



TUF GAMING

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TUF GAMING | LAPTOP
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USER GUIDE
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The ASUS logo is rendered in a bold, black, sans-serif font. The 'A' is stylized with a diagonal slash through it.

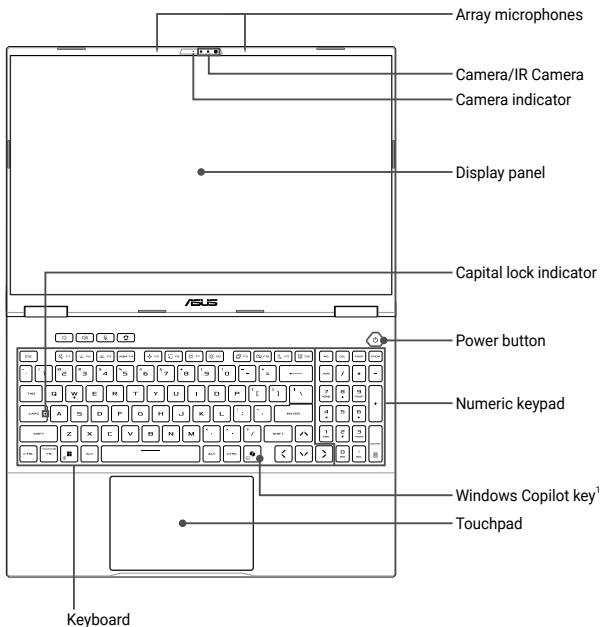
More info:



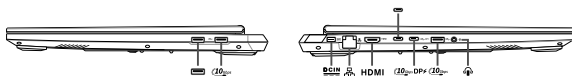
Front View

NOTE:

- The keyboard's layout may vary per region or country. The front view may also vary in appearance depending on the Notebook PC model.
- Closing the lid when the system is under high load forces your Notebook PC to go into sleep mode to prevent overheating.
- ¹Feature availability varies by market, see aka.ms/WindowsAIFeatures.



I/O ports and slots



USB 2.0 port



USB 3.2 Gen 2 port



Power (DC) input port



LAN port



HDMI output port



USB 4® port



USB 3.2 Gen 2 Type-C®/DisplayPort/
Power Delivery combo port



Headphone/Headset/Microphone
jack

IMPORTANT! To prevent any damage, use only power sources rated 20V/5A to charge your Notebook PC with the USB Power Delivery combo port. For more information, consult an ASUS service center for assistance.



The USB 5Gbps Port Logo is a trademark of the USB Implementers Forum, Inc.



The USB 10Gbps Port Logo is a trademark of the USB Implementers Forum, Inc.



The USB 20Gbps Port Logo is a trademark of the USB Implementers Forum, Inc.



The USB 40Gbps Port Logo is a trademark of the USB Implementers Forum, Inc.

Getting started

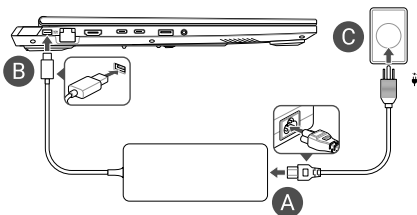
IMPORTANT! Do not use this Notebook PC for cryptocurrency mining (consuming a vast amount of electricity and time to gain convertible virtual currency) and/or related activities.

1. Charge your Notebook PC

- Connect the AC power cord to the AC/DC adapter.
- Connect the DC power connector into your Notebook PC's power (DC) input port.
- Plug the AC power adapter into a 100V~240V power source.

IMPORTANT! Use only the bundled power adapter to charge the battery pack and supply power to your Notebook PC.

NOTE: The power adapter may vary in appearance, depending on model and your region.



Charge the Notebook PC for **3 hours** before using it in battery mode for the first time.

2. Lift to open the display panel

3. Press the power button

Safety notices for your Notebook PC

WARNING!

Your Notebook PC can get warm to hot while in use or while charging the battery pack. Do not leave your Notebook PC on your lap or near any part of your body to prevent injury from heat. When working on your Notebook PC, do not place it on surfaces that can block the vents.

CAUTION!

- This Notebook PC should only be used in environments with ambient temperatures between 5°C (41°F) and 35°C (95°F).
- Refer to the rating label on the bottom of your Notebook PC and ensure that your power adapter complies with this rating.
- The power adapter may become warm to hot while in use. Do not cover the adapter and keep it away from your body while it is connected to a power source.

IMPORTANT!

