Centerm Chromebook M612B

User Manual

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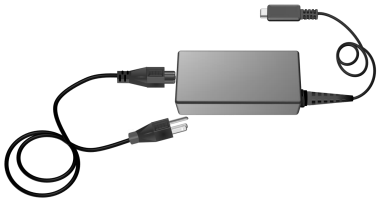
1. Getting to know your Chromebook

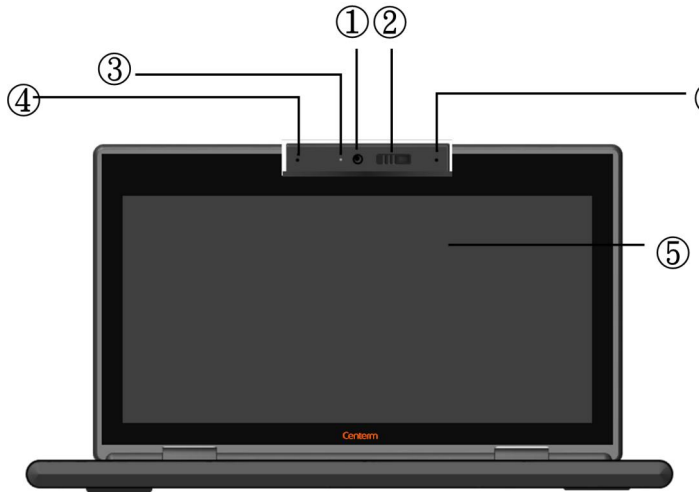
Package contents

Carefully unpack your box and take out the items listed as below. If any of the items is missing or damaged, contact your dealer immediately:

• One Chromebook	• One AC adapter and power cable
	
• Stylus (optional)	**• This manual**
Stylus Pen USB-C Charging Dock (optional)	

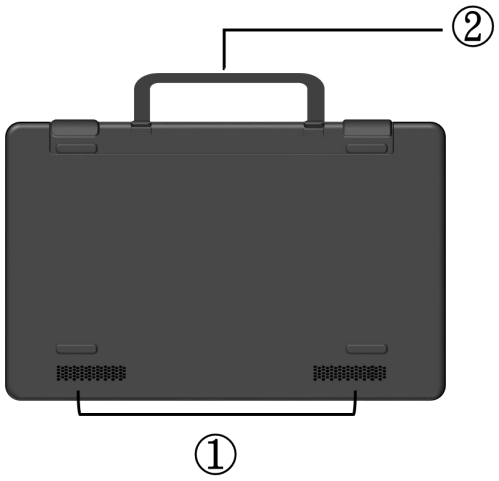
Layout

Front



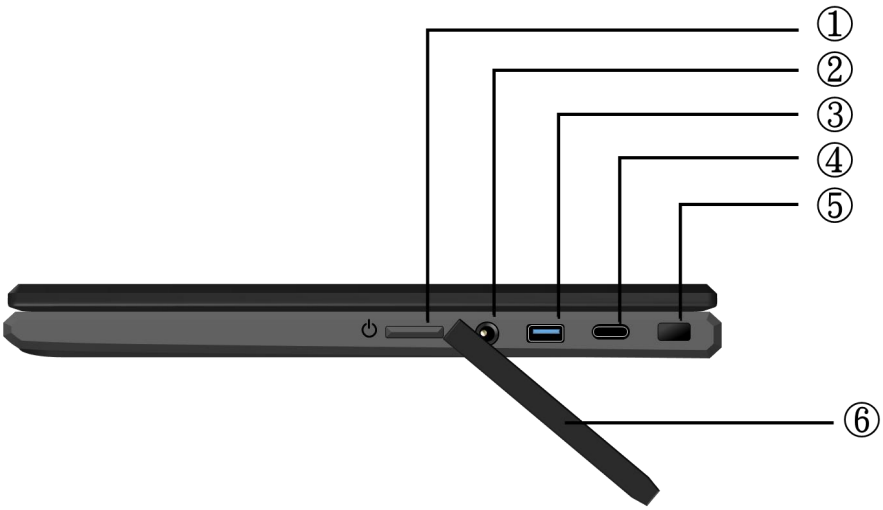
No.	Name	Function
1	Rotatable Camera (optional)	Take self-portraits as well as for video conferencing.
2	Camera Cover Slider (optional)	Slide with your finger to open & close the cover to control when to be seen or not.
3	LED indicator	Indicate camera on or off status.
4	Microphone	Mainly for sound and speech recording.
5	Touch screen	The main display of your Chromebook and a see-touch device. You can look at it and also touch it with your fingers to control it.
6	2nd Camera (optional)	Use as a rear camera when fold the device to use as a tablet.
7	Touchpad	Control the system using figure gestures

