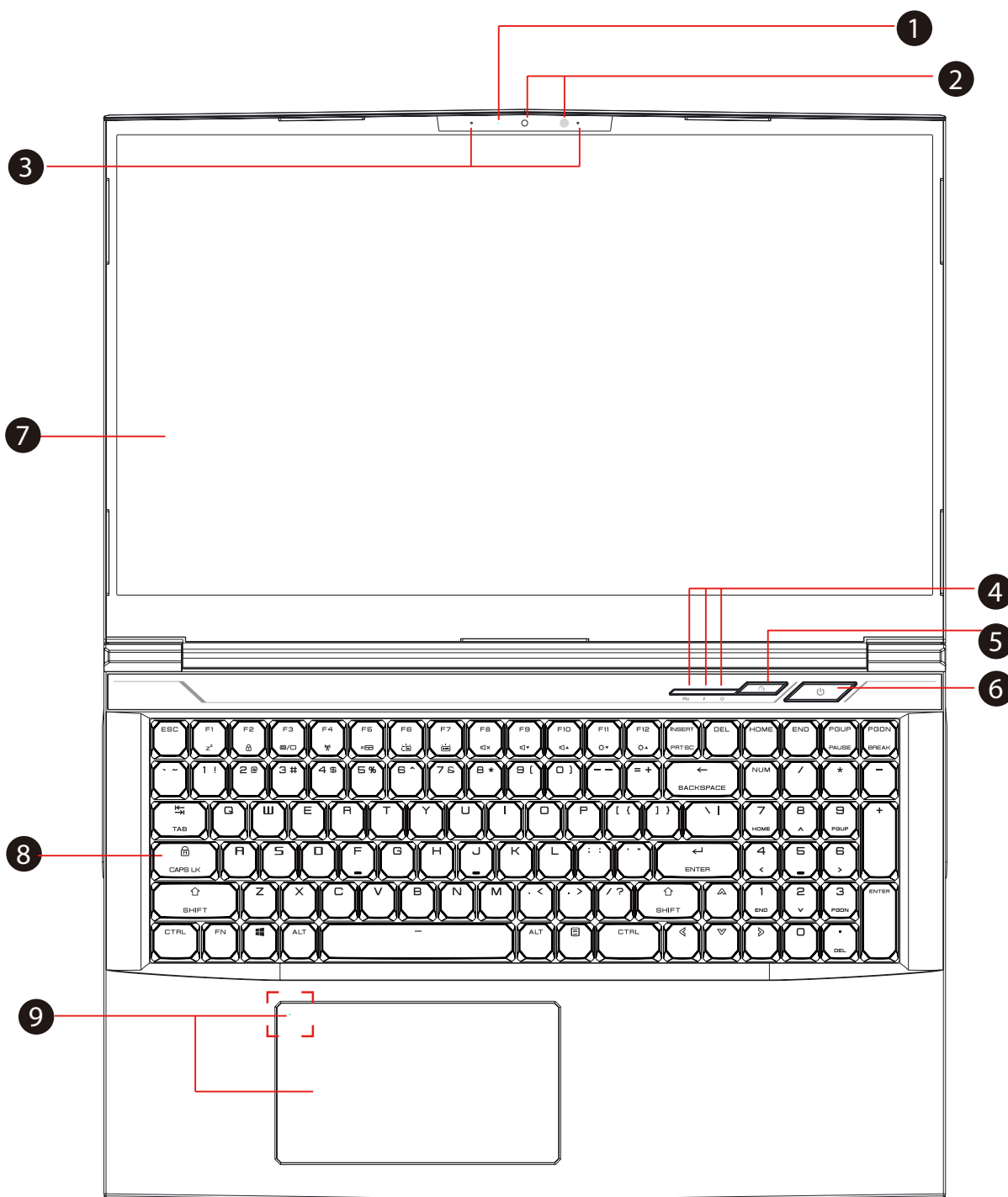
- C** Press the power button to turn on your notebook computer.



2.3 Product Overview

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

Top-Open View



1 **Camera Status LED**

When this status LED is illuminated, the camera is powered on.

2 **Camera**

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

Infrared capability for facial recognition (optional)

Can be used to identify and authenticate user to unlock your notebook and other security functions.

Microphone

3 **Built-in microphone.**

4 **Caps Lock Status LED**

Default: ON (Red)

Charging & Battery indicator

Charging(Power ON): Red

Charging(Power Off): Red

Battery Low (<6%): Red (3 Sec/Cycle)

Charging finish: Off

Power off: OFF

Power indicator

Power ON: Red

Suspend: Red, Slow / Smooth, Blinking (3Sec/Cycle)

Power Off: OFF



Tip: When you are not using the computer, keep the LCD-screen closed to protect it from dust.

- 5 **Office/Game Mode Switch** This mode toggles the power of your PC to provide higher levels of performance or a longer lasting battery life.

