

USER MANUAL

SC443

SC444

About this Concise User Guide

This quick guide is a brief introduction to getting your system started. This is a supplement, and not a substitute for the expanded English language *User's Manual* in *Adobe Acrobat* format on the *Device Drivers & Utilities + User's Manual* disc supplied with your computer. This disc also contains the drivers and utilities necessary for the proper operation of the computer (**Note:** The company reserves the right to revise this publication or to change its contents without notice).

Some or all of the computer's features may already have been setup. If they aren't, or you are planning to re-configure (or re-install) portions of the system, refer to the expanded *User's Manual*. The *Device Drivers & Utilities + User's Manual* disc does not contain an operating system.

Regulatory and Safety Information

Please pay careful attention to the full regulatory notices and safety information contained in the expanded *User's Manual* on the *Device Drivers & Utilities + User's Manual* disc.

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Trademarks

Intel is a trademark/registered trademark of Intel Corporation.

Windows is a registered trademark of Microsoft Corporation.



FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Instructions for Care and Operation

The computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

- **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.
- **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
- **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
- **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost.

Servicing

Do not attempt to service the computer yourself. Doing so may violate your warranty and expose you and the computer to electric shock. Refer all servicing to authorized service personnel. Unplug the computer from the power supply. Then refer servicing to qualified service personnel under any of the following conditions:

- When the power cord or AC/DC adapter is damaged or frayed.
- If the computer has been exposed to any liquids.
- If the computer does not work normally when you follow the operating instructions.
- If the computer has been dropped or damaged (do not touch the poisonous liquid if the panel breaks).
- If there is an unusual odor, heat or smoke coming from your computer.

Safety Information

- Only use an AC/DC adapter approved for use with this computer.
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- Make sure that your computer is completely powered off before putting it into a travel bag (or any such container).
- Before cleaning the computer, make sure it is disconnected from any external power supplies, peripherals and cables.
- Use a soft clean cloth to clean the computer, but do not apply cleaner directly to the computer. Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Note that in computer's featuring a raised electro-plated logo, the logo is covered by a protective adhesive. Due to general wear and tear, this adhesive may deteriorate over time and the exposed logo may develop sharp edges. Be careful when handling the computer in this case, and avoid touching the raised electro-plated logo. Avoid placing any other items in the carrying bag which may rub against the top of the computer during transport. If any such wear and tear develops contact your service center.

Polymer/Lithium-Ion Battery Precautions

Note the following information which is specific to Polymer/Lithium-Ion batteries only, and where applicable, this overrides the general battery precaution information.

- Polymer/Lithium-Ion batteries may experience a slight expansion or swelling, however this is part of the battery's safety mechanism and is not a cause for concern.
- Use proper handling procedures when using Polymer/Lithium-Ion batteries. Do not use Polymer/Lithium-Ion batteries in high ambient temperature environments, and do not store unused batteries for extended periods.
- If you are working in areas of low temperature use the AC/DC adapter to power the computer.



Battery Disposal & Caution

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

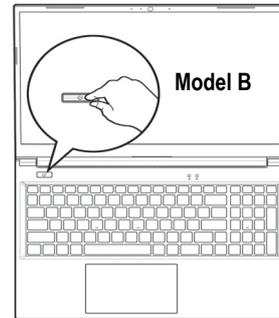
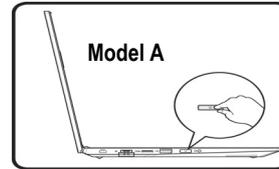
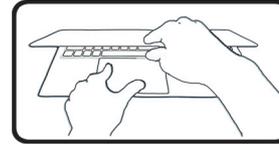
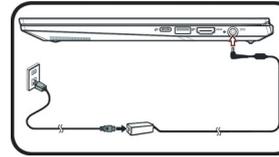
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

System Startup

1. Remove all packing materials.
2. Place the computer on a stable surface.
3. Securely attach any peripherals you want to use with the computer (e.g. keyboard and mouse) to their ports.
4. **When first setting up the computer use the following procedure** (as to safeguard the computer during shipping, the battery will be locked to not power the system until first connected to the AC/DC adapter and initially set up as below):
 - Attach the AC/DC adapter cord to the DC-In jack on the right of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter. The battery will now be unlocked.
5. Use one hand to raise the lid to a comfortable viewing angle (do not exceed 180 degrees); use the other hand (as illustrated in [Figure 1](#)) to support the base of the computer (**Note: Never** lift the computer by the lid).
6. Press the power button to turn the computer “on”.

System Software

Your computer may already come with system software pre-installed. Where this is not the case, or where you are re-configuring your computer for a different system, you will find this manual refers to *Microsoft Windows 10*.





Shut Down

Note that you should always shut your computer down by choosing the **Shut down** command in **Windows** (see below). This will help prevent hard disk or system problems.

1. Click the Start Menu icon .
2. Click the **Power** item .
3. Choose **Shut down** from the menu.

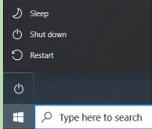
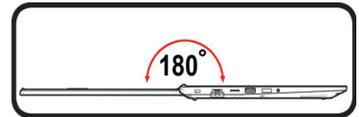



Figure 1 - Opening the Lid/Computer with AC/DC Adapter Plugged-In

System Map: Front View with Display Open (Model A)