Bottom



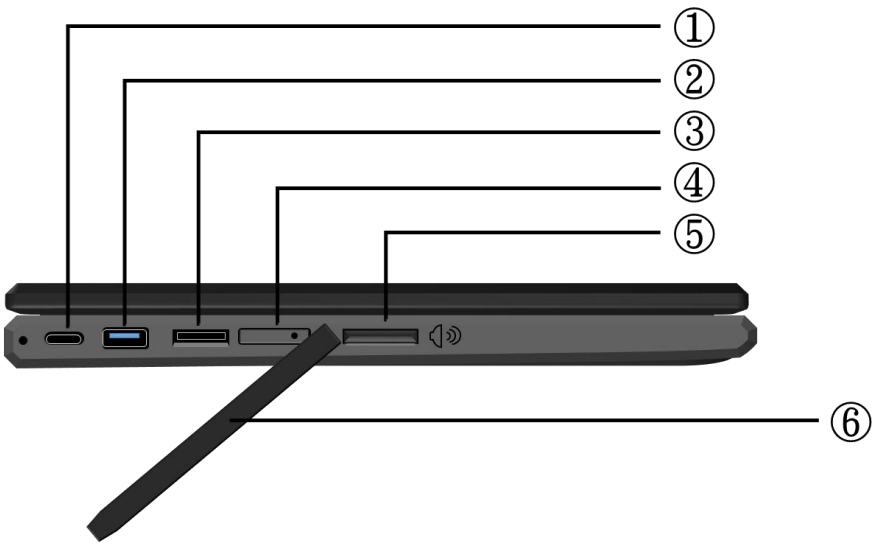
No.	Name	Function
1	Speaker	The sound system has two speakers for playing music, notification sounds, and other audio data.
2	Handle (optional)	This integrated rubber handle allowing you to carry your Chromebook easily and handily.

Right



No.	Name	Function
1	Power button	Press it to power on/off your Chromebook
2	Combo Audio jack for microphone/headphone	Plug your 3.5mm headphone here
3	USB USB 3.2 Gen 1 Type-A port	Plug your USB Type-A devices here.
4	Full-functioned USB Type-C port	Plug your USB Type-C supported devices here. It is used for transferring video, and audio at high speed and power as well.
5	Kensington lock	Allows you to secure the Chromebook with a Kensington lock.
6	Rubber cover (optional)	Pull and flip it up to access the I/O interface

Left



No.	Name	Function
1	Full-functioned USB Type-C port	Plug your USB Type-C supported devices here. It is used for transferring video, and audio at high speed and power as well.
2.	USB 3.2 Gen 1 Type-A port	Plug your USB Type-A devices here.
3	Micro SD card slot	Plug your micro SD card here.
4	SIM card slot (optional)	Plug your SIM card here.
5	Volume button	Turn your volume up or down
6	Rubber cover (optional)	Pull and flip it up to access the I/O interface

Function keys

	Go to the previous page.		Increases the display brightness.
	Refresh your current page.		Mutes/unmutes the audio output.
	Open the page in full-screen mode.		Decreases the volume level.
	Show all your open windows.		Increases the volume level.
	Take a screenshot		Lock or unlock the screen
	Decreases the display brightness.		The Launcher key to search, show your apps, and interact with Google Assistant.