Office Mode = Longer Battery Life / Game mode = Higher Performance

6 **Power Button**

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

Holding the power button down for five seconds performs a hard shutdown.

7 **LCD screen**

This is the display of your notebook computer.

8 **Keyboard**

Mechanical keyboard

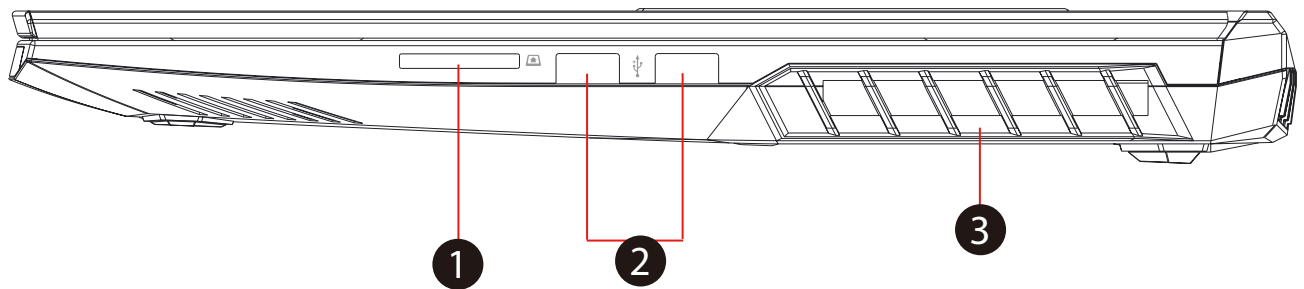
9 **Touchpad/Click pad**

Touch-sensitive pointing device which functions like the mouse.

Touchpad LED indicator/ Touchpad switch

(Please refer to P31)

Right Side View



1 2 in 1 Card Reader

Accepts memory cards.

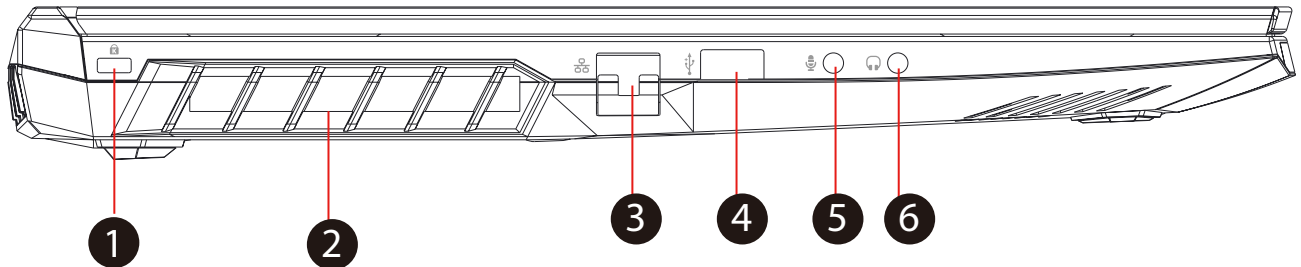
2 USB Ports

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

3 Vents

The thermal vents are designed to cool the internal components and avoid overheating. Please do not block these vents.

Left Side View



1 Kensington® Lock Port

This slot is utilized to secure your system from theft with the proper hardware (sold separately)

2 Vents

The thermal vents are designed to cool the internal components and avoid overheating. Please do not block these vents.

3 Network Jack

This jack lets you connect to a LAN.

4 USB Ports

Connects an USB device.

(such as USB flash drive, keyboard or mouse) into this jack.