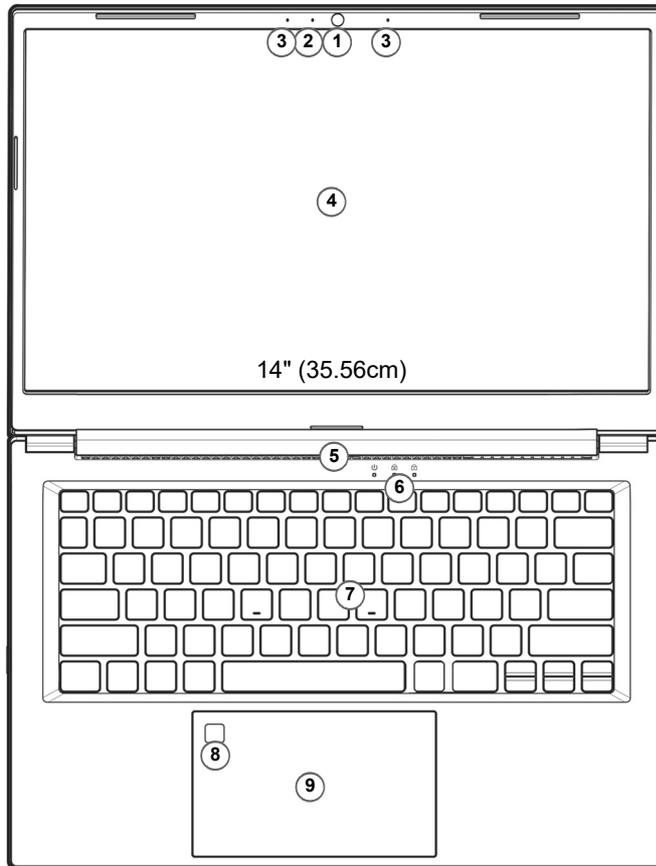
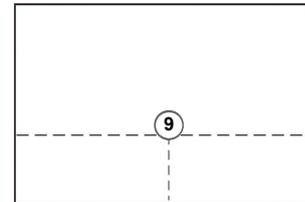


Figure 2
Front View with Display Open (Model A)

1. Webcam
2. *Camera LED
**When the camera is in use, the LED will be illuminated.*
3. Built-In Array Microphone
Or
(**Factory Option**) Built-In Microphone
4. Display
5. Vent
6. LED Indicators
7. Keyboard
8. (**Factory Option**) Fingerprint Sensor
9. Touchpad & Buttons



Note that the Touchpad and Buttons valid operational area is that indicated within the dotted lines above.



Overheating

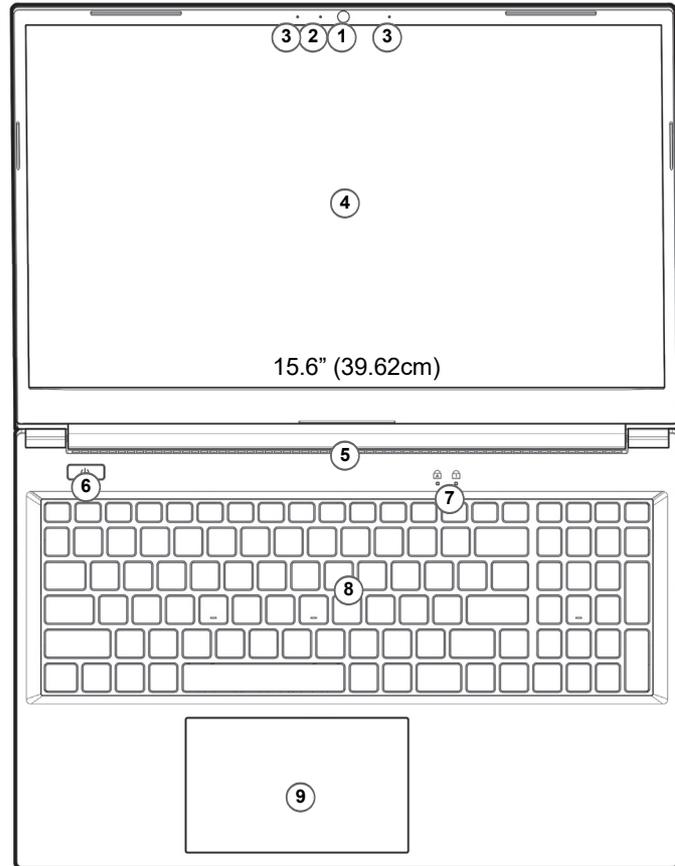
To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.

System Map: Front View with Display Open (Model B)

Figure 3

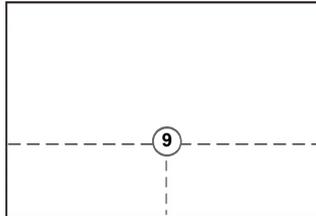
Front View with Display Open (Model B)

1. Webcam
2. *Camera LED
**When the camera is in use, the LED will be illuminated.*
3. Built-In Array Microphone
4. Display
5. Vent
6. Power Button
7. LED Indicators
8. Keyboard
9. Touchpad & Buttons



Overheating

To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.



Note that the Touchpad and Buttons valid operational area is that indicated within the dotted lines above.

LED Indicators

The LED indicators on the computer display helpful information about the current status of the computer.

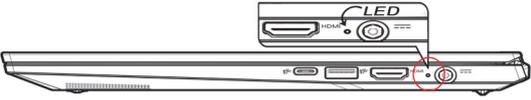
Icon	Color	Description
		
	OFF	The Computer is Off
	Blinking White*	The AC/DC Adapter is Plugged In and the Powered USB Port (Factory Option) is On*
	White	The Computer is On
	Blinking White	The Computer is in Sleep Mode
	White	Caps Lock Activated
	White	Number Lock (Numeric Keypad) Activated
		
Orange		The Battery is Charging
Green		The Battery is Fully Charged
Blinking Orange		The Battery Has Reached Critically Low Power Status

Table 1 - LED Indicators

✍️

***Powered USB Port (Factory Option)**

The powered USB 3.2 Gen 2 port (see [page 11](#)) may be toggled on /off by means of the **Fn + Power Button** key combination. When the powered USB port is on it will supply power (**for charging devices only, not for operating devices**) when the system is off but still powered by the AC/DC adapter plugged into a working outlet, or powered by the battery with a capacity level above 20% (this may not work with certain devices - see [page 26](#)).

Screen Rotation

The computer's LCD can be opened up to 180 degrees, and you can use the **Fn + R** key combination to fully rotate the screen. You can use this to rotate the screen to allow someone sitting facing you to view the screen if required.

