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Intel RC57 NUC M15 Laptop User Manual

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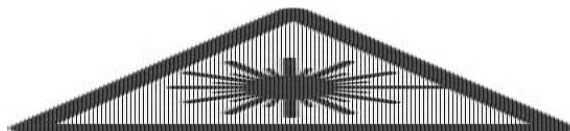
Intel RC57 NUC M15 Laptop User Manual

• LAPRC510
• LAPRC710
• LAPRC7V0

Safety and Caution
Regulatory Information

Regulatory Model: RC57

Product contains a Class 1 laser that complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

Safety and Caution Information

⚠ **AC Power Adapter:** Risk of electric shock, fire, or burn if using an AC adapter other than the one provided with the device. Indoor use only and in dry locations. Device must only be repaired by a professional. Do not open enclosure. The adapter is rated for use between 0 °C and 40 °C (32 °F and 104 °F). Connect only to a properly wired and grounded outlet. 20V, 3.25A, 65W.

⚠ **Temperature:** This device is intended for use in ambient temperatures between 0 ˚C and 35 ˚C (32 ˚F and 95 ˚F). Avoid using or storing next to heat sources, in direct sunlight, or outside the intended temperature ranges.

⚠ **Medical:** This device may interfere with the operation of some pacemakers, hearing aids or other medical devices. To reduce the risk, maintain a separation distance of 20 cm (8 inches) between the device and the medical device. Refer to the medical device for additional information.

⚠️**Modify:** Modification of the wireless solution, thermal solution, device components or enclosure shall violate regulatory compliance requirements and may induce safety hazards.

⚠️ **Battery:** The product may contain an internal lithium manganese dioxide, vanadium pentoxide, or alkaline battery or battery pack. To reduce the risk of fire or burns, do not disassemble, crush, puncture; do not short external contacts; do not dispose of in fire or water. Never attempt to disassemble or reassemble. Risk of explosion if battery is incorrectly replaced. Replace only by the manufacturer with the same type used by the manufacturer. Contact the seller before sending the full product for battery replacement and follow the instruction for safe transport of lithium and li-ion batteries.

⚠️ Heat: Do not place the mobile computer directly on your lap or obstruct the computer air vents. Use the mobile computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation.

⚠️**Potential Safety Concerns:** If you notice any of the following conditions (or if you have other safety concerns), do not use the computer: crackling, hissing, or popping sound, or a strong odor or smoke coming from the computer. It is normal for these conditions to appear when an internal electronic component fails in a safe and controlled manner. However, these conditions may also indicate a potential safety issue. Do not assume it is a safe failure. Turn off the computer, disconnect it from its power source, and contact technical support for assistance.

⚠️ • Class 1 Laser Product, per IEC 60825-1:2014
• λ: 939 nm, P: < 5.9 mW
• Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Regulatory Information

Additional Internal Hardware Required for RC57
Additional internal hardware required: Storage

The Intel® RC57 has been certified for use as a component in Information
Technology Equipment in certain countries. The system integrator is responsible for testing and acquiring any additional country-specific regulatory approvals, including all system-wide certifications.

FCC Declaration of Conformity
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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the

user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For questions related to the EMC performance of this product, contact:

Intel Corporation
Attn: Corporate Quality
2200 Mission College Blvd.
Santa Clara, CA 95054
USA

RF Exposure Information
This device is tested and meets the government's requirements for exposure to radio waves. This device complies with applicable limits for exposure to radio frequency (RF) energy set by the FCC.

Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. The SAR limit set by the FCC is 1.6 W/kg. Testing for SAR is conducted using standard operating positions accepted by the FCC. During testing, the radio is set to its highest transmission levels and placed in positions that simulate use against the body.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/eot/ea/fccid after searching on FCC ID: " PD9AX211NG " and " Contains IC : 1000M-AX211NG "

⚠ Any changes or modifications not expressly approved by Intel could void your authority to operate the equipment.

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 standards(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.

Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. The SAR limit set by the IC is 1.6 W/kg. Testing for SAR is conducted using standard operating positions accepted by the IC. During testing, the radio is set to its highest transmission levels and placed in positions that simulate use against the body.

IC Warning Statement

The 5150-5250 MHz band is for indoor use only, to reduce potential for harmful interference to co-channel Mobile Satellite systems.

CE UK CA

CE Statements
This device complies with the essential requirements of the Radio Equipment
Directive (RED) – 2014/53/EU.

Manufacturer:
Intel Corporation:
Attn: Corp. Quality, 2200 Mission College Blvd,
Santa Clara, CA 95054-1549, USA

EU Single Place of Contact:
Intel Deutschland GmbH, Attn: Corp. Quality,
Am Campeon 10-12,
Neubiberg, 85579 – Germany

UK Single Place of Contact:
Intel Corporation (UK) Ltd., Attn: Corp. Quality,
Pipers Way, Swindon,
Wiltshire SN3 1RJ, UK

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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.