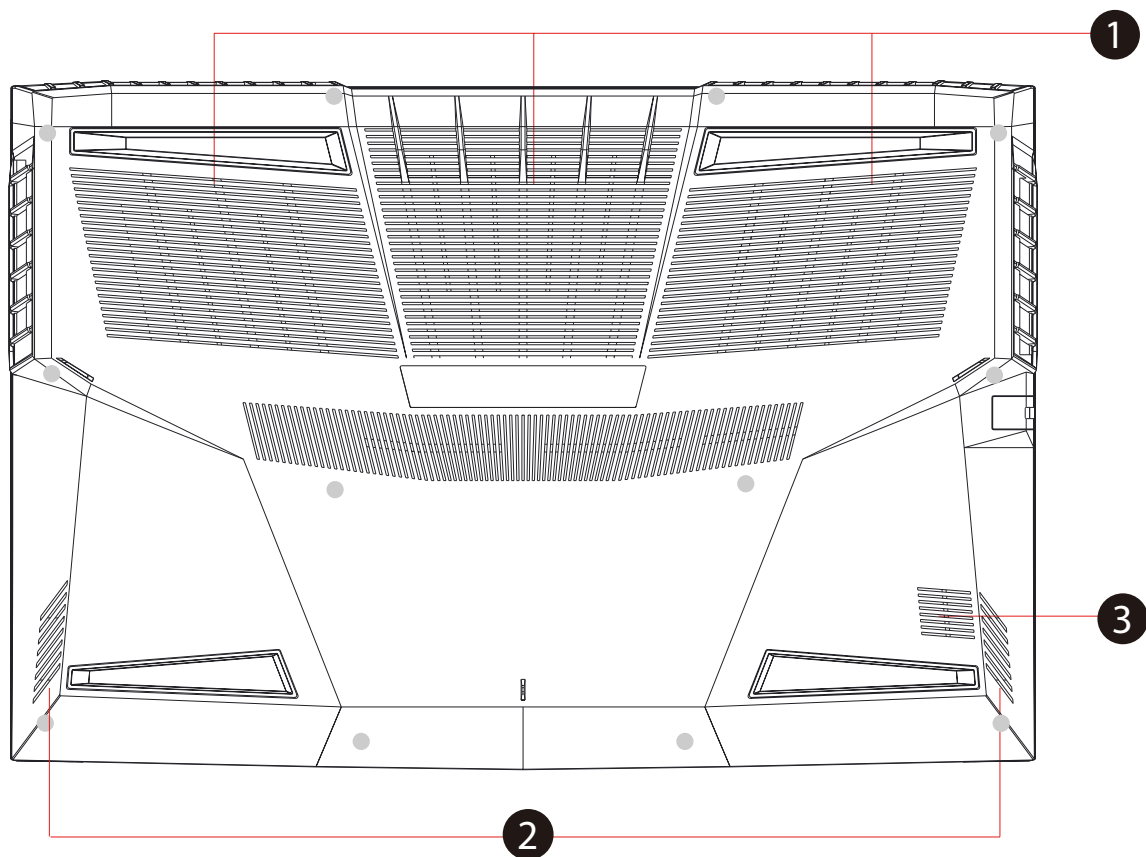
5 Mic In Jack

Connects amplified speakers, headphones or microphone into this jack.

6 Audio Out Jack

Connects amplified speakers, headphones or microphone into this jack.

Bottom Side View



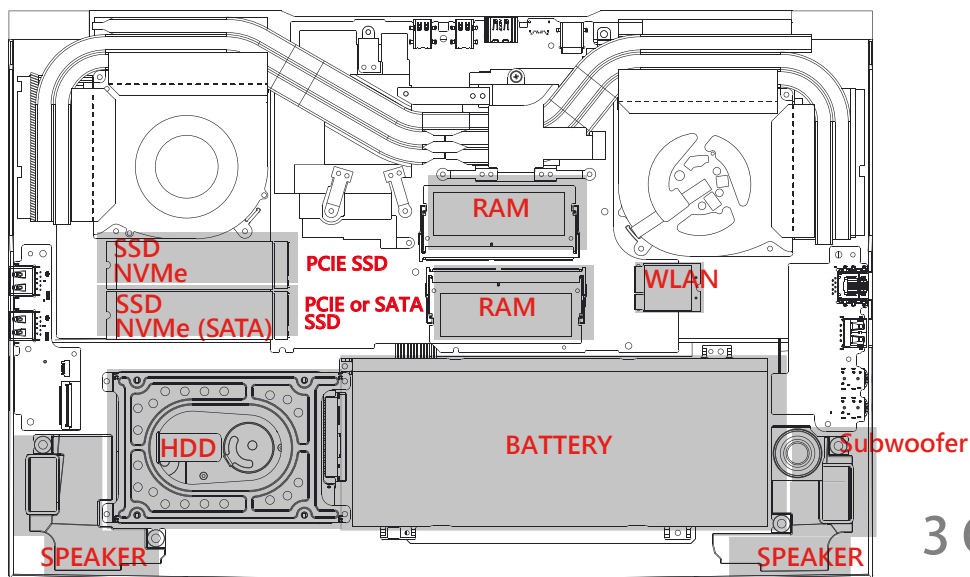
1 Vents

The thermal vents are designed to cool the internal components and avoid overheating. Please do not cover these vents.