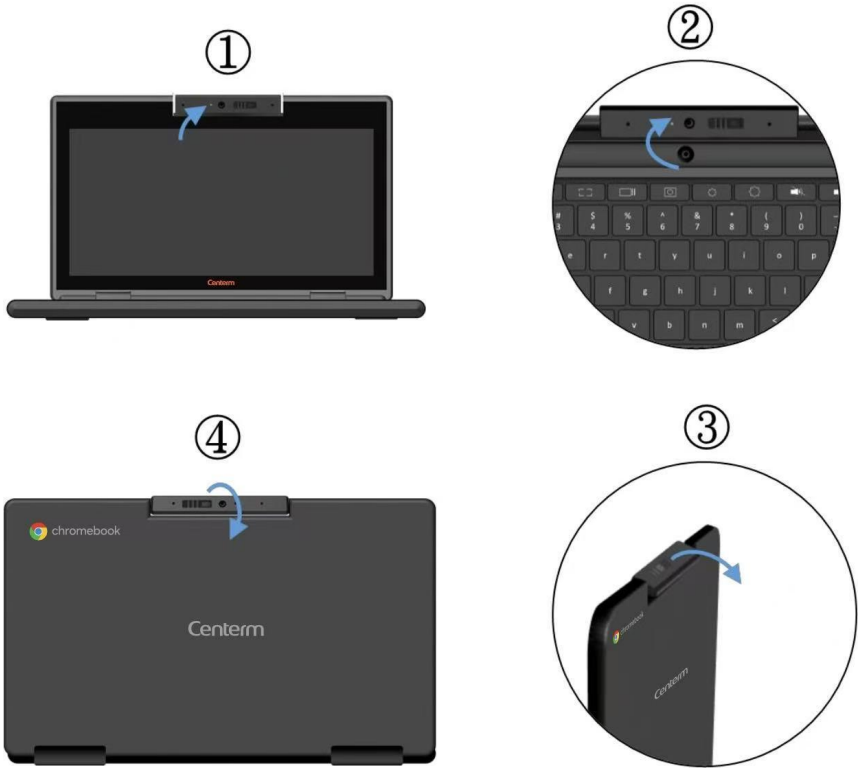
Your camera (rotation optional)

The fixed camera is located directly above the screen.

Rotation optional:

Besides the angle at which the camera facing forward, you can adjust the camera angle upward to make it facing up at an angle of 90-degree

Or, you can turn it over a full 180-degree to use it like a rear-facing camera.

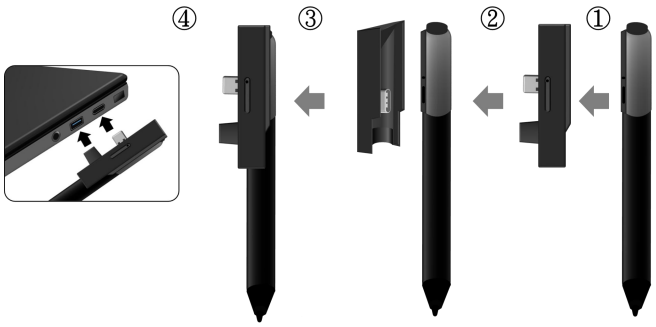


Charge your stylus pen (optional)

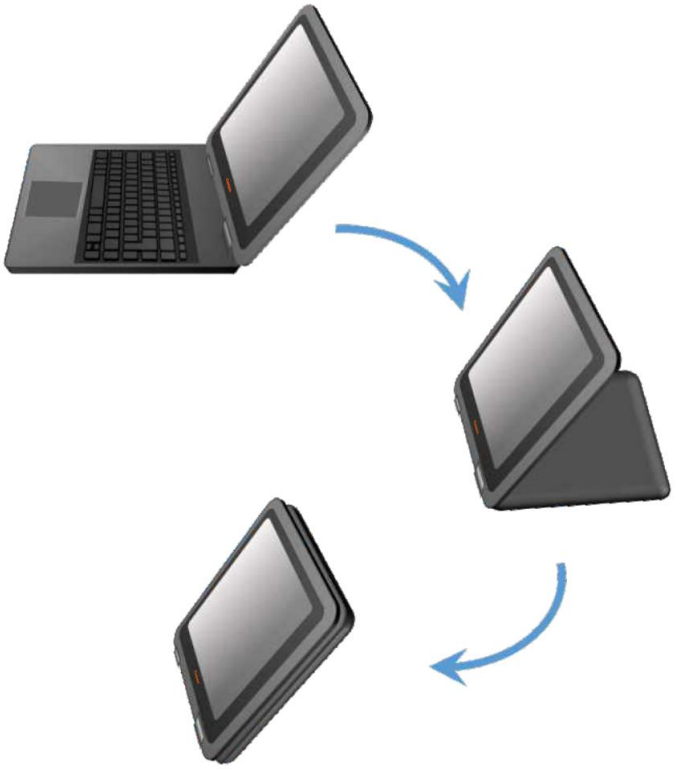
While connecting your stylus for the first time, the shipping mode is still enabled. To use the stylus for first time, connect the stylus pen to the charging area of your Chromebook to disable shipping mode.

