



CHROMEBOX 4

User Manual



E17334

First Edition

October 2020

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Contents

About this manual.....	4
Conventions used in this manual.....	5
Typography.....	5
Package contents	6

Getting to know your Chromebox

Features.....	10
Front view	10
Rear view.....	12

Using your Chromebox

Getting started	18
Connect the AC power adapter to your Chromebox.....	18
Connect a display panel to your device.....	20
Connect the USB cable from keyboard or mouse.....	22
Turn on your Chromebox.....	23

Appendix

Safety information.....	26
Setting up your system	26
Care during use.....	26
Regulatory notices	28
ASUS contact information.....	34

About this manual

This manual provides information about the hardware and software features of your Chromebox, organized through the following chapters:

Chapter 1: Getting to know your Chromebox

This chapter details the hardware components of your Chromebox.

Chapter 2: Using your Chromebox

This chapter provides you with information on using your Chromebox.

Appendix

This section includes notices and safety statements your Chromebox.

Conventions used in this manual

To highlight key information in this manual, some text are presented as follows:

IMPORTANT! This message contains vital information that must be followed to complete a task.

NOTE: This message contains additional information and tips that can help complete tasks.

WARNING! This message contains important information that must be followed to keep you safe while performing certain tasks and prevent damage to your Chromebox's data and components.

Typography

Bold text

Indicates a menu or an item to select.

Italic

This indicates sections that you can refer to in this manual.

Package contents

Your Chromebox package contains the following items:



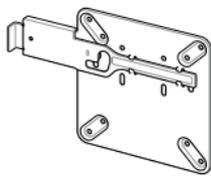
ASUS Chromebox 4



AC power adapter*



Power cord*



VESA mounting plate



VESA mounting plate screw set



Technical documents

NOTE:

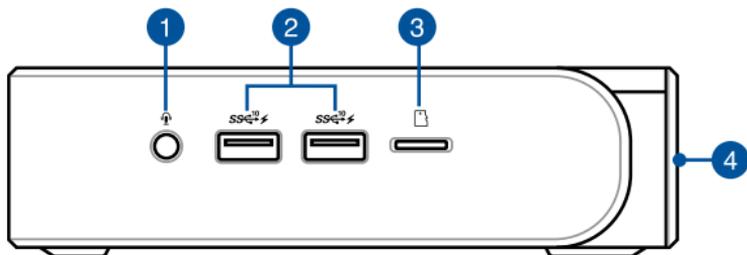
- *The bundled power adapter may vary by model and territories.
 - Some bundled accessories may vary with different models. For details on these accessories, refer to their respective user manuals.
 - The device illustration is for reference only. Actual product specifications may vary with models.
 - If the device or its components fail or malfunction during normal and proper use within the warranty period, bring the warranty card to the ASUS Service Center for replacement of the defective components.
-

1

***Getting to know your
Chromebox***

Features

Front view



1



Headphone/Headset/Microphone jack

This port allows you to connect amplified speakers or headphones. You can also use this port to connect your headset or an external microphone.

2

NOTE: This port may vary per model.



USB 3.2 Gen 2 port (on selected models)

The USB 3.2 Gen 2 (Universal Serial Bus) port provides a transfer rate up to 10 Gbit/s. These ports also support the Battery Charging 1.2 technology that allows you to charge your USB devices.



USB 3.2 Gen 1 port (on selected models)

The USB 3.2 Gen 1 (Universal Serial Bus) port provides a transfer rate up to 5 Gbit/s. These ports also support the Battery Charging 1.2 technology that allows you to charge your USB devices.

3



Memory card slot

The built-in memory card reader enables your Chromebox to read and write data to and from Micro SD cards.