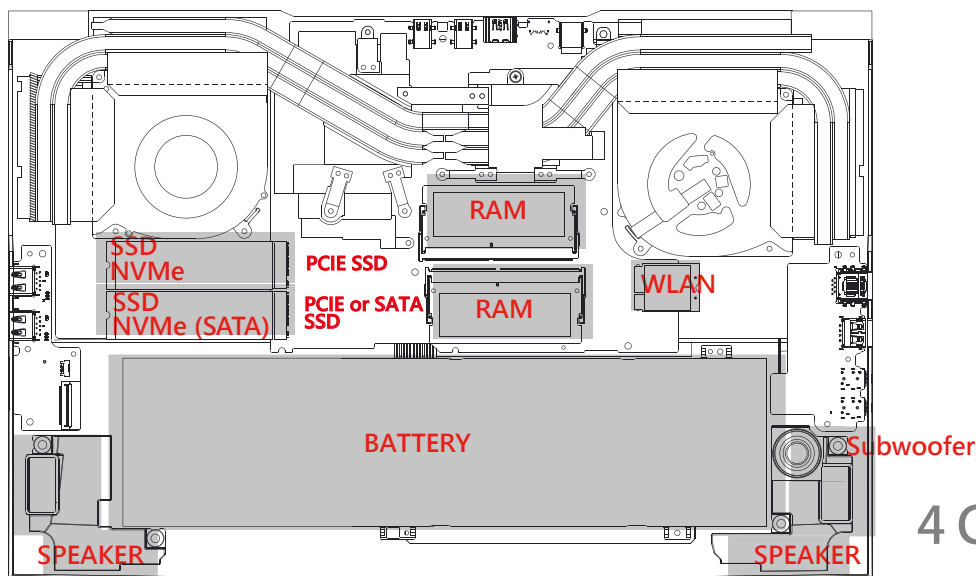
2 Speakers

3 Subwoofer

HDD / RAM / SSD / WLAN Compartment View



3 Cell Battery



4 Cell Battery
(Optional)

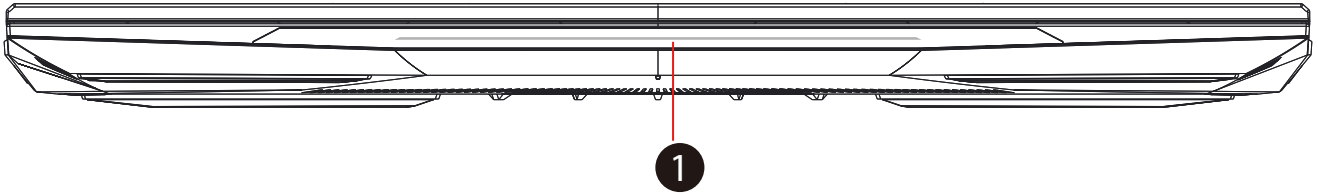


If you intend to upgrade components internally during the warranty, please contact technical support for assistance.



CAUTION: Do not put the computer on your lap or parts of the body for prolonged periods of time to avoid potential injury from heat.

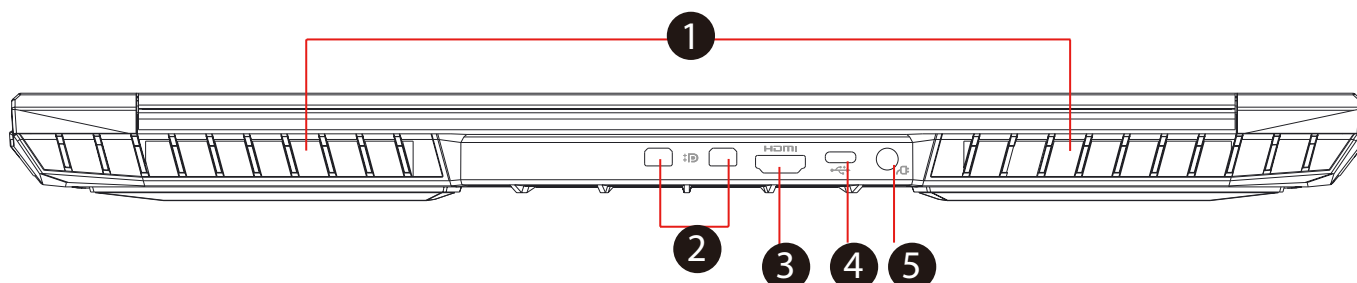
Front Side View



1 RGB Light Bar

Light bar - Customize settings within the included Gaming Center application.

Back Side View



1 Vents

The thermal vents are designed to cool the internal components and avoid overheating. Please do not cover these vents.

2 Mini DisplayPort

Supports high-definition digital video connections.

3 HDMI port

Connected to the screen, or home theater system.

4 USB Port (USB Type C)

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

5 Power Connector

Connects the AC adapter into this connector.



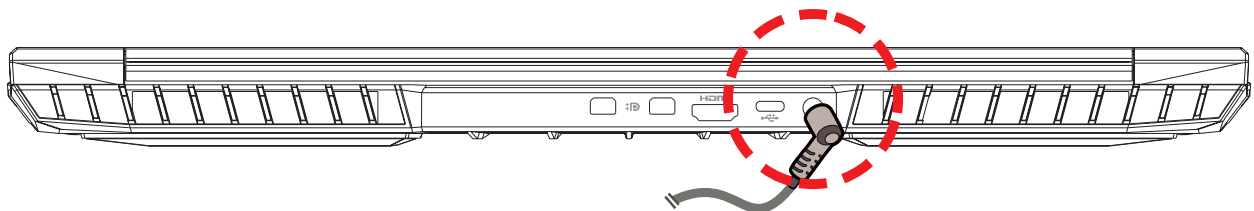
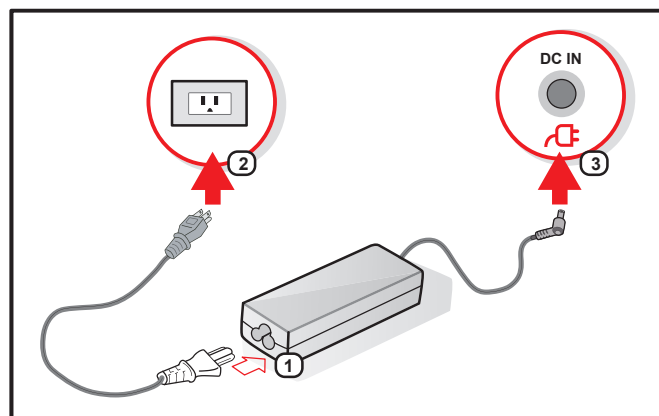
Chapter 3