AT	BE	BG	CH	CY	CZ	DE	DK	EE
EL	ES	FL	FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL	NO	PL	PT
RO	SE	SI	SK	TR	UK (NI)		

For RE-Directive 2014/53/EU
All operational modes:

2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), Bluetooth 5GHz: 802.11a, 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ax

The frequency and the maximum transmitted power in EU are listed below:
2400-2485MHz : 20 dBm
5150-5250MHz : 23 dBm
5470-5725MHz : 23 dBm
5725-5875MHz : 13.95 dBm

The adapter shall be installed near the equipment and shall be easily accessible.

Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. The SAR limit set by the ICNIRP Guidelines is 2.0 W/kg(10g). Testing for SAR is conducted using standard operating positions accepted by the EN standard. During testing, the radio is set to its highest transmission levels and placed in positions that simulate use against the body.

This product is compliant with ICNIRP Guidelines with respect to Electromagnetic Fields (EMF) which specifies a Specific Absorption Rate (SAR) limit of 2W/kg.
DAS*/SAR: 1.119 W/kg (corps/body)

Japan Radio Law Warning Statement
Japan RoHS (J-Moss)
https://www.intel.com/content/www/us/en/support/articles/000054822.html

Japan VCCI Statement

Japan Radio Law Warning Statement

Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate

This product contains an Approved module, Model No. AX201.NGWG.NV information.

Korea Certification mark
R-C-INT-AX201NGW
This product contains an approved Model No. AX201.NGWG.NV

XU101448-20038
R-R-CPU-RC57
A/S: 8227672541
Tongfang Hongkong (Suzhou) Ltd

Korea RF Warning Statement

Contiene CNC ID : C22446

Material Declaration Data Sheet

Management Methods on Control of Pollution From Electronic Information Products
(China RoHS declaration)
产品中有毒有害物质的名称及含量
Hazardous Substances Table

部件名称 Component Name	有毒有害物质或元素 Hazardous Substance					
	铅 Pb	汞 Hg	镉 Cd	六价铬 Cr (VI)	多溴联苯 PBB	多溴二苯醚 PBDE
印刷板组件 Printed Board Assembly	X	O	O	O	O	O
显示设备 Display	X	O	O	O	O	O
机壳 Chassis	X	O	O	O	O	O
键盘 Keyboard	X	O	O	O	O	O
电源 Power Supply	X	O	O	O	O	O
电缆 Cable	X	O	O	O	O	O

This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of sale of the enclosed product. Note that some of the component types listed above may or may not be a part of the enclosed product.

The Environmental Protection Use Period (EPUP) for all enclosed products and their parts are per the symbol shown here, unless otherwise marked. Certail field-replaceable parts may have a different EPUP (for example, battery modules) number. The Environment-Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.

To view electronic regulatory label:

1. Turn on or restart the computer.
2. Press F5 before the operating system loads to see the Regulatory screen.
3. To exit the Regulatory screen and load the operating system, press enter.

Disclaimer

Preparing your Computer

Connect the power cord to the AC adapter then to a grounded 100-240VAC outlet.
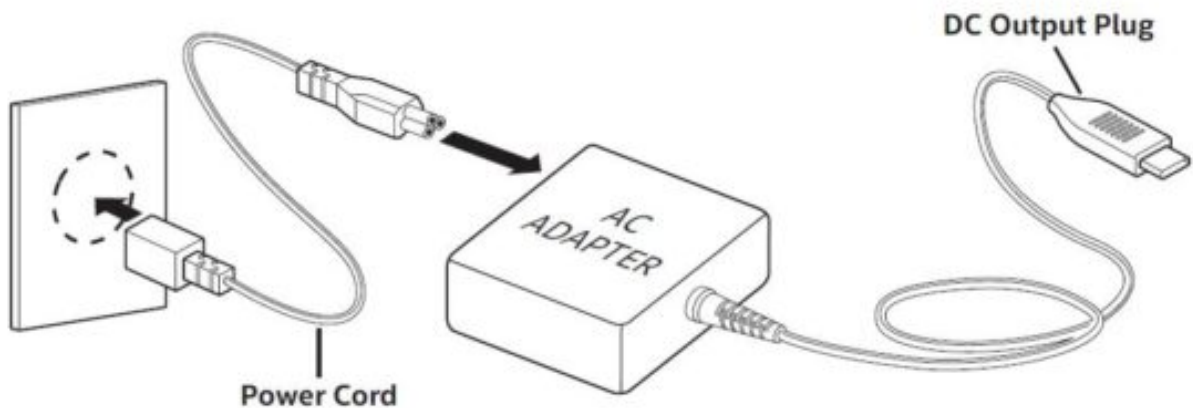
Connect the AC adapter's DC output plug to either of the Thunderbolt™ connectors.
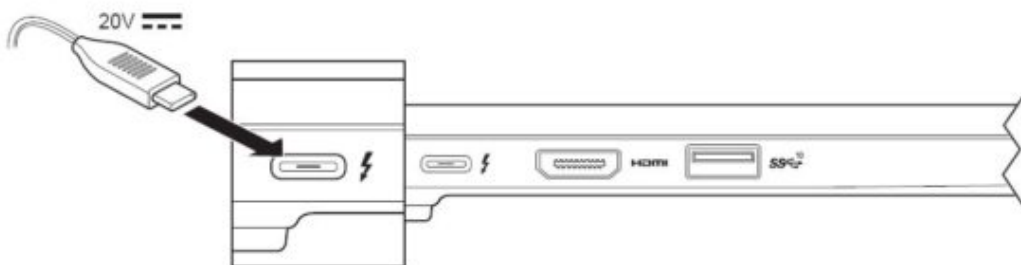
NOTE: The AC adapter must be used the first time the laptop is powered on. The laptop will not power on the first time if the AC adapter is not plugged into the laptop and into an AC power source.