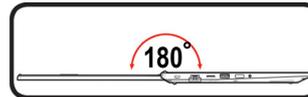


Figure 4 - LCD Panel Open to 180 degrees with Screen Rotated



Keyboard (Model A)

The keyboard has a numeric keypad for easy numeric data input. Pressing **Fn + Num Lk** turns on/off the numeric keypad. It also features function keys to allow you to change operational features instantly.



Figure 5 - Keyboard

(Factory Option) White-LED Keyboard

Refer to *White-LED Keyboard (Option - Model A Only)* on page 16. The keyboard illumination level may be adjusted, or turned off/on, by using the **Fn + F4** keys.

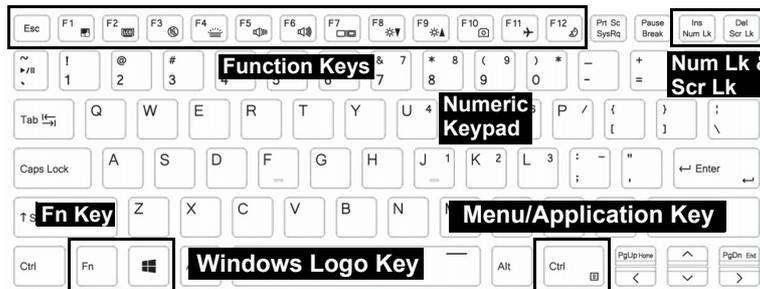


Figure 6 - (Factory Option) White-LED Keyboard

Keyboard (Model B)

The keyboard has a numeric keypad for easy numeric data input. Pressing **Num Lk** turns on/off the numeric keypad. It also features function keys to allow you to change operational features instantly.

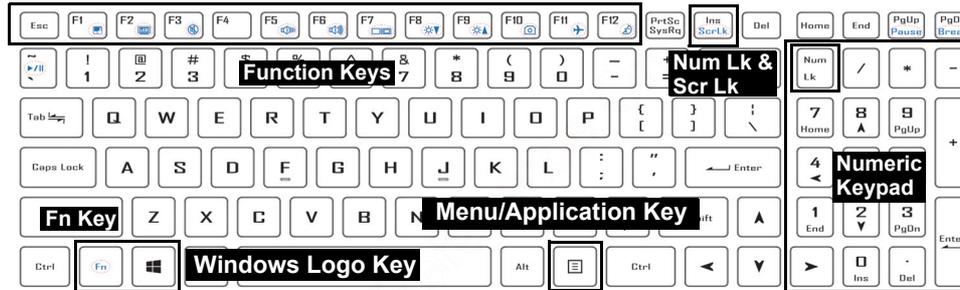


Figure 7 - Full-size Keyboard

(Factory Option) Multi-Color LED Keyboard

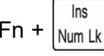
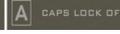
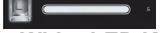
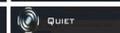
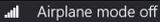
Refer to [Multi-Color LED Keyboard \(Option - Model B Only\)](#) on page 17.



Figure 8 - (Factory Option) Full-size Multi-Color LED Keyboard

Function Keys & Visual Indicators

The function keys (F1 - F12 etc.) will act as hot keys when pressed while the **Fn** key is held down. In addition to the basic function key combinations, some visual indicators are available when the Control Center driver is installed.

Keys	Function/Visual Indicators	Keys	Function/Visual Indicators
Fn + 	Play/Pause (in Audio/Video Programs)	Fn + 	Sleep Toggle
Fn + 	Touchpad Toggle  	 /Fn + 	Number Lock Toggle  
Fn + 	Turn Display Backlight Off (Press a key to or use Touchpad to turn on)	Fn +  / 	Scroll Lock Toggle  
Fn + 	Mute Toggle 		Caps Lock Toggle  
Fn + 	Toggle Keyboard Illumination/Adjust Brightness Level  (For White-LED Keyboards)	Fn + 	Control Center Toggle (see page 14)
Fn +  	Volume Decrease/Increase 	Fn + 	Fan Automatic Control/ Full Power  
Fn + 	Change Display Configuration (see page 19)	Fn + 	Rotate the Screen
Fn +  	Display Brightness Decrease/Increase 	Fn + 	Power Modes Toggle    
Fn + 	Camera Power Toggle  	Fn + Power Button	(Factory Option) Powered USB Port Power Toggle (see page 11)
Fn + 	Airplane Mode Toggle  	Table 2 - Function Keys & Visual Indicators	

System Map: Front, Left & Right Views (Model A)

