



Chromebox CN60

User Guide

E9174

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March 2014

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About this user guide

This user guide 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.

Appendices

This section includes notices and safety statements for your Chromebox.

Conventions used in this user guide

To highlight key information in this user guide, 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

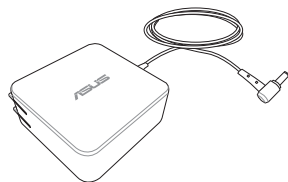
This indicates sections that you can refer to in this user guide.

Package contents

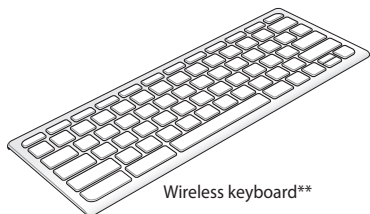
Your Chromebox package contains the following items:



Chromebox CN60



AC power adapter*



Wireless keyboard**



Technical documentations



Wireless mouse**



USB dongle for wireless keyboard and mouse**

NOTES:

- *The bundled power adapter may vary with territories.
 - **The availability of these accessories may vary with your Chromebox package.
 - Some bundled accessories may vary with different models. For details on these accessories, refer to their respective user manuals.
 - 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.
-

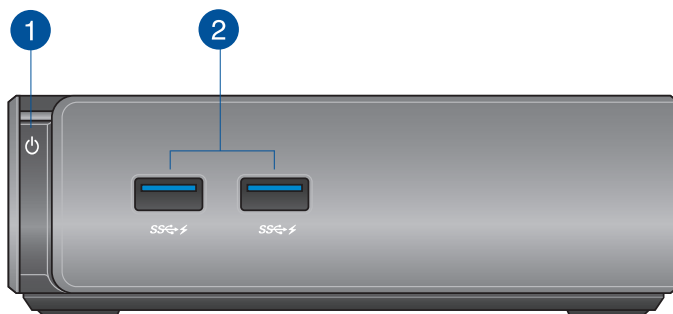
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

1

***Getting to know your
Chromebox***

Features

Front view



1



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.

IMPORTANT! Forcing the system to restart may result to data loss. We strongly recommend that you back up your data regularly.

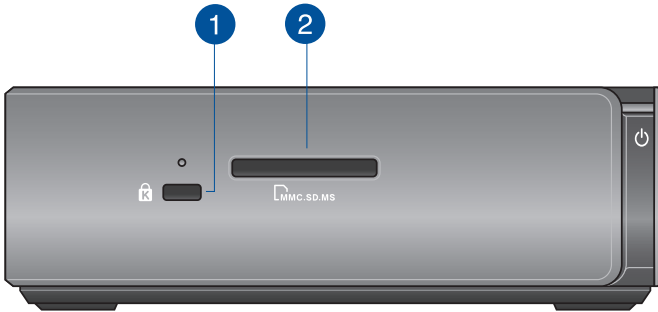
2



USB 3.0 ports

These USB (Universal Serial Bus) 3.0 ports provide a transfer rate of up to 5 Gbit/s and are backward compatible with USB 2.0. These ports also support the Battery Charging 1.2 technology that allows you to charge your USB devices.

Left side view



1



Kensington security slot

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

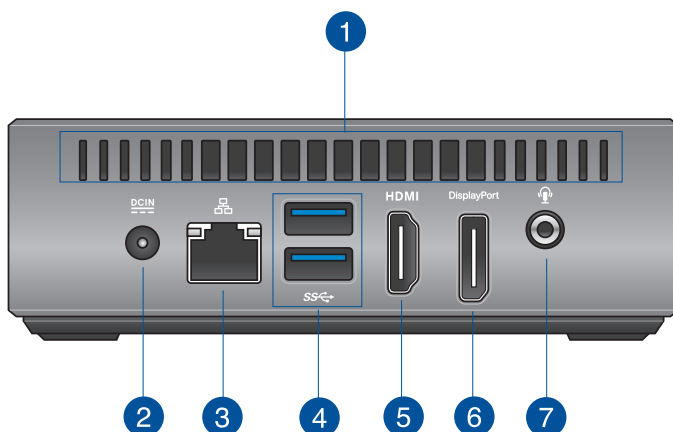
2



Memory card slot

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

Rear view



1

Air vents

The air vents allow cooler air to enter your Chromebox chassis.