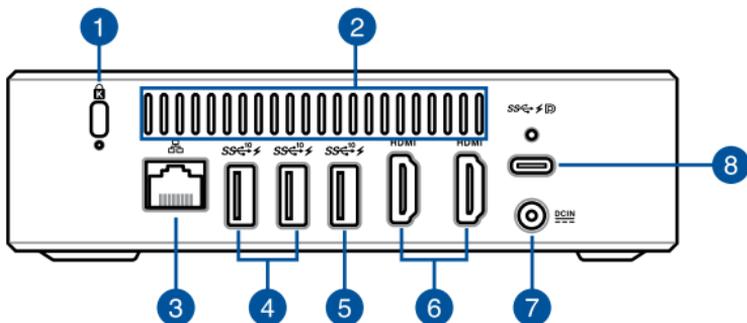
4



Power button

The power button allows you to turn the Chromebox on or off. You can use the power button to put your Chromebox to sleep mode or press it for four (4) seconds to force shutdown your Chromebox.

Rear view



1



Kensington security slot

The Kensington security slot allows you to secure your Chromebox using Kensington® security products.

2

Air vents

The air vents on the rear allow warm air to exit the Chromebox chassis.

IMPORTANT: For an optimum heat dissipation and air ventilation, ensure that the air vents are free from obstructions.

3



LAN port

The 8-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network.

4

NOTE: This port may vary per model.



USB 3.2 Gen 2 port (on selected models)

The USB 3.2 Gen 2 (Universal Serial Bus) port provides a transfer rate up to 10 Gbit/s.



USB 2.0 port (on selected models)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras and printers.

5

NOTE: This port may vary per model.



USB 3.2 Gen 2 port (on selected models)

The USB 3.2 Gen 2 (Universal Serial Bus) port provides a transfer rate up to 10 Gbit/s.



USB 3.2 Gen 1 port (on selected models)

The USB 3.2 Gen 1 (Universal Serial Bus) port provides a transfer rate up to 5 Gbit/s.

6

HDMI HDMI™ port

This port is for the HDMI™ (High-Definition Multimedia Interface) connector and is HDCP compliant for HD DVD, Blu-ray, and other protected content playback.

7

Power input

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the Chromebox. To prevent damage to the Chromebox, always use the supplied power adapter.

WARNING! The power adapter may become warm to hot when in use. Do not cover the adapter and keep it away from your body.

8

USB 3.2 Gen 1 Type-C®/DisplayPort combo port

This USB Type-C® (Universal Serial Bus) port provides the following:

- Transfer rate of up to 5 Gbit/s.
- Supports DisplayPort 1.2 (3840 x 2160) at 60Hz with 24-bit color. Use a USB Type-C® adapter to connect your Chromebox to an external display.
- USB power delivery with a maximum of 5V / 3A output.
- Supports power (DC) input when connected to an external device which is PD (Power Delivery) compliant and a 20V / 5A output.

CAUTION!

- To reduce potential safety issues, only the AC adapter provided with the product, a replacement AC adapter provided by agency, or an AC adapter purchased as an accessory from agency should be used with the product.
 - When using the USB 3.2 Gen 1 Type-C® port as a power (DC) input port, ensure to remove the cable from the Power input port.
 - Ensure to power off your device when switching between the USB 3.2 Gen 1 Type-C® port and Power input port.
-