Getting started

3.1 AC Adapter

It is strongly recommended to connect the AC adapter and use the AC power while using this notebook for your first use. Attach the AC adapter whenever you need to charge the battery. Operation while on AC power will provide the highest level of performance results. The battery should be fully charged for your first use before you remove the AC adapter and operate from battery power.

Use of an unauthorized adapter may damage the notebook or other devices attached to it and will not be covered under warranty.



CAUTION: The use of a third-party AC adapter, power cable or extension cord may result in damage to your notebook. Your notebook comes with its own genuine AC adapter and power cable. Damage resulting from said hardware will not be covered under warranty.

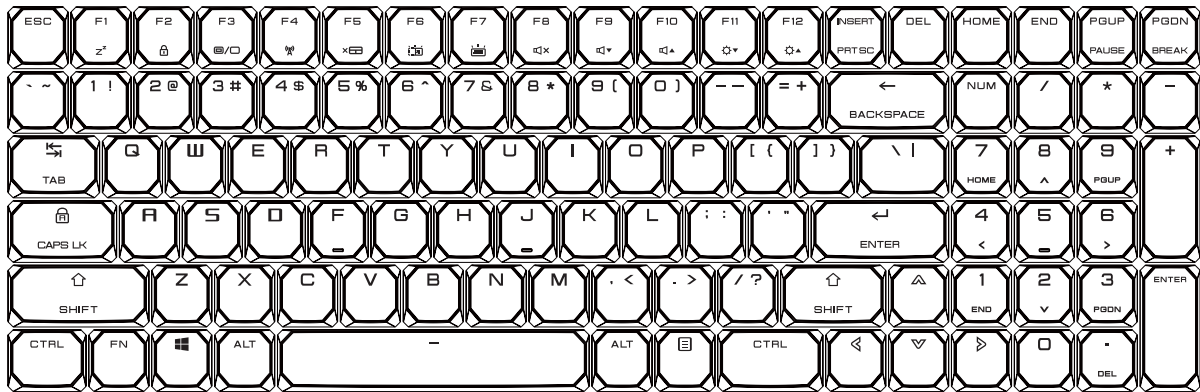


NOTE: The power adapter can become hot when in use. Please be sure the AC adapter is not covered with any materials. Keep it away from exposed parts of your body. The AC adapter appearance may vary depending on region.

3.2 Using the Keyboard

The following defines the colored hotkeys on the keyboard.

The colored commands can only be accessed by simultaneously holding the function key and the respective command key.



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 Hotkey Functions

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

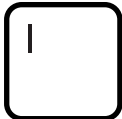
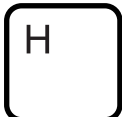
Function Keys

Keypad	Function Description
 +  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.
 +  RADIO On/Off:	Press this key combination (Fn+F4) to turn all wireless radios On/Off.
 +  Touchpad On/Off:	Press this key combination (Fn +F5) to On/Off Touchpad mode.