Caution: Risk of shock or fire. Do not use power cord if damaged. Please reach out to place of purchase for replacement.

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

⚠ Attempting to force the lid open beyond 180 degrees will cause damage to the hinges and/or the display.
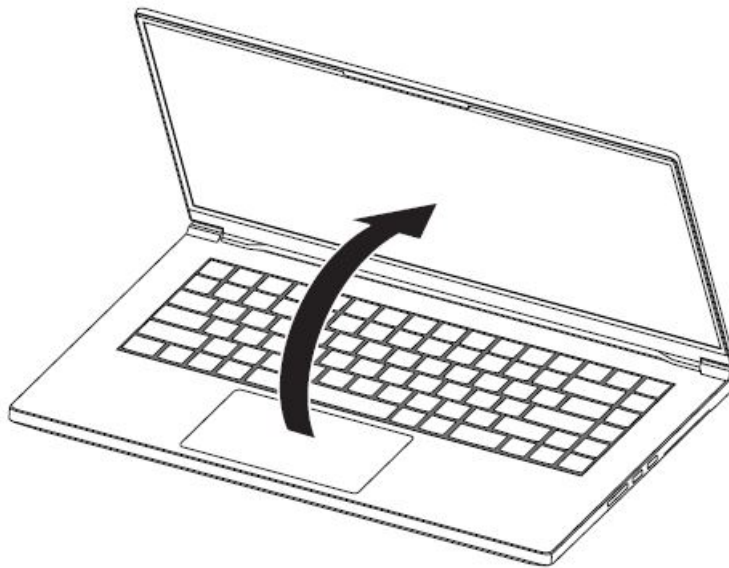
Press the power button to turn on your laptop computer.
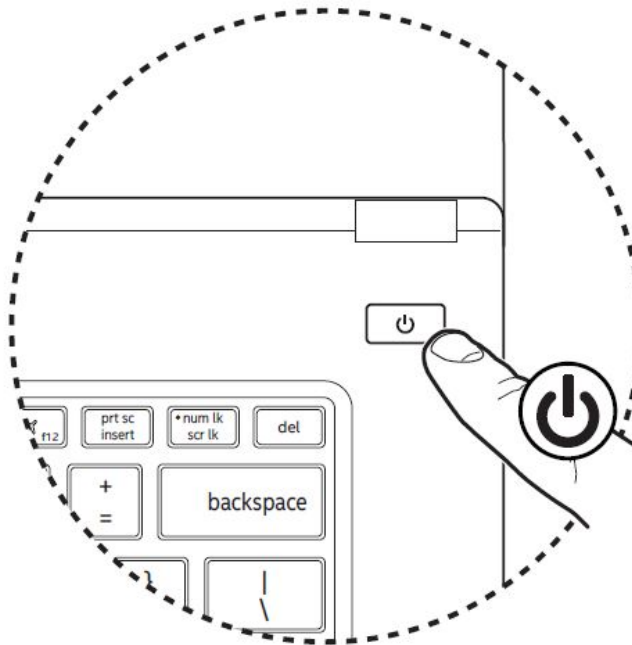
Product Overview