2

Using your Chromebox

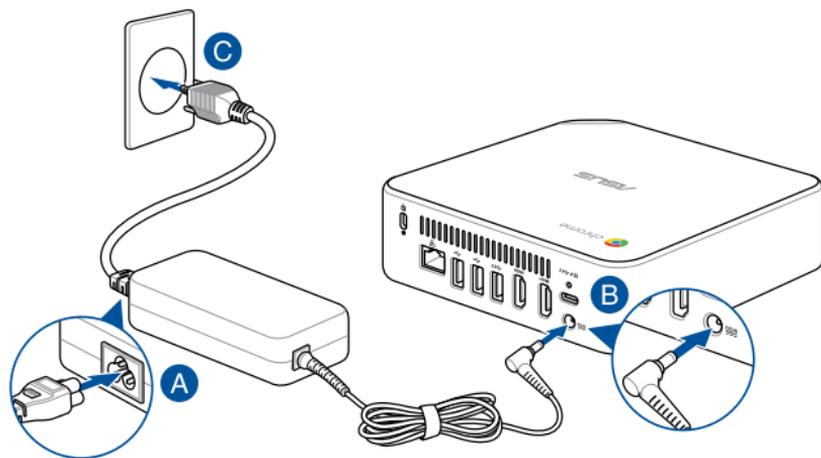
Getting started

Connect the AC power adapter to your Chromebox

To connect the AC power adapter to your Chromebox:

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

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



IMPORTANT!

- We strongly recommend that you use only the AC power adapter and cable that came with your Chromebox.
 - We strongly recommend that you use a grounded wall socket while using your Chromebox.
 - The socket outlet must be easily accessible and near your Chromebox.
 - To disconnect your Chromebox from its main power supply, unplug your Chromebox from the power socket.
-

NOTE:

The power adapter may vary between models and territories, please refer to the following for more information on the different adapters:

65W Power adapter

- Input voltage: 100-240 Vac
- Input frequency: 50-60 Hz
- Rating output current: 3.42A / 3.33A (65.0 W)
- Rating output voltage: 19.0V / 19.5V

90W Power adapter

- Input voltage: 100-240 Vac
 - Input frequency: 50-60 Hz
 - Rating output current: 4.62A (90.0 W)
 - Rating output voltage: 19.5V
-

Connect a display panel to your device

You can connect a display panel or projector to your device that has the following connectors:

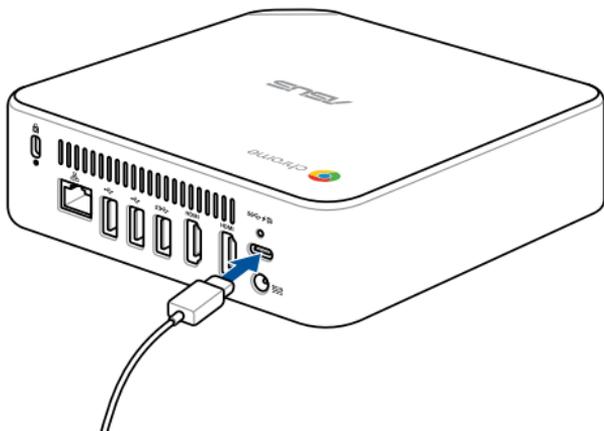
- HDMI™ connector
- USB Type-C®/DisplayPort connector

NOTE: These ports may vary per model.

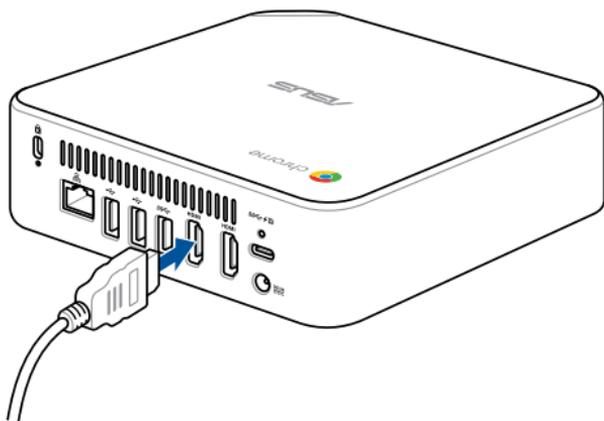
To connect a display panel to your Chromebox:

Connect one end of a HDMI™ or USB Type-C® cable to an external display, and the other end of the cable to your Chromebox's HDMI™ port or USB 3.2 Gen 1 Type-C®/DisplayPort combo port.