To charge the stylus pen, connect the stylus pen to the charging dock and plug it into a USB-C port on the right side of the Chromebook.

When the stylus is charging, the power indicator light on the charging dock will turn red. Once the pen is fully charged, the LED will turn off.



Folding the keyboard



This Chromebook supports a swiveling 11.6-inch touchscreen that can be used in several different ways. Opening the device as a standard Chromebook gives you access to the keyboard and touchpad, while folding the keyboard behind the screen turns it into tent mode or stand mode, which is ideal for viewing videos and presentations.

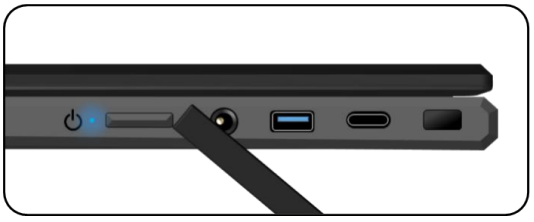
2. Using your Chromebook

Powering ON/OFF

Powering on your Chromebook

1. If this is the first time you turn this Chromebook on, connect the adapter and fully charge the battery.

2. Press the power button (normally 1 to 2 seconds) until you see the power indicator lights up in blue.



Powering on for the first time

The Chromebook will require you to do the initial setup, which including:

- Sign in to or create your Google Account
- Setup a wireless connection and more

Please follow the instruction to complete the initial setup.

Powering off your Chromebook

Save all your data before powering your Chromebook off.

To power off your system, following the steps below:

1. Click the **Status** area.
2. In the menu, click the **Power** icon, or click Sign out > Shut down

Tips:Due to frequent updates of ChromeOS, the operation steps are for reference only.

Putting your Chromebook into sleep mode

When you will be away from your Chromebook for a short time, you can put it to sleep by closing the display panel.

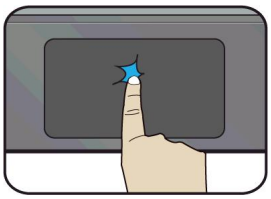
Waking up your Chromebook

To wake up your Chromebook, just open the lid, then press any key or swipe the touchpad.

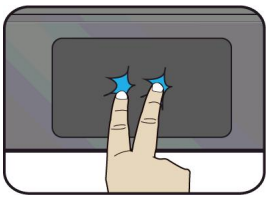
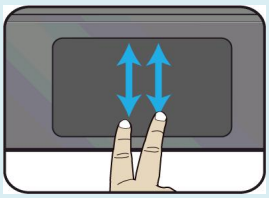
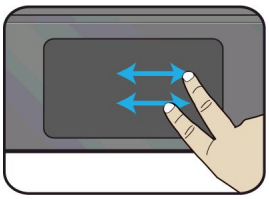
Basic touchpad operations

The touchpad works like a traditional mouse. With it, you can move the cursor and perform left-click, right-click, double-click actions. However, the actual available actions are application dependent.

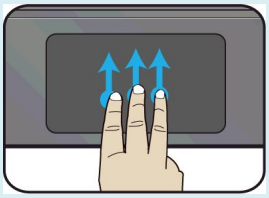
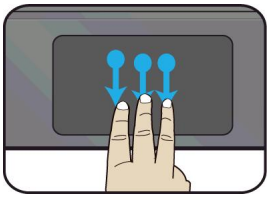
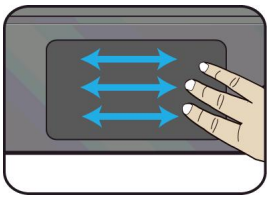
One finger

Action	Explanation
	Tap once on the touchpad surface or press once on the lower half of the touchpad. To get the effect just like left clicking a mouse.