- Ensure that your Notebook PC is connected to the power adapter before turning it on for the first time. Always plug the power cord into a wall socket without using any extension cords. For your safety, connect this device to a properly grounded electrical outlet only.
- When using your Notebook PC on power adapter mode, the socket outlet must be near to the unit and easily accessible.
- Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.
- Power adapter information:

Adapter type	AC/DC	USB Power Delivery (on selected models)
Input voltage	100-240Vac	100-240Vac
Input frequency	50-60Hz	50-60Hz
Rating output current	12A (240W) / 14A (280W)	5A (100W)
Rating output voltage	20V (240W) / 20V (280W)	20V

WARNING!

Read the following precautions for your Notebook PC's battery:

- Only ASUS-authorized technicians should remove the battery inside the device (for non-removable battery only).
- The battery used in this device may present a risk of fire or chemical burn if removed or disassembled.
- Follow the warning labels for your personal safety.
- Risk of explosion if battery is replaced by an incorrect type.
- Do not dispose of in fire.
- Never attempt to short-circuit your Notebook PC's battery.
- Never attempt to disassemble and reassemble the battery (for non-removable battery only).
- Discontinue usage if leakage is found.
- This battery and its components must be recycled or disposed of properly.
- Keep the battery and other small components away from children.

Avis concernant les batteries remplaçables

- La batterie de l'appareil peut présenter un risque d'incendie ou de brûlure si celle-ci est retirée ou désassemblée.
- La batterie et ses composants doivent être recyclés de façon appropriée.

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Service and Support

For complete E-Manual version, refer to our multi-language website at:
<https://www.asus.com/support/>

If you have any problems with your Notebook PC, please visit our website for troubleshooting.



MyASUS offers a variety of support features including troubleshooting, products performance optimization, ASUS software integration, and helps you to organize personal desktop and increase storage space. For more details, please visit <https://www.asus.com/support/FAQ/1038301/>.

Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm² or H05VV-F, 2G, 0.75mm².

Prevention of Hearing Loss

To prevent possible hearing damage, do not listen at high volume levels for long periods.



FCC RF Exposure Information

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels. 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/oet/ea/fccid.

FCC RF Caution Statement

WARNING! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC 5.925-7.125 GHz Caution Statement

Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

UL Safety Notices

- DO NOT use the Notebook PC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- DO NOT use the Notebook PC during an electrical storm. There may be a remote risk of electric shock from lightning.
- DO NOT use the Notebook PC in the vicinity of a gas leak.
- DO NOT dispose the Notebook PC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- DO NOT use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

Coating Notice

IMPORTANT! To provide electrical insulation and maintain electrical safety, a coating is applied to insulate the device except on the areas where the I/O ports are located.

Access Advance Patent Notice



India RoHS

This product complies with the "India E-Waste (Management) Rules, 2016" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.

Regional notice for Singapore

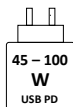
Complies with
IMDA Standards
DB103778

This ASUS product complies with IMDA Standards.

USB PD Fast Charging

The power delivered by the charger must be between min 45 Watts required by the radio equipment, and max 100 Watts in order to achieve the maximum charging speed.

*The above is a description of EU regulations (Radio Equipment Directive).



Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at <https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for countries listed in the table below:

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



Simplified UKCA Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of The Radio Equipment Regulations 2017 (S.I. 2017/1206). Full text of UKCA declaration of conformity is available at <https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for the country listed below:

UK

CE RED RF Output table (Directive 2014/53/EU)

FA608/FA808U

MT7922A22M

Function	Frequency	Maximum Output Power EIRP (mW)
WiFi	2.4 – 2.4835 GHz	<100
	5.15 – 5.35 GHz	<200
	5.47 – 5.725 GHz	<200
	5.725 – 5.875 GHz*	<25
	5.925 – 6.425 GHz	<200
Bluetooth	2.4 – 2.4835 GHz	<100

Receiver category 1

* Non-Intel modules: 5.725 - 5.85 GHz

RTL8852CE

Function	Frequency	Maximum Output Power EIRP (mW)
WiFi	2.4 – 2.4835 GHz	<100
	5.15 – 5.35 GHz	<200
	5.47 – 5.725 GHz	<200
	5.725 – 5.875 GHz*	<25
	5.925 – 6.425 GHz	<200
Bluetooth	2.4 – 2.4835 GHz	<100

Receiver category 1

* Non-Intel modules: 5.725 - 5.85 GHz

a. Low Power Indoor (LPI) Wi-Fi 5.945-6.425 GHz devices:

The device is restricted to indoor use only when operating in the 5945 to 6425 MHz frequency range in Austria (AT), Belgium (BE), Bulgaria (BG), Cyprus (CY), Czech Republic (CZ), Estonia (EE), France (FR), Germany (DE), Iceland (IS), Ireland (IE), Latvia (LV), Luxembourg (LU), Netherlands (NL), Norway (NO), Romania (RO), Slovakia (SK), Slovenia (SI), Spain (ES), Switzerland (CH).

b. Very Low Power (VLP) Wi-Fi 5.945-6.425 GHz devices (portable devices):

The device is not permitted to be used on Unmanned Aircraft Systems (UAS) when operating in the 5945 to 6425 MHz frequency range in Austria (AT), Belgium (BE), Bulgaria (BG), Cyprus (CY), Czech Republic (CZ), Estonia (EE), France (FR), Germany (DE), Iceland (IS), Ireland (IE), Latvia (LV), Luxembourg (LU), Netherlands (NL), Norway (NO), Romania (RO), Slovakia (SK), Slovenia (SI), Spain (ES), Switzerland (CH).

UKCA RF Output table (The Radio Equipment Regulations 2017)

FA608/FA808U

MT7922A22M

Function	Frequency	Maximum Output Power EIRP (mW)
WiFi	2.4 – 2.4835 GHz	<100
	5.15 – 5.35 GHz	<200
	5.47 – 5.725 GHz	<200
	5.725 – 5.875 GHz*	<25
	5.925 – 6.425 GHz	<200
Bluetooth	2.4 – 2.4835 GHz	<100

Receiver category 1

* Non-Intel modules: 5.725 - 5.85 GHz

RTL8852CE

Function	Frequency	Maximum Output Power EIRP (mW)
WiFi	2.4 – 2.4835 GHz	<100
	5.15 – 5.35 GHz	<200
	5.47 – 5.725 GHz	<200
	5.725 – 5.875 GHz*	<25
	5.925 – 6.425 GHz	<200
Bluetooth	2.4 – 2.4835 GHz	<100

Receiver category 1

* Non-Intel modules: 5.725 - 5.85 GHz

a. Low Power Indoor (LPI) Wi-Fi 5.945-6.425 GHz devices:

The device is restricted to indoor use only when operating in the 5925 to 6425 MHz frequency range in the UK.

b. Very Low Power (VLP) Wi-Fi 5.945-6.425 GHz devices (portable devices):

The device is not permitted to be used on Unmanned Aircraft Systems (UAS) when operating in the 5925 to 6425 MHz frequency range in the UK.

Federal Communications Commission Interference Statement

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 the 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.

FCC COMPLIANCE INFORMATION	
Per FCC Part 2 Section 2.1077	
	
Responsible Party:	Asus Computer International
Address:	48720 Kato Rd., Fremont, CA 94538
Phone/Fax No:	(510)739-3777/(510)608-4555
hereby declares that the product	
Product Name :	Notebook PC
Model Number :	FA608, TUF608, TUF668, FA608KP, FA608KM, FA608KH, FA608WP, FA608WM, FA608WH, FA608UP, FA608UM, FA608UH, TUF608KP, TUF608KM, TUF608KH, TUF608UP, TUF608UM, TUF608UH, TUF668KP, TUF668KM, TUF668KH, TUF668UP, TUF668UM, TUF668UH, FA688UM, FA688UP, FA688UH, FA808U, TUF808U, TUF868U, FA808UP, FA808UM, FA808UH, TUF808UP, TUF808UM, TUF808UH, TUF868UP, TUF868UM, TUF868UH
compliance 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.	
Ver. 100225	

ISED 5.925-7.125 GHz Caution Statement

RLAN devices:

Devices shall not be used for control of or communications with unmanned aircraft systems. Devices shall not be used on oil platforms. Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).

Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes; Les dispositifs ne doivent pas être utilisés sur les plateformes de forage pétrolier; Les dispositifs ne doivent pas être utilisés dans les aéronefs, à l'exception des points d'accès intérieurs de faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients de faible puissance et des dispositifs de très faible puissance fonctionnant dans la bande de 5 925 à 6 425 MHz, qui peuvent être utilisés dans les gros aéronefs tel qu'il est défini dans le Règlement de l'aviation canadien, et ce, lorsqu'ils volent à une altitude supérieure à 3 048 mètres (10 000 pieds).

ISED SAR Information

This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102. This equipment should be installed and operated with a minimum distance of 0 cm between the radiator & your body. This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. The end user must follow the specific operating instructions to satisfy RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body.

Cet EUT est la conforme avec SAR pour la population generale / les limites d'exposition incontrolées dans IC RSS-102. Cet équipement doit être installé et utilisé à une distance minimale de 0 cm entre le radiateur et votre corps. Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