Connect display via HDMI™ port



Connect display via USB 3.2 Gen 1 Type-C®/DisplayPort combo port



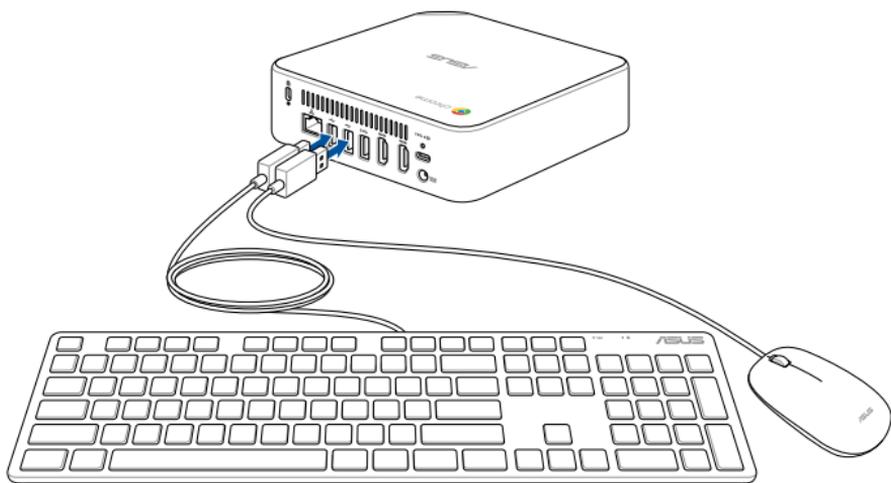
Connect the USB cable from keyboard or mouse

You can connect generally any USB keyboard and mouse to your Chromebox. You can also connect a USB dongle for a wireless keyboard and mouse set.

To connect a keyboard and mouse to your Chromebox:

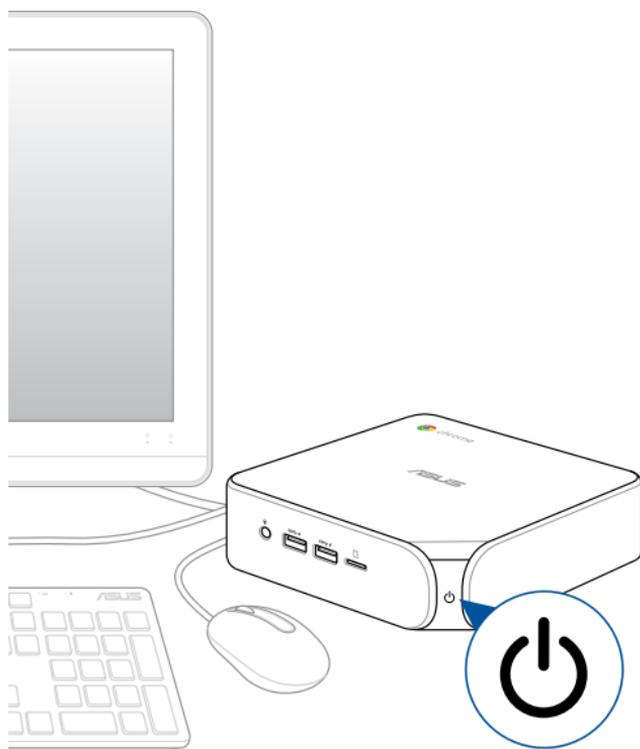
Connect the USB cable from your keyboard and mouse to any of the USB ports of your Chromebox.

NOTE: The keyboard varies with country or region.



Turn on your Chromebox

Press the power button to turn on your Chromebox.



Appendix

Safety information

Your Chromebox is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heated source.
- Set up the system on a stable surface.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between 0°C and 35°C.
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.
- This product should be connected by means of a power cord to a socket-outlet with earthing connection.
- This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows. Always unplug the power cord from the power outlets before cleaning the system.

- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
 - The power cord or plug is damaged.
 - Liquid has been spilled into the system.
 - The system does not function properly even if you follow the operating instructions.
 - The system was dropped or the cabinet is damaged.
 - The system performance changes.
- Avoid contact with hot components inside the device. During operation, some components become hot enough to burn the skin. Before you open the device cover, turn off the device, disconnect the power, and wait approximately 30 minutes for the components to cool.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Lithium-Metal Battery Warning

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

NO DISASSEMBLY

The warranty does not apply to the products that have been disassembled by users

Regulatory notices

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.