Function Keys

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

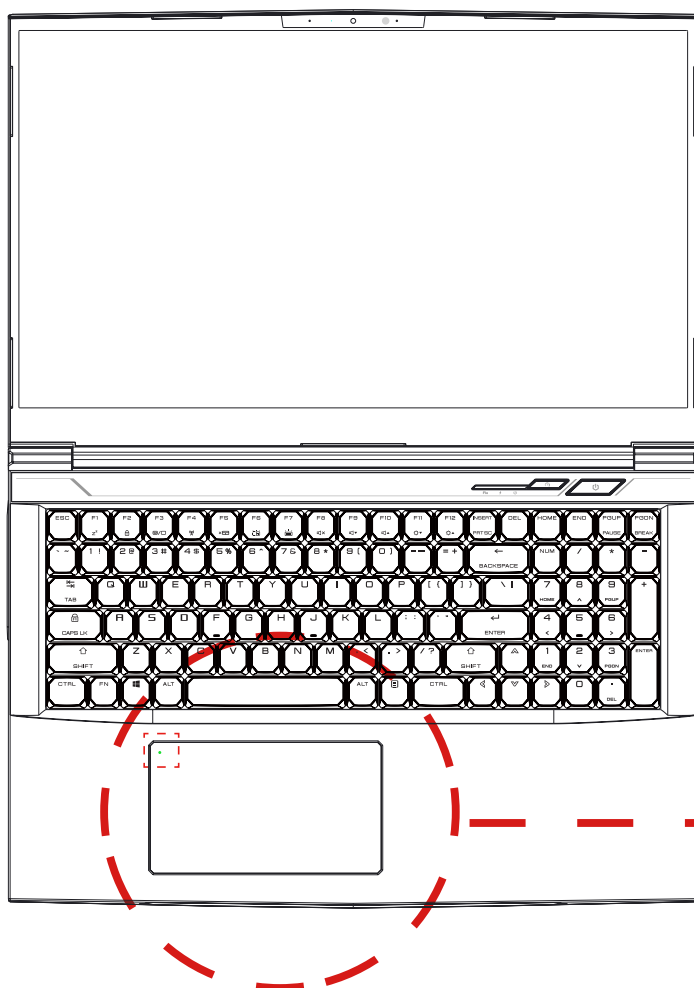
Function Keys

Keypad	Function Description
 +  Search Charm : (Optional)	Press this key combination (Windows logo key+Q) to open the search charm and search apps in Windows 10.
 +  Settings Charm : (Optional)	Press this key combination (Windows logo key+I) to open the settings charm in Windows 10.
 +  Share Charm : (Optional)	Press this key combination (Windows logo key+H) to open the share charm in Windows 10.
 +  Devices Charm : (Optional)	Press this key combination (Windows logo key+K) to open the devices charm in Windows 10.

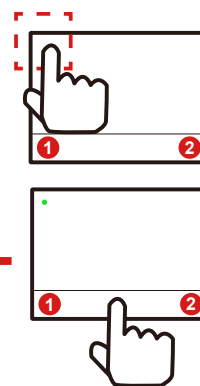
3.3 Using the touchpad / clickpad

The touchpad / clickpad is a rectangular electronic panel located just below your keyboard. Click twice within the 15x15 mm left corner to enable/disable (Green light when disabled) touchpad functionality. You can use the static-sensitive 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.



Click twice to enable/disable (Green light when disabled) touchpad functionality



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 to customize features.
- You want to reload the default BIOS settings.

4.1.2 How to Access BIOS Setup

To access the BIOS Setup Utility, turn on the notebook and press the [Del] key or [F2] 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.

The screen snapshots and setting options in this chapter are for reference only. The actual setting screens and options on your notebook model may be different because of BIOS update. The setup function will only be initiated by pressing [Del] or [F2] key during POST. Changing options in the BIOS allows the user to change some settings and configuration to their preference. The changed values will save in the NVRAM and will take effect after the system is rebooted. The setup uses a menu interface to allow the user to configure their system and the features are briefly listed below.

Press [F7] key during the boot [POST] sequence to access the Boot Menu.



NOTE: The drivers, BIOS and utilities included with your system may vary at time of production 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

Shows your system overview about memory size, main HDD, SSD or ODD (if applicable) 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.