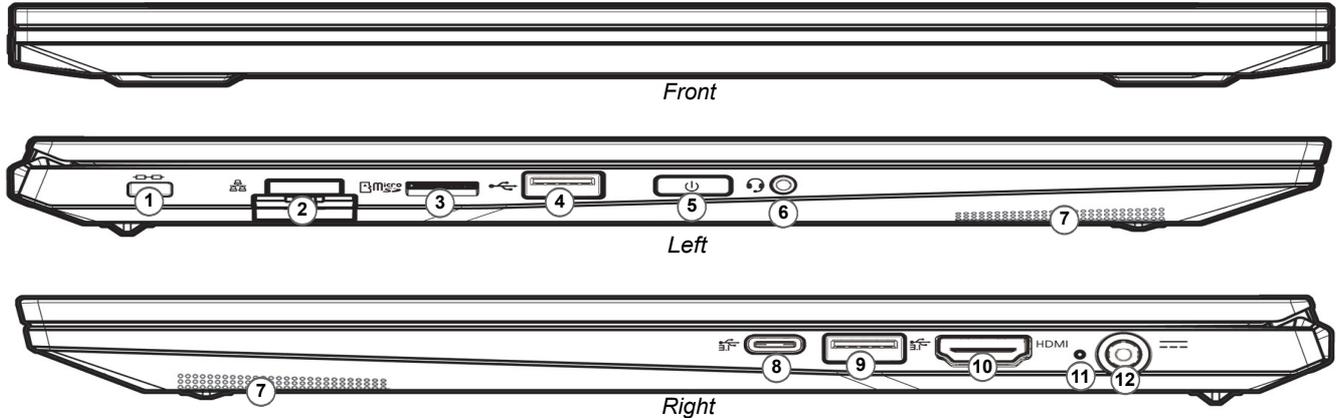
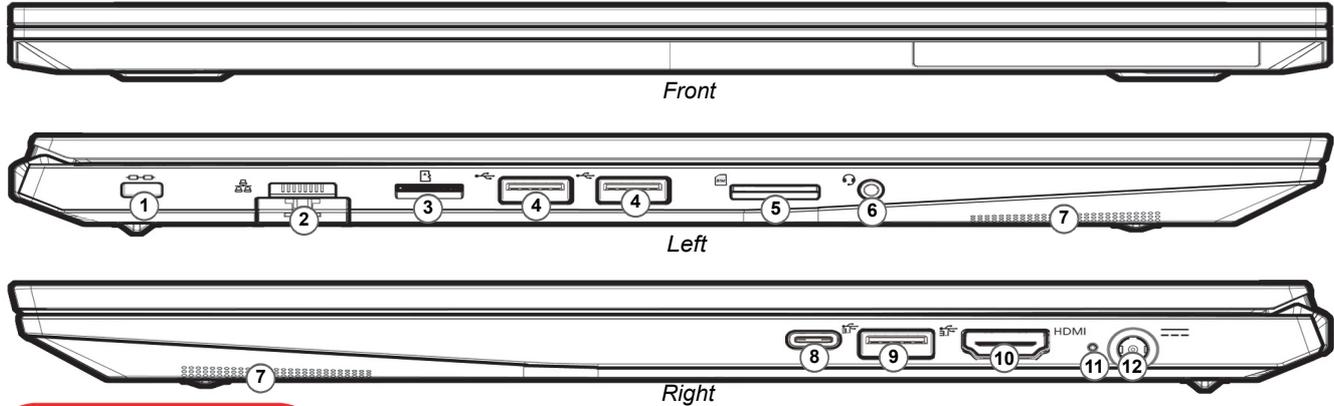


Figure 9 - Front, Left & Right Views (Model A)

1. Security Lock Slot
2. RJ-45 LAN Jack
3. MicroSD Card Reader
4. USB 2.0 Port
Or
(Factory Option) USB 3.1 Gen 1 Type-A Port
5. Power Button
6. 2-In-1 Audio Jack (Headphone / Microphone)
7. Speakers
8. USB 3.2 Gen 2 Type-C Port
Or
(Factory Option) USB 3.2 Gen 2 Type-C Port with DisplayPort and Power Delivery (DC-In)*
*This port allows you to use a third party adapter/power bank plugged into the port as a power supply. If you are using a power bank make sure that it complies with the USB-C PD (Power Delivery) standard specification (20V/45W - 20V/100W). If you are using a third party adapter, the rating of the adapter must be at least 20Volts, 2.25A (45 Watts) and it should be appropriately certified.
9. USB 3.2 Gen 2 Type-A Port
Or
(Factory Option) Powered USB 3.2 Gen 2 Type-A Port (see [page 26](#))
10. HDMI-Out Port
11. Battery Power LED Indicator
12. DC-In Jack

System Map: Front, Left & Right Views (Model B)



USIM Card Ejection

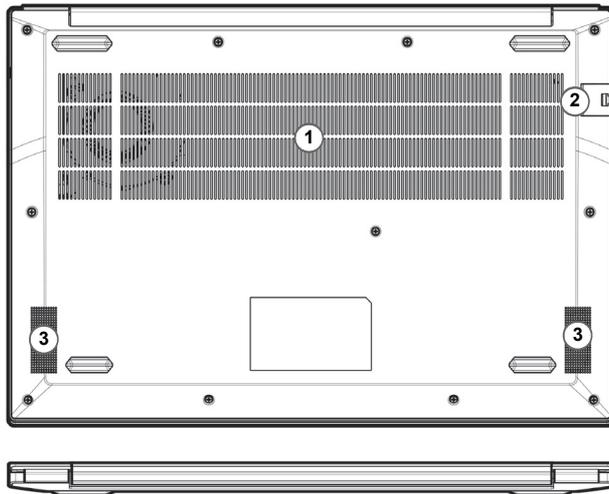
If you do eject the card while a 4G connection is ongoing, you will need to shut down the system, reinsert the USIM card, restart the system and then reestablish the 4G connection.

If you do eject the card while a 4G connection is ongoing, you will need to shut down the system, reinsert the USIM card, restart the system and then reestablish the 4G connection.

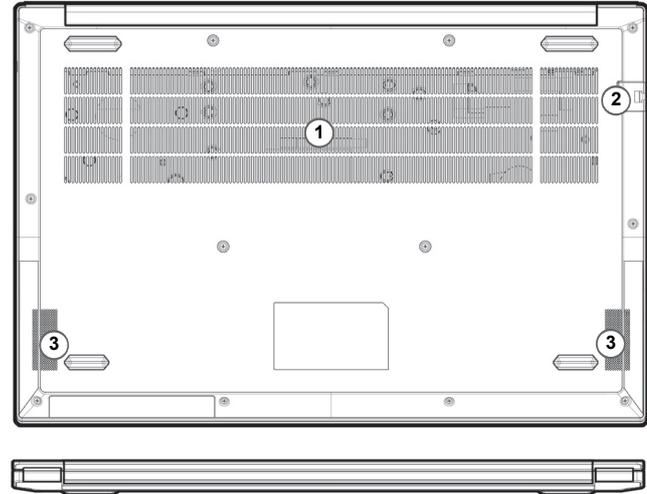
Figure 10 - Front, Left & Right Views (Model B)