Federal Communications Commission Statement

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

- This device may not cause harmful interference, and
- 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 manufacturer's 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 to 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.

IMPORTANT! Outdoor operations in the 5.15~5.25 GHz band is prohibited. This device has no Ad-hoc capability for 5250~5350 and 5470~5725 MHz.

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

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

ISED Radiation Exposure Statement for Canada

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with ISED RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Operation is subject to the following two conditions:

- This device may not cause interference and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with Innovation, Science and Economic Development 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.

CAN ICES-3(B)/NMB-3(B)

Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.

CAN ICES-3(B)/NMB-3(B)

Wireless Operation Channel for Different Domains

N. America	2.412-2.462 GHz	Ch01 through CH11
Japan	2.412-2.484 GHz	Ch01 through Ch14
Europe ETSI	2.412-2.472 GHz	Ch01 through Ch13

Regional notice for California



WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

Declaration of compliance for product environmental regulation

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

Please refer to <http://csr.asus.com/Compliance.htm> for information disclosure based on regulation requirements ASUS is complied with:

EU REACH and Article 33

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at

<http://csr.asus.com/english/REACH.htm>

EU RoHS

This product complies with the EU RoHS Directive. For more details, see <http://csr.asus.com/english/article.aspx?id=35>

Japan JIS-C-0950 Material Declarations

Information on Japan RoHS (JIS-C-0950) chemical disclosures is available on <http://csr.asus.com/english/article.aspx?id=19>

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.

Vietnam RoHS

ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT.

Các sản phẩm ASUS bán tại Việt Nam, vào ngày 23 tháng 9 năm 2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

Turkey RoHS

AEEE Yönetmeliğine Uygundur

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <http://csr.asus.com/english/Takeback.htm> for detailed recycling information in different regions.

Ecodesign Directive

European Union announced a framework for the setting of ecodesign requirements for energy-related products (2009/125/EC). Specific Implementing Measures are aimed at improving environmental performance of specific products or across multiple product types. ASUS provides product information on the CSR website. The further information could be found at <https://csr.asus.com/english/article.aspx?id=1555>.



DO NOT throw the device in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment, and mercury-containing button cell battery) should not be placed in municipal waste. Check local technical support services for product recycling.

ENERGY STAR complied product

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.



All ASUS products with the ENERGY STAR logo comply with the ENERGY STAR standard, and the power management feature is enabled by default. The monitor and computer are automatically set to sleep within 10 and 30 minutes of user inactivity. To wake your computer, click the mouse or press any key on the keyboard.

Please visit <http://www.energystar.gov/powermanagement> for detail information on power management and its benefits to the environment. In addition, please visit <http://www.energystar.gov> for detail information on the ENERGY STAR joint program.

NOTE: Energy Star is NOT supported on FreeDOS and Linux-based products.

EPEAT (Electronic Product Environmental Assessment Tool) registered products

The public disclosure of key environmental information for ASUS EPEAT registered products is available on CSR web site <http://csr.asus.com/english/article.aspx?id=41>. More information about EPEAT program and purchaser guidance can be found on the EPEAT website www.epeat.net.

ASUS contact information

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Support fax	+1-812-284-0883
Telephone	+1-812-282-2787
Online support	https://www.asus.com/support/Product/ContactUs/Services/questionform/?lang=en-us

ASUS COMPUTER GmbH (Germany and Austria)

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Web site	https://www.asus.com/de
Online contact	https://www.asus.com/support/Product/ContactUs/Services/questionform/?lang=de-de

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Telephone (AT)	+43-1360-2775461
Online support	https://www.asus.com/de/support

Call center:	https://www.asus.com/support/CallUs
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