US Keyboard
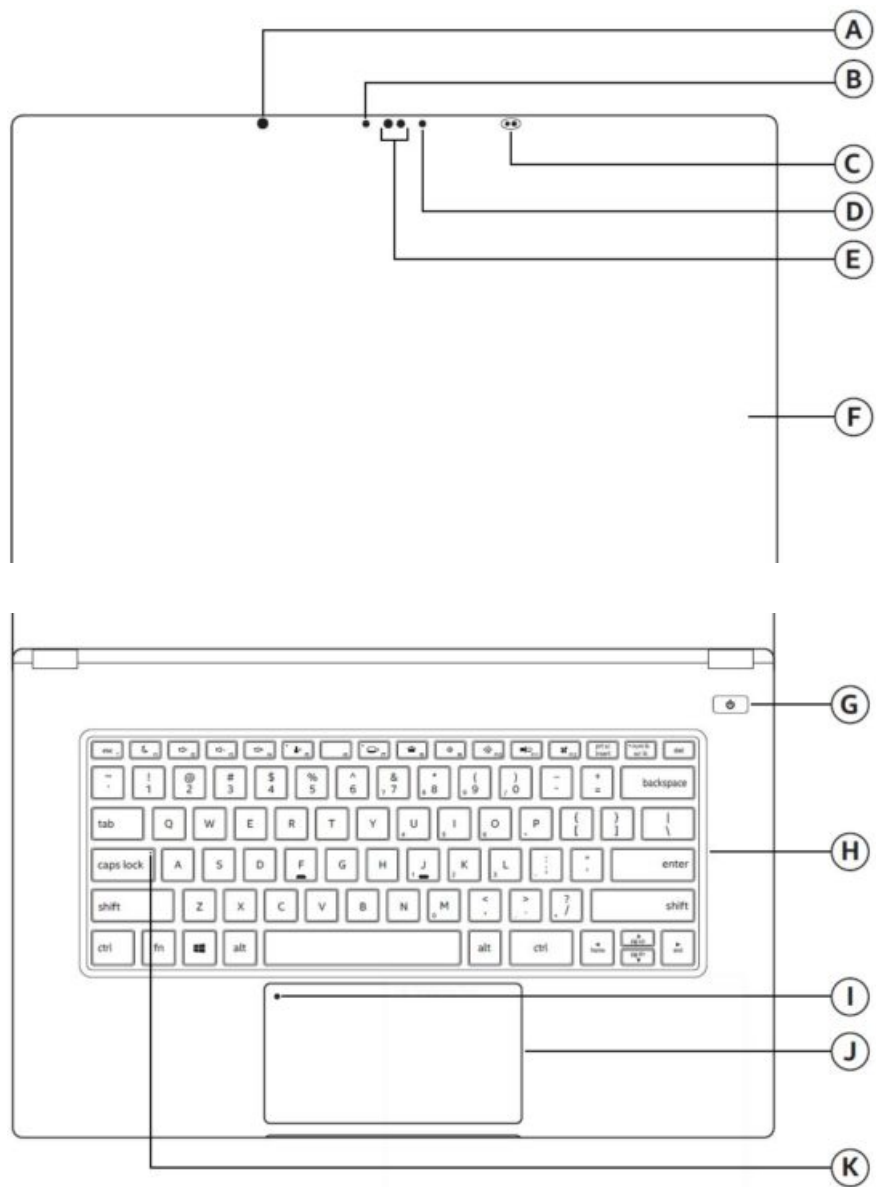
UK Keyboard
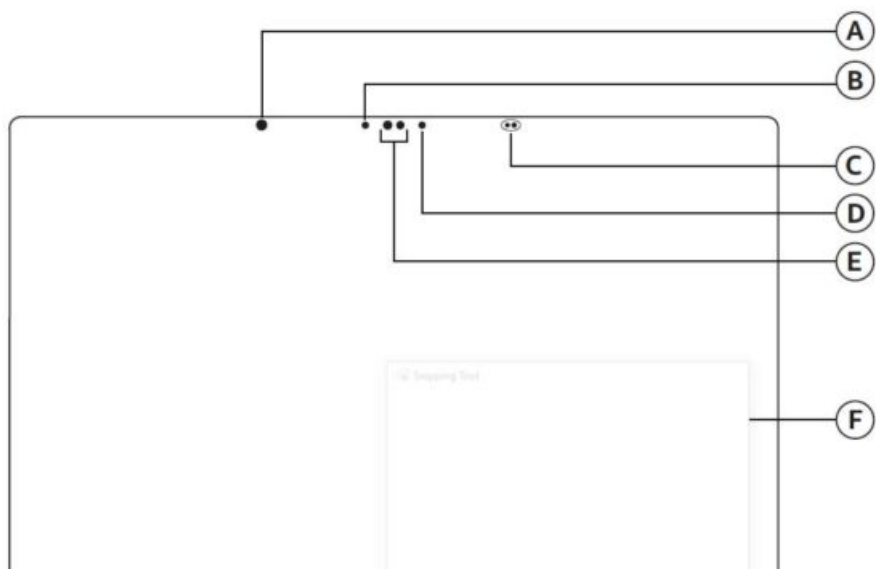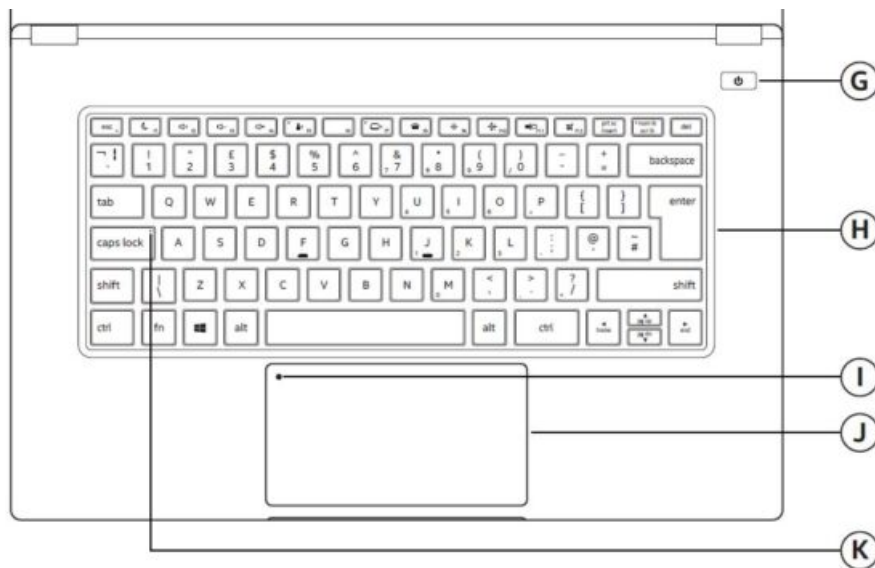
(A) Ambient Light Sensor
A sensor that detects the amount of ambient light present and automatically optimizes the screen brightness.