Two fingers

Action	Explanation
	Tap once on the touchpad surface to get the effect just like right clicking a mouse or
	Drag two fingers vertically the touchpad to scroll vertically.
	Drag two fingers horizontally on the touchpad to scroll horizontally.

Three fingers

Action	Explanation
	Press and drag upward with three fingers to bring existing active windows out on the desktop.
	Press and drag downward with three fingers to hide all existing active windows and bring out the desktop.
	Press and drag to left or right with three fingers to switch between existing active windows.

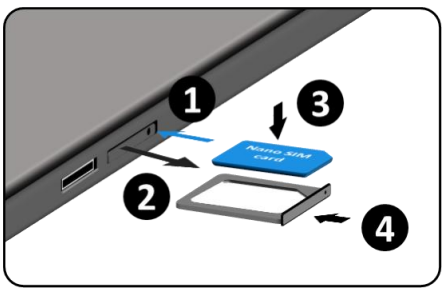
Updating ChromeOS

Automatic update

Each time you turn on your Chromebook, it automatically checks for updates. When an update is available, this update icon will appear as a notification in the status area.

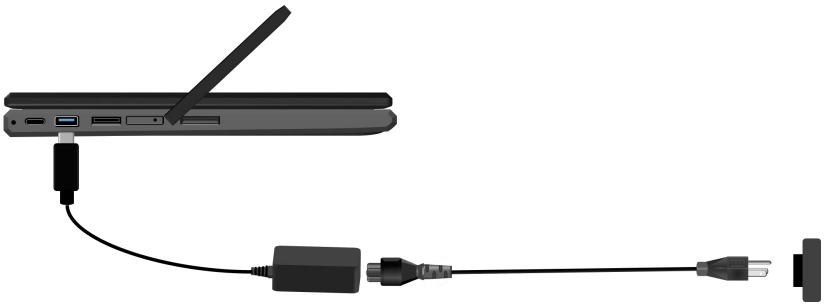
Inserting a Nano SIM Card (optional)

1. Use an eject pin to open the SIM card tray
2. Remove the SIM card tray from the slot. When you remove it, keep it face up.
3. Place the SIM card in the SIM card tray. The words or logo on the SIM card should be facing up.
4. Slide the SIM card tray back into the SIM card slot until it clicks. Don't force it in – the SIM card tray should slide in smoothly



Charging your battery

1. Plug the USB-C end of the adapter into a USB-C port on the left side of your Chromebook.



2. Plug the adapter into a wall-socket.
3. Battery indicator is red when battery is charging.
4. When the battery is fully charged, the indicator stays solid blue.

While system is off, it takes around 2.5 ~ 3 hours to fully charge the battery. After fully charged, the battery Life reaches 10 hours

Note: If the remaining power in your battery capacity is 90% or above, plugging the adapter will not fully charge your battery.

3. Chromebook Help and Troubleshooting

Settings for Sleep mode

To save battery power while your Chromebook is on, you can put it to sleep by closing the lid. Or set it up in the system.

Troubleshooting

This section describes some common problems and suggested solutions, and ways to recover your Chromebook from a crash.

Be aware that the problems and solutions described here are meant only as a guide. They are not definitive problem solving techniques. For certain problems, you might need help from your reseller or your service provider.

When you observe a problem, stop operation immediately, because taking further action might result in data loss or damage. Take a note of what the system is doing and what actions you performed before the problem occurred. Provide detailed information to your service provider for quicker problem resolution.

For about any problem, follow these steps:

1. Restart your Chromebook.
2. Check your Wi-Fi connection.
3. Reset your Wi-Fi connection.

4. Plug your Chromebook to a wall socket to charge it for at least one hour.

Chromebook Help is installed on your Chromebook and doesn't require internet access. It covers basic troubleshooting as well as more detailed information about ChromeOS and using your Chromebook.