1. Security Lock Slot
2. RJ-45 LAN Jack
3. MicroSD Card Reader
4. USB 2.0 Ports
5. **(Factory Option)** USIM Card Reader (for 4G USIM Cards)
6. 2-In-1 Audio Jack (Headphone / Microphone)
7. Speakers
8. USB 3.2 Gen 2 Type-C Port
Or **(Factory Option)** USB 3.2 Gen 2 Type-C Port with DisplayPort and Power Delivery (DC-In)*
*This port allows you to use a third party adapter/power bank plugged into the port as a power supply. If you are using a power bank make sure that it complies with the USB-C PD (Power Delivery) standard specification (20V/45W - 20V/100W). If you are using a third party adapter, the rating of the adapter must be at least 20Volts, 2.25A (45 Watts) and it should be appropriately certified.
9. USB 3.2 Gen 2 Type-A Port
Or **(Factory Option)** Powered USB 3.2 Gen 2 Type-A Port (see [page 26](#))
10. HDMI-Out Port
11. Battery Power LED Indicator
12. DC-In Jack

System Map: Bottom & Rear Views



Model A



Model B

Figure 11

Bottom & Rear Views

1. Vent
2. RJ-45 LAN Jack
3. Speakers



Bottom Cover Removal Warning

Do not remove any cover(s) and/or screw(s) for the purposes of device upgrade as this may violate the terms of your warranty. If you need to replace/remove the HDD/SSD/RAM etc., for any reason, please contact your distributor/supplier for further information.

Overheating

To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.

Control Center

Run the **Control Center** from the Start menu in *Windows* . You can also press the **Fn + Esc** key combination, or **double-click the icon**  in the **notification area of the taskbar** to access the **Control Center**. The **Control Center** provides quick access to **Power Modes**, **Fan settings** and **LED Keyboard** configuration (*for the optional LED keyboard*).



Figure 12 - Control Center

Note the **LED Keyboard** item will only appear for LED keyboards only.

Power Modes

Power Modes allows you to adjust the power mode by clicking the appropriate icon.



Figure 13 - Power Modes

- **Power Saving mode** saves battery life.
- **Quiet mode** focuses on reducing fan noise and will decrease both CPU and GPU power.
- **Entertainment mode** balances CPU and GPU power and is ideal for watching videos etc.
- **Performance mode** is ideal for gaming with higher CPU and GPU performance.

Note: You can use the **Fn + 3** key combination to quickly toggle through, and select, the Power Modes.

Fan Speed Control

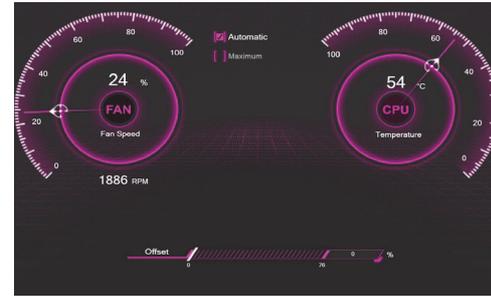


Figure 14 - Fan Speed Control

You can set the fan speed to **Maximum** (full power) or **Automatic/Silent**. The fan speed will adjust itself automatically to control the heat of the CPU/GPU. You can use the **Offset** slider to adjust the settings to your preference. However you can adjust the setting to **Maximum** if you prefer.

All these settings can be overridden by the system, as a safety precaution, if it requires heavier use of the fan.

White-LED Keyboard (Option - Model A Only)

The **LED Keyboard** application can be accessed by clicking **LED Keyboard** in the **Control Center** or from the Start menu in *Windows*  .



Figure 15 - LED Keyboard Application

KB Sleep Timer

Enable and then select the amount of time for which the system is idle before the keyboard LED enters sleep mode (i.e. the LED keyboard illumination will turn off to save power).

KB Brightness

You can adjust the keyboard brightness using the **Brightness** slider.

Multi-Color LED Keyboard (Option - Model B Only)

The **LED Keyboard** application can be accessed by clicking **LED Keyboard** in the **Control Center** (or by pressing the **Fn** plus  key) or from the Start menu in **Windows** .



Figure 16 - LED Keyboard Application

The keyboard LED may be configured using the **Fn + key combination** outlined in the table below.

Keyboard LED Function key Combinations	
Fn + 	Launch the LED Keyboard Application
Fn + 	Toggle the Keyboard LED On/Off
Fn + 	Keyboard LED Illumination Decrease
Fn + 	Keyboard LED Illumination Increase

Table 3 - Keyboard LEDs

Color Swatch

The color swatch in the middle of the screen allows you to select a range of colors for your keyboard backlight by clicking on the color required. Click to select any color from the swatch to apply to the keyboard.

KB Sleep Timer

Enable and then select the amount of time for which the system is idle before the keyboard LED enters sleep mode (i.e. the LED keyboard illumination will turn off to save power).

KB Brightness

You can adjust the keyboard brightness using the **Brightness** slider.

Windows 10 Start Menu, Context Menu, Taskbar, Control Panel and Settings

Most of the apps, control panels, utilities and programs within *Windows 10* can be accessed from the Start Menu by clicking the icon  in the taskbar in the lower left corner of the screen (or by pressing the **Windows Logo Key**  on the keyboard).

Right-click the Start Menu icon  (or use the **Windows Logo Key**  + **X** key combination) to bring up an advanced Context Menu of useful features such as Apps and Features, Power Options, Task Manager, Search, File Explorer, Device Manager and Network Connections etc.

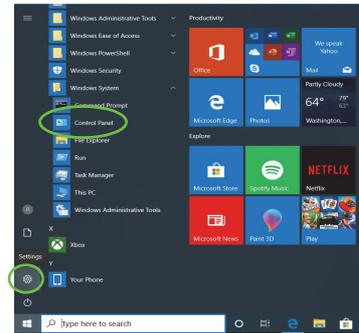
The notification area of the taskbar is in the bottom right of the screen. Some of the control panels and applications referred to throughout the course of this manual can be accessed from here.