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

2




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.

- 3



LAN port

The 8-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network.
- 4



USB 3.0 ports

These USB (Universal Serial Bus) 3.0 ports provide a transfer rate of up to 5 Gbit/s and are backward compatible with USB 2.0.
- 5

HDMI


HDMI port

The HDMI (High Definition Multimedia Interface) port supports a Full-HD device such as an LCD TV or monitor to allow viewing on a larger external display.
- 6

DisplayPort

DisplayPort

The DisplayPort sends high-performance digital output from your Chromebox to a display device such as an LCD TV or HD monitor.
- 7



Headphone/Audio Out jack

The stereo headphone jack is used to connect the system's audio out signal to amplified speakers or headphones.

This image shows a full page of blank, lined paper. It features approximately 20 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

2

Using your Chromebox

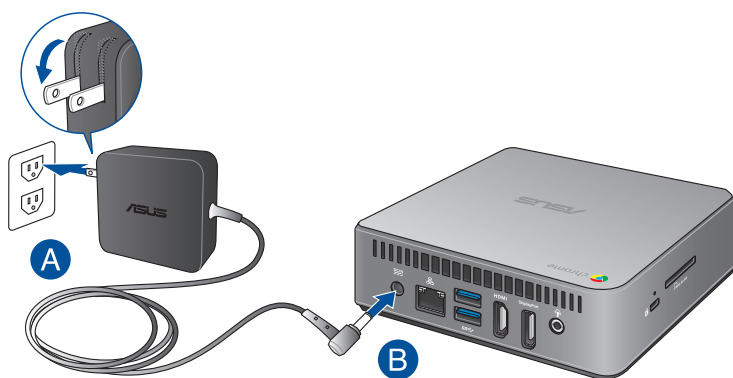
Getting started

Connect the AC power adapter to your Chromebox

To connect the AC power adapter to your Chromebox:

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

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:

Power adapter information:

- Input voltage: 100-240 Vac
 - Input frequency: 50-60 Hz
 - Rating output current: 3.42 A (65 W)
 - Rating output voltage: 19 V
-

Connect a display panel to your Chromebox

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

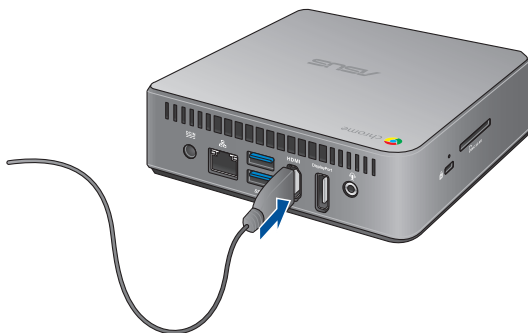
- HDMI connector
- DisplayPort
- DVI connector (used with an HDMI–DVI adapter)

NOTE: The HDMI–DVI adapter is sold separately.

To connect a display panel to your Chromebox:

Connect a display cable either to the HDMI port or the DisplayPort.

Connect display via HDMI port



Connect display via DisplayPort



Connect the wireless keyboard and mouse

Connect the USB dongle to use the bundled wireless keyboard and mouse.

NOTE: You can also connect any USB keyboard and mouse to your Chromebox.

To connect a keyboard and mouse to your Chromebox:

Connect the USB dongle of your keyboard and mouse to any of the USB 3.0 ports on the rear side of your Chromebox.

Connect the USB dongle of the keyboard and mouse via the USB 3.0 port



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 to 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.

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.

Lithium-Ion 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



DO NOT throw the Chromebox 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.

Regulatory notices

REACH

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>.