To access Chromebook Help, do the following:

1.Press the **Search** key on your keyboard or select the **Launcher** icon.

2.Click to select All Apps (or type "Explore").

3.Select the **Explore** icon.

> **Note:** Some sections in Chromebook Help have web links, which require you to have internet access to view the additional information.

Questions	Answers
What software works on a Chromebook?	Chromebooks use apps from the Google Play Store and on the web, instead of traditional software applications. There are apps to be productive, get creative, enjoy movies and shows, and play games and more.
How do I get more Apps?	You can get more apps from the Google Play Store or the web.

Can I use Microsoft Office software?	Chromebooks work with Microsoft® Word, Excel® and PowerPoint®. You can download the apps from the Google Play Store or use them on the web. *Additional functionality available with a Microsoft 365 subscription. Microsoft, Excel and PowerPoint are registered trademarks of Microsoft Corporation
Where can I find my files	All your files are stored in the Files app. Find the app by clicking the Launcher icon and searching "**Files**".
How do I transfer my local files?	Transfer your local files using a compatible storage device. Your Chromebook works with most external storage devices (e.g: USB thumb drives, removable hard drives). You can also upload your files, photos, and videos to Google Drive. After setting up your Chromebook with your Google Account, you' ll be able to access your files on Drive.
Why does my Chromebook need my Google Account information?	You'll use your Google Account to sign in to your Chromebook. It is the same account you use for Google services such as Gmail and Drive. Your Chromebook uses your account information to automatically sign you into apps and services.
Chromebook Help	Open the **Explore** app on your Chromebook.
ChromeOS	https://support.google.com/chromebookmore.

4. Regulatory Compliance Information

Canadian Department of Communications Compliance Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil numerique német pas de bruits radio électriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Réglement sur le broullage radioélectrique édicté par le ministére des Communications du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE mark. Declaring compliance to all the applicable
European Union (EU) directives. For CE mark related questions:

Fujian Centerm Information Co.,Ltd

20/ Block A Star-net Science Plaza, #33

Xingang Road，High-Tech District, Fuzhou,

Fujian, China

86-28053888

French SAR/DAS

Votre ordinateur a un DAS. Pour plus d'informations, voir le portail radiofréquences-sante-environnement: www.radiofrequences.gouv.fr

In the European Union, this symbol indicates that this product including battery must not be disposed of with household waste. It is your responsibility to hand it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information, please contact your local waste collection center or the point of purchase of this product.

Taiwan battery recycling:

Translation – please recycle batteries

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada (ISED) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the ISED Specific Absorption Rate (“SAR”) limits when operated in portable exposure conditions. (Antennas are greater than 0 mm from a person's body).

CAUTION

User should also be advised that:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
(iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.
Les utilisateurs devraient aussi être avisés que
(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
(ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;
(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

De plus, les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Safety Precautions

The following are lists of precautionary measures that users must understand before using this computer:

1. Do not place near the fire or other sources of heat.
2. Do not expose to magnetic fields.
3. Do not expose to direct sunlight.
4. Do not expose to rain or moisture.
5. Do not place heavy objects to add heavy pressure on the computer.
6. Do not drop the computer.

CAUTION

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

ATTENTION

RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UN TYPE INCORRECT. RECYCLEZ LES BATTERIES USAGÉES SELON LES INSTRUCTIONS.

IT IS RECOMMENDED TO USE THIS COMPUTER IN AN ENVIRONMENT WHERE THE AMBIENT TEMPERATURE IS NO MORE THAN 35°C.