(B) Infrared LED
Used to support Windows Hello feature

(C) Time of Flight Sensor
A sensor that detects when you approach or leave the laptop.

(D) Infrared LED
Used to support Windows Hello feature

(E) Camera
High Definition Camera

(F) LCD Screen
Internal display/panel

(G) Power Button
Press once to turn the laptop on when it is powered off or asleep. Indicator will turn on. Press once to notify the operating system to power off the laptop or enter sleep mode. Indicator will turn off if powered off.

	Powered On	Modern Standby	Hibernate	Powered Off
AC and Charging	White Breathing			
AC NOT Charging	White Solid	Off		
Battery	White Solid	Off		
Battery Low	Amber	Amber	Off	

(H) Keyboard
Membrane keyboard with backlight support.

(I) Touchpad Enable/Disable Switch with Indicator
Double tap to enable or disable the touchpad.
Indicator will turn on when the touchpad is disabled.

(J) Touchpad/Clickpad
Touch-sensitive pointing device which functions like a mouse

(K) Caps Lock Status Indicator
Caps Lock ON: Indicator On
Caps Lock OFF: Indicator Off

Right Side

(A) Wireless Antenna

(B) Headset Jack
Connect amplified speakers or headphones into this jack

(C) USB 3.2 Gen2 Port
Connect any USB device into this port, such as a USB flash drive, keyboard, or mouse.

(D) Thunderbolt™ 4 Port
Connect any USB Type C or Thunderbolt™ device into this port, such as a USB Flash drive or an external storage device. This port will also support displays using a Type-C to DisplayPort cable.

Power Connector
Connect the AC adapter into this connector

(E) Kensington NanoSaverLock
Anti-theft key lock hole

Left Side
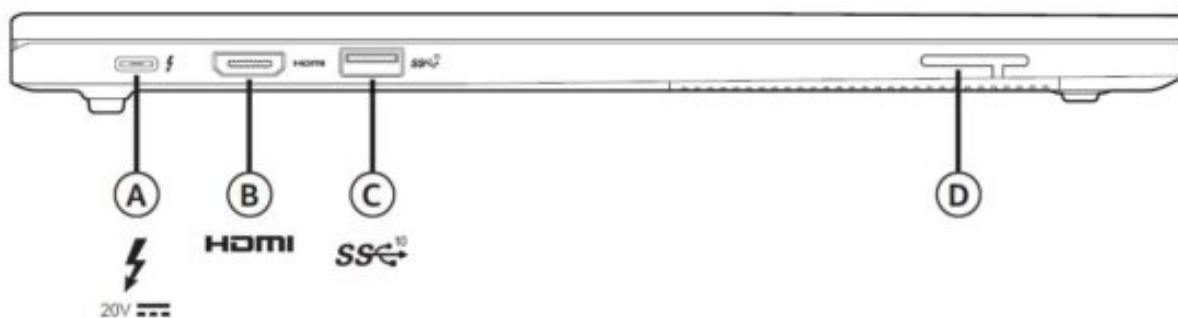
A Thunderbolt™ 4 Port
Connect any USB Type C or Thunderbolt™ device into this port, such as a USB Flash drive or an external storage device. This port will also support displays using a Type-C to DisplayPort cable.

Power Connector
Connect the AC adapter into this connector

B HDMI Port
Supports high-definition digital video connections

C USB 3.2 Gen2 Port
Connect any USB device into this port, such as a USB flash drive, keyboard, or mouse.