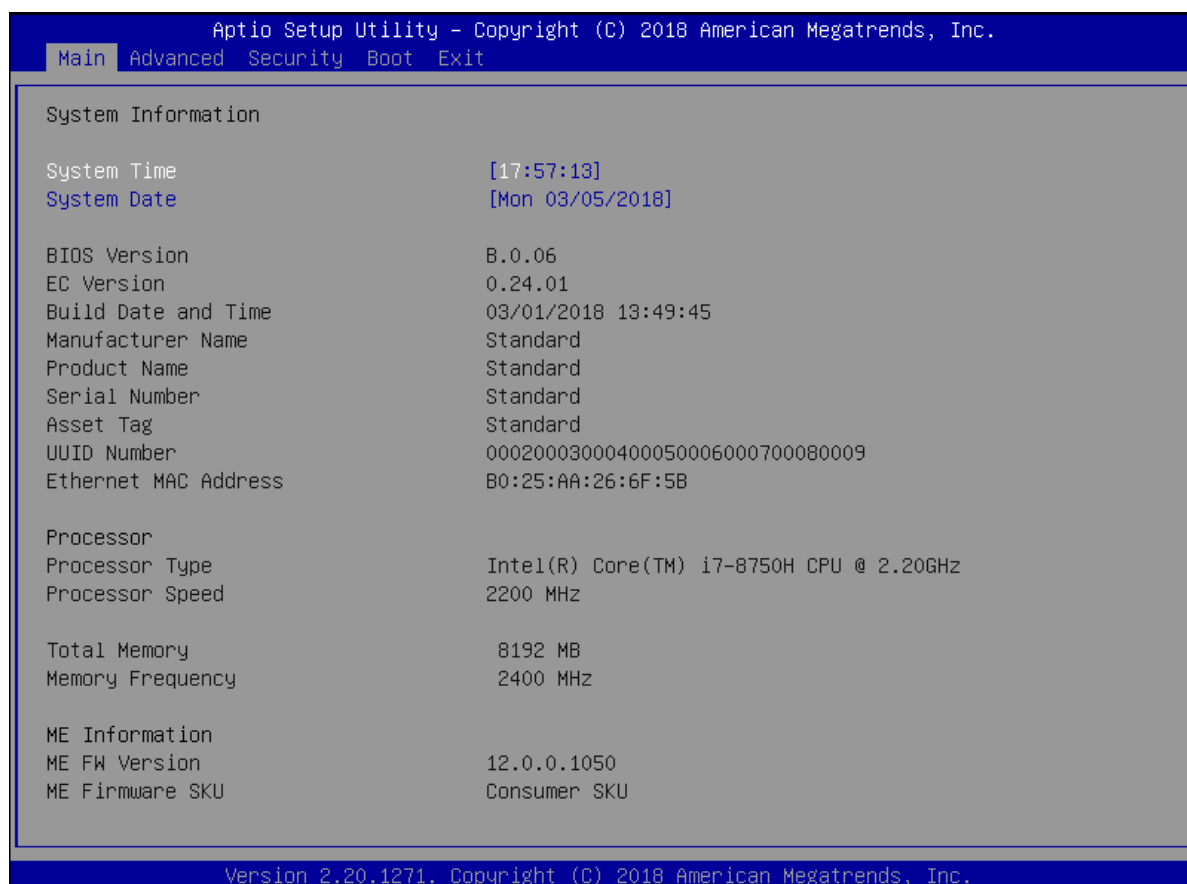
Boot Menu

Configure Settings during System Boot.

EXIT Menu

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

4.2.1 Main Menu



- 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].

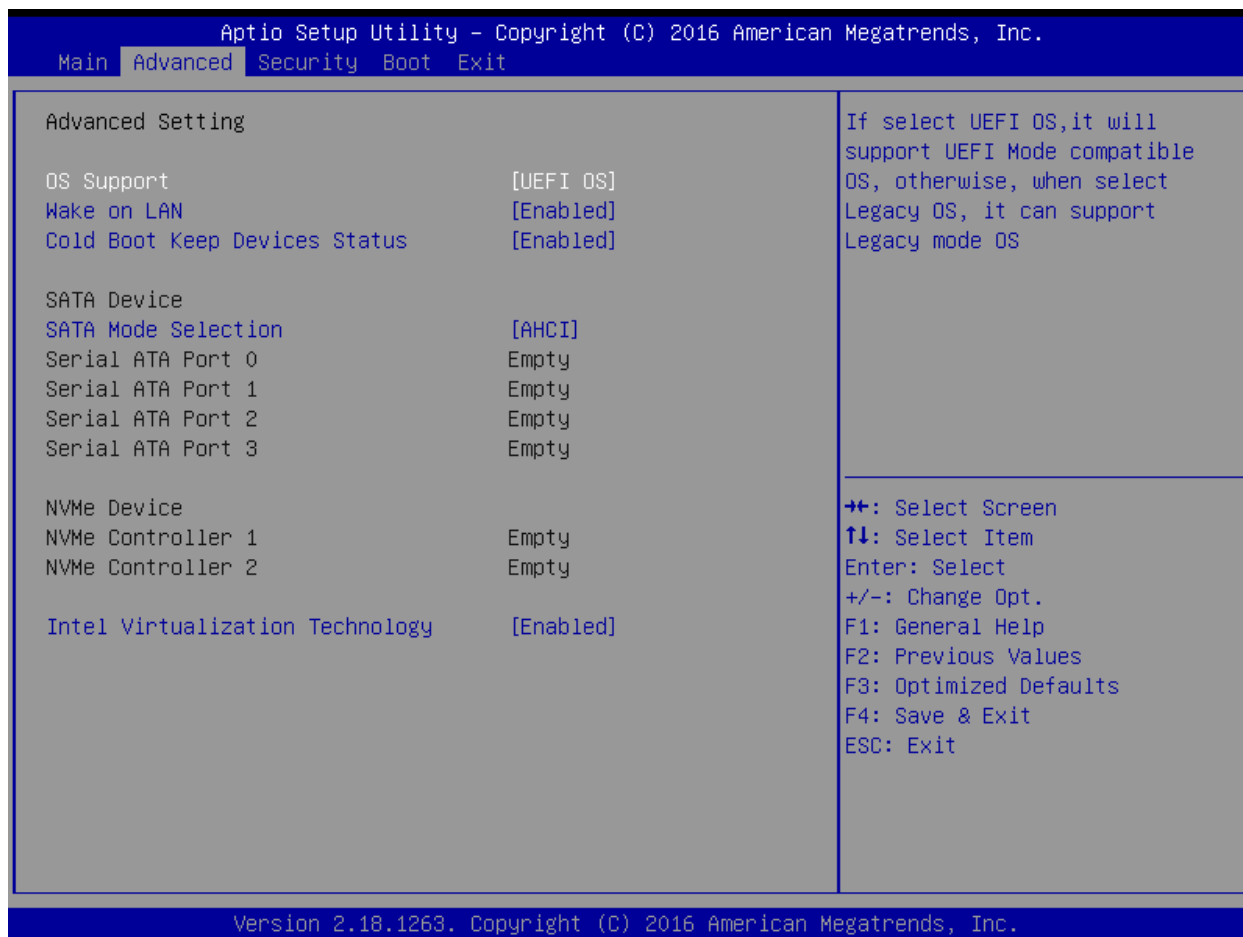
Use [ENTER], [TAB] or [SHIFT-TAB] to select a field.