Throughout this manual you will see an instruction to open the Control Panel. To access the Control Panel, select Control Panel under the **Windows System** item in the Start Menu.

The **Settings** item in the Start Menu (and also as an App) gives you quick access to a number of system settings control panels allowing you to adjust settings for System, Devices, Phone, Network & Internet, Personalization, Apps, Accounts, Time & Language, Gaming, Ease of Access, Search, Cortana, Privacy and Update & Security.



Figure 17
Start Menu,
Context Menu,
Taskbar, Control Panel and
Settings



Video Features

The system features an **Intel integrated GPU**. You can switch display devices, and configure display options, from the **Display** control panel in *Windows* as long as the video driver is installed.

To access the Display control panel in Windows:

1. Right-click the desktop and select **Display settings** from the menu.
2. Choose the required display settings from the menus.

To access the Intel® Graphics Command Center:

1. Access the **Intel® Graphics Command Center** from the Start menu in *Windows*



Display Devices

Note that you can use external displays connected to the HDMI-Out port and/or USB 3.2 Gen 2 Type-C port with DisplayPort (Factory Option). See your display device manual to see which formats are supported.

In *Windows* it is possible to quickly configure external displays from the **Project** menu (press the **Windows Logo Key**  and the **P** key or press the **Fn + F7** key combination).

To configure the displays using the Project menu:

1. Attach your external display device to the appropriate port, and then turn it on.
2. Press the  + **P** (or **Fn + F7**) key combination.
3. Click on any one of the options from the menu to select **PC screen only**, **Duplicate**, **Extend** or **Second screen only**.
4. You can also click **Connect to a wireless display** at the bottom of the **Project** screen and follow the steps to connect to any wireless enabled display.

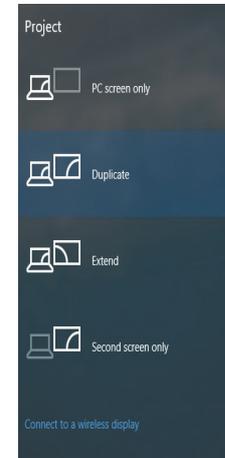


Figure 18
Project

To configure the displays using the Display control panel:

1. Attach your external display(s) to the appropriate port, and turn it (them) on.
2. Right-click the desktop and select **Display settings** from the menu.
3. Click the **Detect** button.
4. The computer will then detect any attached displays.
5. You can configure up to 3 displays from the **Multiple displays** menu.

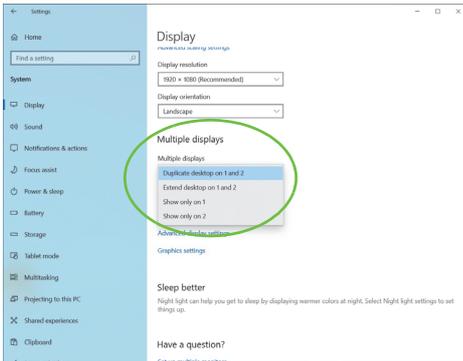


Figure 19
**Display
(Multiple
displays)**

Audio Features

You can configure the audio options on your computer from the **Sound**  control panel in *Windows*.

The volume may be adjusted by means of the **Fn + F5/F6** key combination. The sound volume level can also be set using the volume control within *Windows*. Click the **Speaker** icon in the taskbar to check the setting.

Nahimic Audio (Model B Only)

The **Nahimic Audio** application allows you to configure the audio settings to your requirements for the best performance in games, music and movies.

Nahimic Audio Application

Run the Nahimic Audio control panel from the Start menu in *Windows* .



Figure 20 - Nahimic Audio

Power Options

The **Power Options (Hardware and Sound menu)** control panel icon in *Windows* allows you to configure power management features for your computer. You can conserve power by means of **power plans** and configure the options for the **power button**, **sleep button (Fn + F12)**, **computer lid (when closed)**, **display** and **sleep mode** (the default power saving state) from the left menu.

Click **Create a power plan** in the left menu and select the options to create a new plan. Click **Change Plan Settings** and click **Change advanced power settings** to access further configuration options.

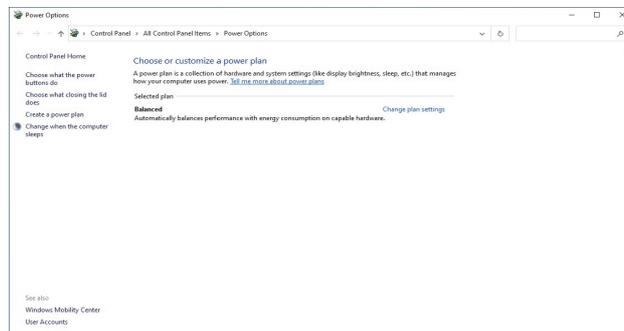


Figure 21 - Power Options

Driver Installation

The *Device Drivers & Utilities + User's Manual* disc contains the drivers and utilities necessary for the proper operation of the computer. This setup will probably have already been done for you. If this is not the case, insert the disc and click **Install Drivers** (button), or **Option Drivers** (button) to access the **Optional** driver menu. Install the drivers **in the order indicated** in *Figure 22*. Click to select the drivers you wish to install (you should note down the drivers as you install them). **Note:** If you need to reinstall any driver, you should uninstall the driver first.

Latest Updates

After installing all the drivers make sure you enable **Check for updates** (**Settings > Update & Security > Check for updates**) and go to the Microsoft Store and click **Downloads and updates > Get updates** to update all Apps etc.



Figure 22 - Install Drivers



Driver Installation & Power

When installing drivers make sure your computer is powered by the AC/DC adapter connected to a working power source. Some drivers draw a significant amount of power during the installation procedure, and if the remaining battery capacity is not adequate this may cause the system to shut down and cause system problems (note that there is no safety issue involved here, and the battery will be rechargeable within 1 minute).