D Wireless Antenna

Bottom Side
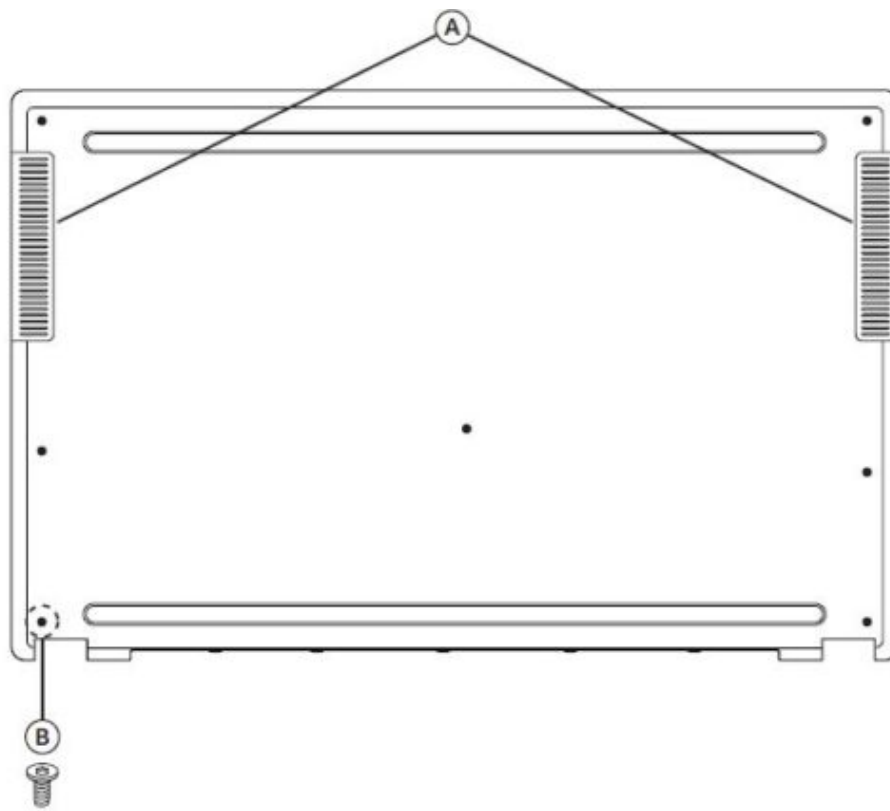
(A) **Speakers**
Stereo audio output

(B) **Back Cover Screws**
Modification of any of the laptop's components will void the warranty

Front Side
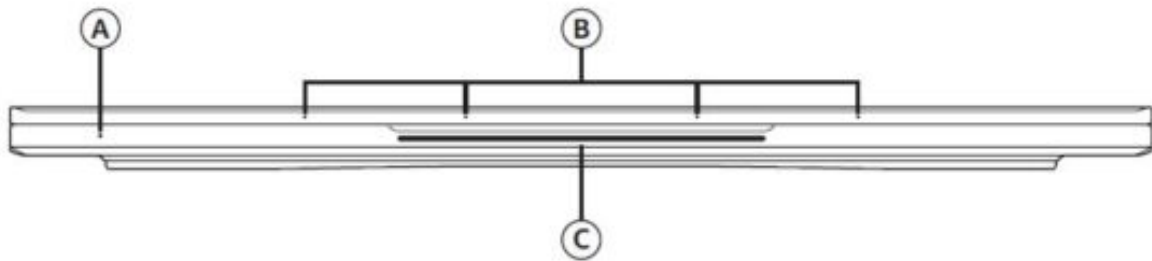
(A) Power and Battery Indicator LED

Charging: Breathing White, Charging Finish (w/AC): White, Battery Low: Amber

	Powered On	Modern Standby	Hibernate	Powered Off
AC and Charging	White Breathing			
AC NOT Charging	White Solid	Off		
Battery	White Solid	Off		
Battery Low	Amber	Amber	Off	

(B) Digital Microphones
Quad built-in Digital Microphone Array

(C) RGB Light Bar
Used to support Alexa personal voice assistant

Back Side
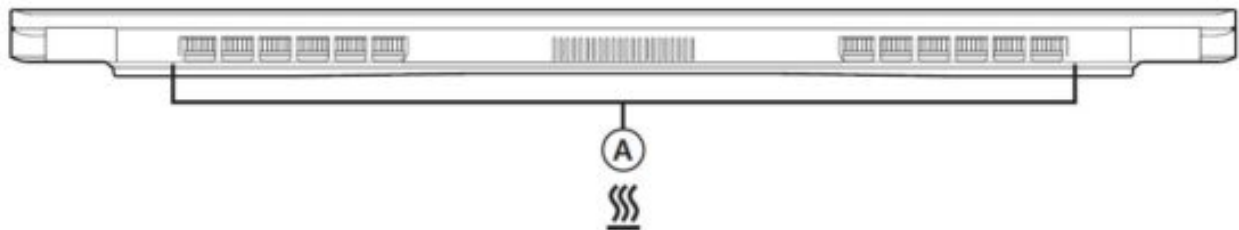
(A) Vents
The thermal vents are designed to cool the internal components and avoid overheating