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.

- Total Memory

This allows you to see the total amount of memory (RAM).

4.2.2 Advanced Menu



- Wake on LAN

Enable/Disable

integrated LAN to wake your system.

- Serial ATA HDD

This will show AHCI SATA HDD info.

- NVMe Device

This will show your NVMe Device info.

- Intel Virtualization Technology

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

- RAID mode reminder

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

4.2.3 Security Menu



- 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.

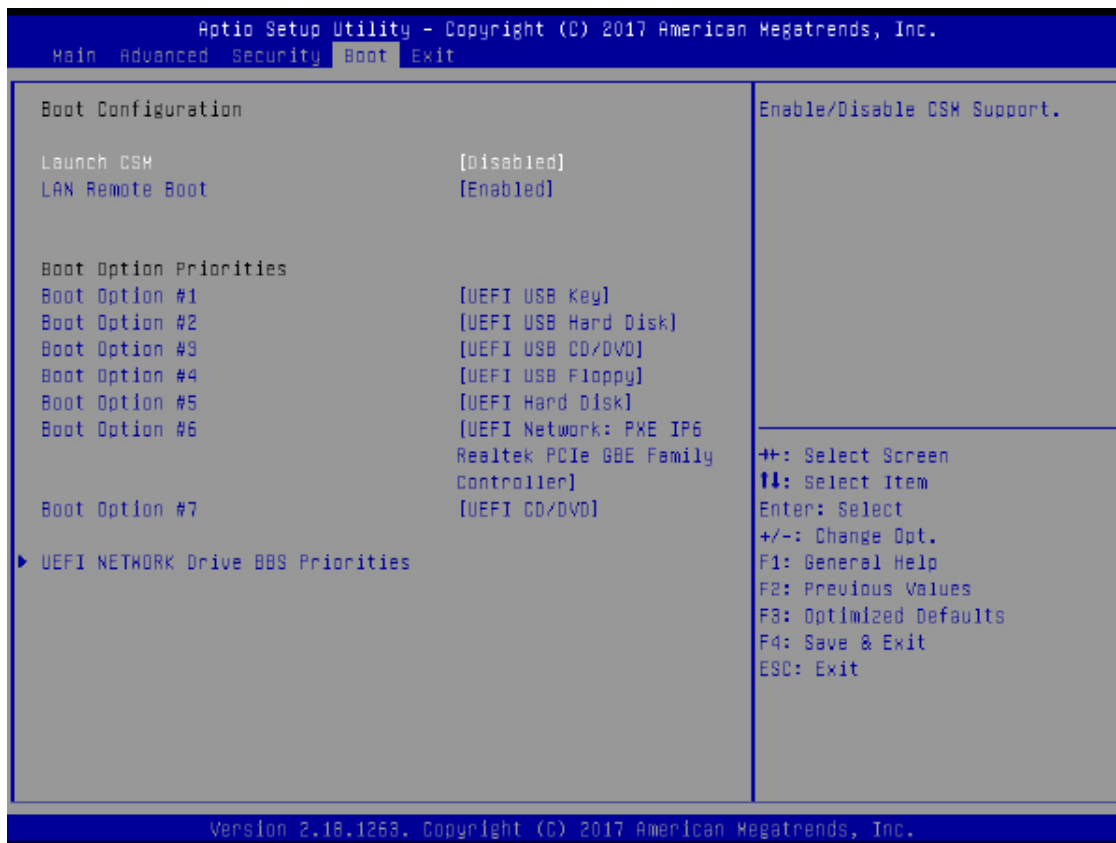
Note that Administrator Password field allows users to enter and change the settings of the BIOS SETUP UTILITY, while User Password field only allows users to enter the BIOS SETUP UTILITY without having the authorization to make any change.

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.

CAUTION: It is strongly advised to keep an external record of your BIOS password [ex: Writing the password (including case sensitivity) down on a piece of paper and storing in a safe]. If you are unable to log in to your BIOS because of a password you have forgotten, there is not a method to override for security purposes.

4.2.4 Boot Menu



- **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 Hard Disk Drive**
Specifies the Boot Device Priority sequence.

4.2.5 Exit Menu



- **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.