Driver Installation General Guidelines

As a general guide follow the default on-screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Make sure any modules (e.g. WLAN or Bluetooth) are **ON** before installing the appropriate driver.

Wireless LAN Module (Option)

Make sure the Wireless LAN module is turned on (and not in **Airplane Mode**) before configuration begins.

WLAN Configuration in Windows

1. Click the icon  in the notification area of the taskbar.
2. Make sure that **Airplane mode** is **off** (the Airplane mode icon should be gray).
3. A list of available access points will appear.
4. Double-click an access point to connect to it (or click it and click **Connect**).
5. Enter a network security key (password) if required, and click **Next**.
6. You can choose to find other devices or not.
7. When you are connected to the network access point it will display **Connected**.
8. Select any connected network and click **Disconnect** to disconnect from a connected access point.
9. You can click the **Airplane Mode** button to turn the mode On or Off.
10. Alternatively you can click the **Wi-Fi** button to turn just the Wi-Fi On or Off.



Connect Automatically

It is recommended that you check the box to Connect automatically.

This will cause the system to check for the access point upon startup, and resuming from a power-saving state, and will remove any necessity to keep connecting manually.

Bluetooth Module (Option)

Make sure the Bluetooth module is turned on (and not in **Airplane Mode**) before configuration begins.

Bluetooth Configuration in Windows

1. Click the **Settings** item in the Start Menu and then click **Devices**.
2. Click **Bluetooth & other devices**.
3. Click **Add Bluetooth & other device > Bluetooth** and a list of discovered devices will appear.
4. Double-click the device you want to pair with the computer and click **Connect**.
5. Select a device and click **Remove Device > Yes** to disconnect from any device.

Fingerprint Reader (Option - Model A Only)

Enroll your fingerprints as instructed below before use. The fingerprint reader module uses the **Sign-in options** configuration of the *Windows Account*.



Fingerprint Sign-In Issues

If at the Windows Hello screen, the fingerprint reader fails to recognize the fingerprint 3 times it will then block access to the computer. In this case you will need to use your PIN (the PIN you used when initially setting up the fingerprint reader) to access the computer. Alternatively you can sign-in using your windows password. After using the PIN code (or windows Password) to access the computer you can go to the **Settings > Accounts > Sign-in options** if you wish to change any settings.

Fingerprint Module Configuration

1. Click the **Settings** item in the Start Menu.
2. Click **Accounts** and then click **Sign-in options**.
3. You will need to add a **Windows** password (click **Add** under **Password**).
4. After you have added the password you will need to also add a **PIN**.
5. Click **Set up** under **Windows Hello Fingerprint**.
6. The wizard will then guide you through the set up process to enroll your fingerprints.

7. You will be instructed to **Touch the fingerprint sensor** a number of times (**this may be in excess of 20 times**).
8. Try to present different parts of your finger in different positions similar to the various positions you may use when using it, and note the following:
 - Hold the finger on the sensor for at least half a second.
 - Make sure that you make firm direct contact with the sensor, and cover the entire area of the sensor with the finger (you are looking for a reading of at least 75% of the finger area).
 - Use a pressing motion as opposed to a touching or tapping motion.
 - When authenticating use the same sort of angle you used for enrollment.
9. Click **Close** when complete.
10. You can choose to **Add another** finger (this is recommended) or **Remove** the current fingerprint reading.
11. You can now touch the fingerprint sensor to log-on to the computer.

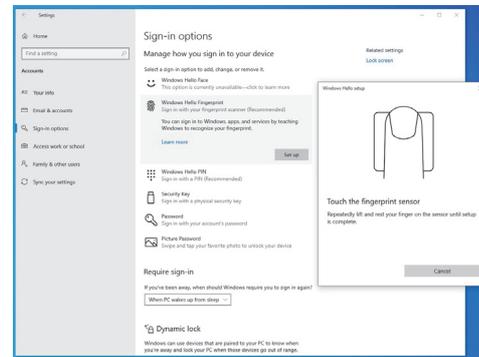


Figure 23
Accounts - Sign-in options

TPM (Option)

Before setting up the TPM (Trusted Platform Module) functions you must initialize the security platform.

Activating TPM

1. Restart the computer.
2. Enter the **BIOS** pressing **F2** during the POST/startup.
3. Click **Setup Utility** and select the **Security** menu.
4. Click **TPM Configuration** and select **Enable for Security Device Support**.
5. You will then need to press/click **F10** to save the changes and restart the computer.



Figure 24
Security -
Trusted
Computing

TPM Management in Windows

You can manage your TPM settings from within *Windows*:

1. Go to the **Control Panel**.
2. Click **BitLocker Drive Encryption (System and Security)**.

3. Click **TPM Administration**.

Figure 25
BitLocker Drive
Encryption
(TPM Admini-
stration)



4. The TPM Management window allows you to configure the TPM within *Windows*. As TPM is usually administered within large enterprises and organizations, your system administrator will need to assist you in managing the information here.

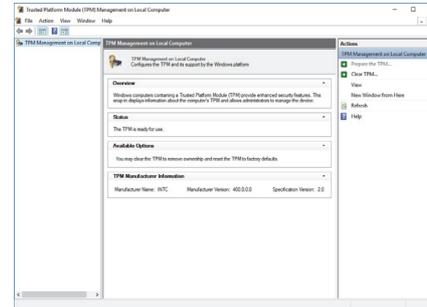


Figure 26
Trusted Plat-
form Module
(TPM) Manage-
ment on Local
Computer Ad-
ministration

TPM Actions

1. Click **Prepare the TPM** and follow the instructions in the Wizard to prepare the TPM (this will probably require a restart of the computer and confirmation of the setting changes after restart by pressing the appropriate F key).
2. After the restart the TPM will be prepared and you can then use the **Actions** menu to **Turn TPM off**, **Change Owner Password**, **Clear TPM** or **Reset TPM Lockout**.
3. A wizard will help take you through any setup steps.