Understanding the US Keyboard

The following defines the row of function keys which also contain a secondary hotkeys/shortcuts which can be accessed by pressing and holding down the Function Key (FN) while simultaneously pressing the desired hotkey/shortcut.
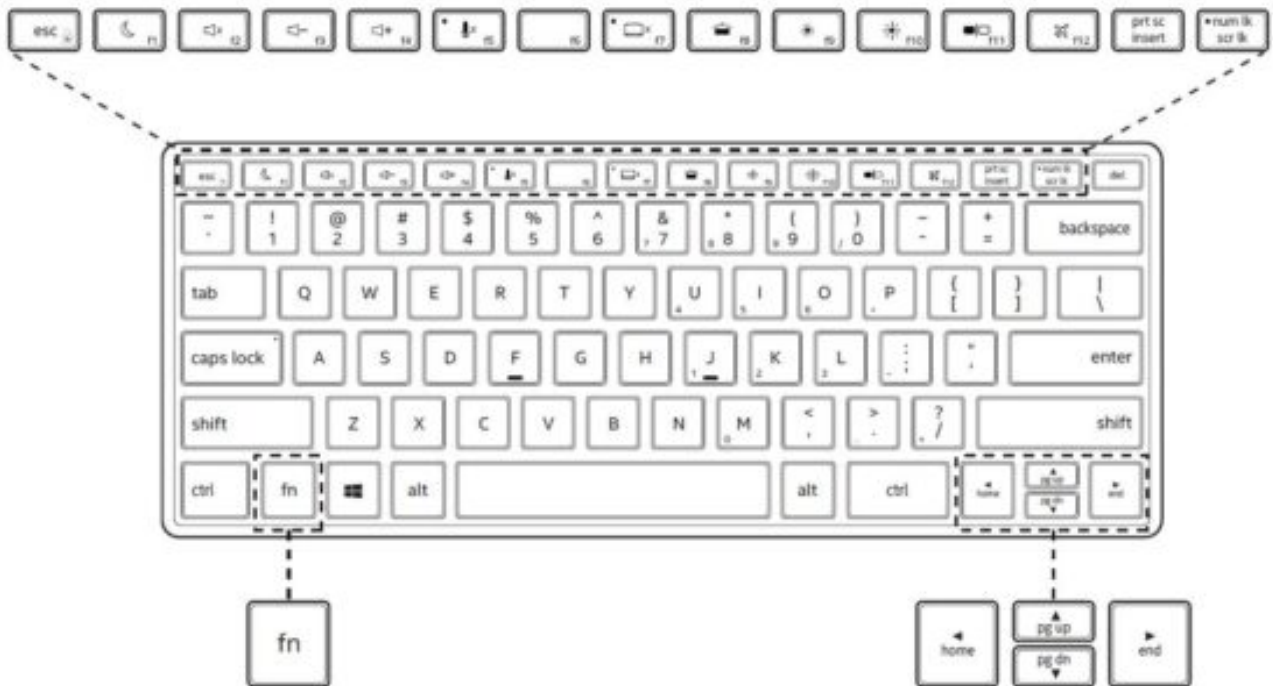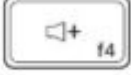
Understanding the UK Keyboard
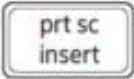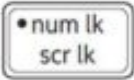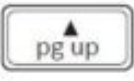
The following defines the row of function keys which also contain a secondary hotkeys/shortcuts which can be accessed by pressing and holding down the Function Key (FN) while simultaneously pressing the desired hotkey/shortcut.

Keyboard Shortcuts

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

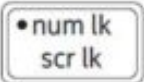|			
fn +	esc 🔒	**Function Lock:**	Press this key combination (fn + esc) to toggle control for primary/secondary Fn row assignment.
fn +	☾ f1	**Sleep:**	Press this key combination (fn + f1) to initiate low power state.
fn +	🔇× f2	**Mute Audio:**	Press this key combination (fn + f2) to toggle between mute and unmute.
fn +	🔉– f3	**Volume Down:**	Press this key combination (fn + f3) to turn the audio volume down.
fn +	🔊+ f4	**Volume Up:**	Press this key combination (fn + f4) to turn the audio volume up.
fn +	🎤× f5	**Mic Disable (Mute):**	Press this key combination (fn + f5) to toggle enable/disable for the integrated microphones. LED is illuminated when disabled.
fn +	▭× f7	**Clickpad Enable/Disable:**	Press this key combination (fn + f7) to toggle enable/disable for the clickpad. LED is illuminated when disabled.
fn +	▬ f8	**Keyboard Brightness:**	Press this key combination (fn + f8) to toggle control for keyboard brightness between off, 50%, full.
fn +	☀ f9	**Screen Brightness Down:**	Press this key combination (fn + f9) to decrease screen brightness.
fn +	☀ f10	**Screen Brightness Up:**	Press this key combination (fn + f10) to increase screen brightness.
fn +	▪▫ f11	**2nd Monitor Control:**	Press this key combination (fn + f11) to initiate secondary monitor display mode.
fn +	✈ f12	**Airplane Mode:**	Press this key combination (fn + f12) to turn Wireless and Bluetooth® on or off.

fn + prt sc / insert	**prt sc:**	Press this key combination (fn + prt sc) to send the current screen image to the printer.
fn + •num lk / scr lk	**num lk:**	Press this key combination (fn + num lk) to toggle enable/disable for the number lock. LED is illuminated when enabled.
fn + ▲ pg up	**Page Up:**	Press this key combination (fn + pg up) to enable standard page up.
fn + pg dn ▼	**Page Down:**	Press this key combination (fn +pg dn) to enable standard page down.
fn + ◄ home	**Home:**	Press this key combination (fn + home) to enable standard home.
fn + ► end	**End:**	Press this key combination (fn + end) to enable standard end.