ENERGY STAR® CERTIFICATION

ENERGY STAR is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY STAR label are independently certified to meet strict standards for energy efficiency set by the EPA. As an ENERGY STAR Partner, ECS has followed the U.S.EPA's enhanced product certification process to ensure that products marked with the ENERGY STAR logo are ENERGY STAR certified per the applicable ENERGY STAR guidelines. The following logo appears on all ENERGY STAR-certified computers:

The ENERGY STAR requirement for computer products is power management features to reduce energy consumption when the product is not in use. Power management are set so that the display will go to sleep within 15 minutes of user inactivity and the system will go to sleep within 30 minutes of user activity. The power management features have been preset as follows when the computer is operating on AC power:

Computer Type	Time to activate System sleep mode	Time to activate display sleep mode	Resuming from sleep mode
Notebooks, Desktops, Integrated Desktops, Portable All-In-Ones,	Less than or equal to 30 minutes	Less than or equal to 15 minutes	Press the power button to restore to their normal, active operating modes

Additional information on the potential energy and savings of the power management feature can be found on the EPA ENERGY STAR Power Management website at http://www.energystar.gov/powermanagement.

Additional information on the ENERGY STAR program and its environmental benefits are available on the EPA ENERGY STAR website at http://www.energystar.gov.

ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

5. Specification

Processor	■ Intel® Processor N100, 4C/6W, 0.8GHz~3.4GHz Intel® UHD Graphics, 200MHz~750MHz ■ Intel® Processor N200, 4C/6W, 1.0GHz~3.7GHz Intel® UHD Graphics, 200 MHz~750MHz
Memory	■ LPDDR5 4GB/8GB ■ Single channel transfer rates of up to 4800 MT/S.
Storage	■ Support 32GB/64GB ■ Support eMMC 5.1
Dimension	■ 287 (W) x 199 (D) x 19.9 (H)mm
Weight	■ 1.3kg (TBD)
Wireless	■ 802.11, 2x2 WiFi 6 (2.4 GHz/5 GHz dual-band support) ■ M2. 2230 supported ■ WLAN support (up to 2.4 Gbps)
WWAN (optional)	■ M.2 Type B 4230 module type support ■ USB2.0/3.0 interface ■ Support WCDMA Band 1/2/4/5/6/8/19 ■ Support LTE UL Cat 4, DL Cat 6 ■ Support LTE FDD Band 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/66/71 ■ Support LTE TDD Band 38/39/40/41/42/43/48 (CBRS) ■ *Don’t support B40/42/43 in FCC/IC, B48 in IC, and HPUE in Japan

	■ Functional only, not for telecom
LCD	■ 11.6” TN 1366*768 ■ 11.6” IPS 1366*768 (Optional)
Touch Screen	■ Direct bonding ■ Support 10-points multi-touch, GF2 type ■ Capacitive multi-touch ■ I2C Interface
Active Stylus (optional)	■ Support USI 2.0
Front-Facing Camera	■ 1M w/ LED, 2 digital mic,fixed ■ USB interface ■ Rotate camera (Optional)
2nd Camera (optional)	■ 5M AF w/LED, 1 digital mic ■ USB interface
Battery	■ Li-Polymer Battery, soft pack, non-removable, 2 cells ■ 2S1P/7.7V/5350mAh/ 41Wh ■ 2S1P/7.7V/5900mAh/ 45Wh (Optional, by request to qualify)
Input/Output	■ 2 x USB 3.2 Gen1 Type C port, Data, PD, and DP(switchable) ■ 2 x USB 3.2 Gen 1 port (Type A) ■ 1 x combo Audio jack for microphone/headphone ■ 1 x Micro SD Card ■ 1 x Nano SIM slot (Optional, by request to qualify) 1 x Kensington Lock
Speaker & Microphone	■ Build-in 2 stereo speakers ■ Speaker: 2W , 4Ω

AC adapter	■ DC Output for Adapter : 20V/2.25A ■ DC Output for System : 15V/3A ■ 45 Watts, USB type C plug ■ Automatics Voltage adjustment between 100 and 240VAC ■ Input Frequency 50/60Hz ■ Surge protection	
Certification	EMC	■ WLAN for CE
	RF	■ WLAN for CE (RED / SAR)
	Safety& Environment	■ CB ■ cTUVus (by request) ■ WEEE ■ RoHS (Declaration)
	Design ready	■ Energy Star V8.0 ■ Erp Lot 6
Validation	Others	■ Drop test MIL-STD-810H (76.2cm) ■ Water resistant 300cc on Keyboard/ 200cc on touchpad (Optional) ■ IP52(Optional)
Operating Systems		■ ChromeOS