Troubleshooting

Problem	Possible Cause - Solution
The Wireless LAN/Bluetooth modules cannot be detected.	<i>The modules are off as the computer is in Airplane Mode. Use the Fn + F11 key combination to toggle Airplane Mode on/off (see Table 2 on page 10).</i>
The Camera module cannot be detected.	<i>The module is off. Press the Fn + F10 key combination in order to enable the module (see Table 2 on page 10). Run the camera application to view the camera picture.</i>
The computer is off (or in Sleep Mode) but powered by the AC/DC adapter plugged in to a working outlet or powered by the battery with a capacity level above 20%. I have plugged a device into the powered USB port in order to charge it, but the device is not charging.	<i>The port is not powered on. Toggle power to the port using the Fn + Power Button combination.</i> <i>This function may not work with certain external USB compliant devices (check your device's documentation). If this is the case, power the computer on and connect the external USB device in order to charge it.</i>
Gaming performance is slow.	<i>It is recommended that you use Maximum fan speed when playing games. Use the Fn + 1 key combination to adjust the fan speed.</i>

Specifications



Latest Specification Information

The specifications listed in this section are correct at the time of going to press. Certain items (particularly processor types/speeds) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for details.

Note that this computer model series may support a range of CPUs and/or video adapters.

To find out which CPU is installed on your system go to the **Start** menu and select **Settings**, and then select **System** and click **About**. This will also provide information on the amount of **Installed RAM** etc.

To get information on your system's **video adapter** go to the **Start** menu and select **Settings**, and then select **System** and click **Display > Advanced display settings > Display adapter properties**.

BIOS

128Mb SPI Flash ROM
Insyde BIOS

Memory

Dual Channel DDR4
Two 260 Pin SO-DIMM Sockets Supporting **DDR4 3200MHz** Memory
Memory Expandable up to 32GB
Compatible with 4GB, 8GB or 16GB Modules

(The real memory operating frequency depends on the FSB of the processor.)

Display Options

Model A

LCD, 14" (35.56cm), 16:9, HD (1366x768)/
FHD (1920x1080)

Model B

LCD, 15.6" (39.62cm), 16:9, HD
(1366x768)/FHD (1920x1080)

Storage

Model A

One M.2 PCIe **Gen4 x4** Solid State Drive
(SSD)

Model B

One Changeable 2.5" 7mm (h) SATA HDD/
SSD
(**Factory Option**) One M.2 **PCIe Gen4 x4**
Solid State Drive (SSD)

Audio

High Definition Audio Compliant Interface
2 * Built-In Speakers
Built-In Array Microphone
Or
(**Factory Option for Model A**) Built-In
Microphone
(**Model B Only**) Nahimic Audio

Pointing Device

Built-in Touchpad (with Microsoft PTP Multi
Gesture & Scrolling Functionality)

Keyboard

Model A

Keyboard (with Numeric Keypad)
Or
(**Factory Option**) **White**-LED Keyboard
(with Numeric Keypad)

Model B

Full-size Keyboard (with Embedded
Numeric Keypad)
Or
(**Factory Option**) Full-size **Multi-Color**
LED Keyboard (with Numeric Keypad)

M.2 Slots

Slot 1 for **WLAN and Bluetooth** Combo
Module
Slot 2 for **PCIe Gen4 x4 SSD**
(**Factory Option for Model B**) Slot 3 for **4G**
Module

Interface

One USB 3.2 Gen 2 Type-C Port*
Or

(Factory Option) One USB 3.2 Gen 2 Type-C Port with DisplayPort and Power Delivery (DC-In)

**The maximum amount of current supplied by USB Type-C ports is 500mA (USB 2.0)/ 900mA (USB3.2).*

One USB 3.2 Gen 2 Type-A Port
Or

(Factory Option) One Powered USB 3.2 Gen 2 Type-A Port

One HDMI-Out Port

One 2-In-1 Audio Jack (Headphone / Microphone)

One RJ-45 LAN Jack

One DC-in Jack

Model A

One USB 2.0 Port
Or

(Factory Option) One USB 3.1 Gen 1 Type-A Port

Model B

Two USB 2.0 Ports

Card Reader

MicroSD Card Reader

Security

Security (Kensington® Type) Lock Slot
BIOS Password

Intel PTT for Systems Without TPM Hardware

(Factory Option) TPM 2.0

(Factory Option for Model A) Fingerprint Sensor

Communication

Built-In 10/100/1000Mb Base-TX Ethernet LAN

1.0M HD Webcam

(Factory Option for Model B) 4G M.2 Module

WLAN/ Bluetooth M.2 Modules:

(Factory Option) Intel® Dual Band Wi-Fi 6 AX200, 2x2 AX Wireless LAN + Bluetooth

(Factory Option) Intel® Dual Band Wi-Fi 6 AX201, 2x2 AX Wireless LAN + Bluetooth

(Factory Option) Intel® Dual Band Wi-Fi 5 Wireless-AC 9462, 1x1 AC Wireless LAN + Bluetooth

(Factory Option) Intel® Dual Band Wi-Fi 5 Wireless-AC 9560, 2x2 AC Wireless LAN + Bluetooth

Environmental Spec

Temperature

Operating: 5°C - 35°C

Non-Operating: -20°C - 60°C

Relative Humidity

Operating: 20% - 80%

Non-Operating: 10% - 90%

Power

Full Range AC/DC Adapter
AC Input: 100 - 240V, 50 - 60Hz
DC Output: 19V, 2.37A **(45W)**

Embedded 3 Cell Smart Lithium-Ion Battery Pack, 36WH

(Factory Option) Embedded 4 Cell Smart Lithium-Ion Battery Pack, 49WH

Dimensions & Weight

Model A

324.9mm (w) * 219.5mm (d) * 19.4mm (h)

1.29kg (Barebone with 36WH Battery)

Or

1.35kg (Barebone with 49WH Battery)

Model B

360.4mm (w) * 239.3mm (d) * 19.7mm (h)

1.59kg (Barebone with 36WH Battery)



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