•num lk / scr lk   Press **num lk** to enable the Embedded Keypad, LED will illuminate.

```
  &      *      (      )
 7 7    8 8    9 9    / 0

    U      I      O      P
    4      5      6      .

    J      K      L      : ;
    1 —    2      3    - '

    M             > .    ? /
    0            . ,    + /
```
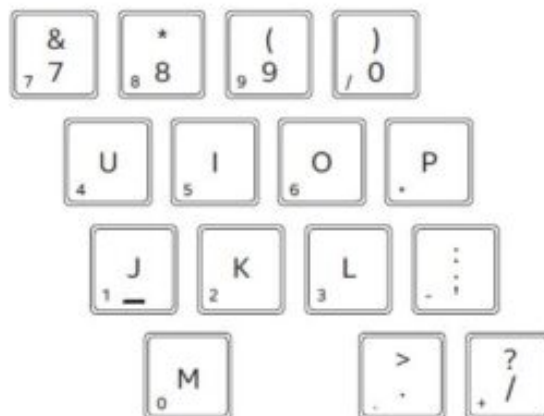
Using the Touchpad/Clickpad

The touchpad / clickpad is a rectangular electronic panel located just below your keyboard. Clicking twice within the 15mm x 15mm corner in the top left will enable or disable (lighted indicator) touchpad functionality. You can use the static-sensitive panel of the touchpad / clickpad and slide it to move the cursor.

Press the left and right bottom corners located on the bottom 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.

Touchpad/Clickpad

Click twice here to enable
or disable the touchpad

x2

Use these bottom corners
similar to mouse buttons

LEFT   RIGHT
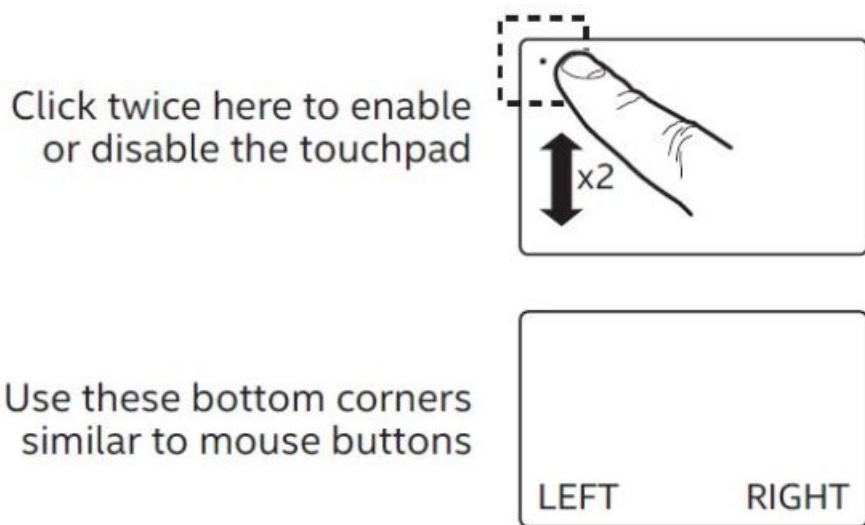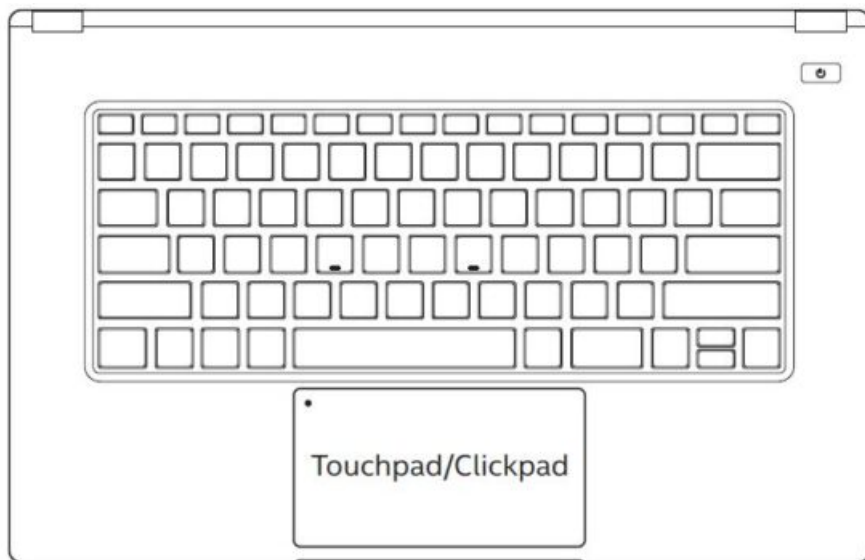
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Documents / Resources

intel. Intel® NUC M15 Laptop • LAPRC510 • LAPRC710 • LAPRC7V0 Safety and Caution Regulatory Information Regulatory Model: RC57	**Intel RC57 NUC M15 Laptop** [pdf] User Manual RC57 NUC M15 Laptop, NUC M15 Laptop, M15 Laptop, LAPRC510, LAPRC710, LAPRC7V0

References

- ▶ **Anatel — Agência Nacional de Telecomunicações**
- ⚠ **dtsc.ca.gov/hazardouswaste/perchlorate**

- ^{intel} **[Regulatory Documentation for Intel® NUC 9 Extreme Laptop Kits](#)**

- ^{intel} **[Regulatory Documentation for Intel® NUC 9 Extreme Laptop Kits](#)**