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 the detailed recycling information in different regions.

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.

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.

Declaration of Conformity (R&TTE directive 1999/5/EC)

The following items were completed and are considered relevant and sufficient:

- Essential requirements as in [Article 3]
- Protection requirements for health and safety as in [Article 3.1a]
- Testing for electric safety according to [EN 60950]
- Protection requirements for electromagnetic compatibility in [Article 3.1b]
- Testing for electromagnetic compatibility according to [EN 301 489-1] & [EN 301 489-17]
- Effective use of the radio spectrum as in [Article 3.2]
- Radio test suites according to [EN 300 328-2]

France Restricted Wireless Frequency Bands

Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are:

- 10 mW for the entire 2.4 GHz band (2400 MHz–2483.5 MHz)
- 100 mW for frequencies between 2446.5 MHz and 2483.5 MHz

NOTE: Channels 10 through 13 inclusive operate in the band 2446.6 MHz to 2483.5 MHz.

There are few possibilities for outdoor use: On private property or on the private property of public persons, use is subject to a preliminary authorization procedure by the Ministry of Defense, with maximum authorized power of 100mW in the 2446.5–2483.5 MHz band. Use outdoors on public property is not permitted.

In the departments listed below, for the entire 2.4 GHz band:

- Maximum authorized power indoors is 100 mW
- Maximum authorized power outdoors is 10 mW

Departments in which the use of the 2400–2483.5 MHz band is permitted with an EIRP of less than 100 mW indoors and less than 10 mW outdoors:

01	Ain	02	Aisne	03	Allier
05	Hautes Alpes	08	Ardennes	09	Ariège
11	Aude	12	Aveyron	16	Charente
24	Dordogne	25	Doubs	26	Drôme
32	Gers	36	Indre	37	Indre et Loire
41	Loir et Cher	45	Loiret	50	Manche
55	Meuse	58	Nièvre	59	Nord
60	Oise	61	Orne	63	Puy du Dôme
64	Pyrénées Atlantique	66	Pyrénées Orientales	67	Bas Rhin
70	Haute Saône	71	Saône et Loire	75	Paris
82	Tarn et Garonne	84	Vaucluse	88	Vosges
89	Yonne	90	Territoire de Belfort	94	Val de Marne

This requirement is likely to change over time, allowing you to use your wireless LAN card in more areas within France. Please check with ART for the latest information (www.art-telecom.fr).

NOTE: Your WLAN Card transmits less than 100 mW, but more than 10 mW.

Canadian Department of Communications 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 class B digital apparatus complies with Canadian ICES-003.

IC Radiation Exposure Statement for Canada

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC 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.

CE Mark Warning



CE marking for devices without wireless LAN/Bluetooth

The shipped version of this device complies with the requirements of the EEC directives 2004/108/EC “Electromagnetic compatibility” and 2006/95/EC “Low voltage directive”.



CE marking for devices with wireless LAN/ Bluetooth

This equipment complies with the requirements of Directive 1999/5/EC of the European Parliament and Commission from 9 March, 1999 governing Radio and Telecommunications Equipment and mutual recognition of conformity.

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

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 after 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.energy.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.

ASUS contact information

ASUSTeK COMPUTER INC.

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Telephone +886-2-2894-3447
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Fax +86-21-58668722, ext. 9101#
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Web site <http://www.asus.com/us/>

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Online support <http://www.service.asus.com/>

ASUS COMPUTER GmbH (Germany and Austria)

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Fax +49-2102-959931
Web site <http://www.asus.com/de>
Online contact <http://eu-rma.asus.com/sales>

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Support Fax +49-2102-959911
Online support <http://www.asus.com/de/support/>

Manufacturer	ASUSTeK Computer Inc.	
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	Address:	No. 150, LI-TE RD., PEITOU, TAIPEI 112, TAIWAN
Authorised representative in Europe	ASUSTeK Computer GmbH	
	Address:	HARKORT STR. 21-23, 40880 RATINGEN, GERMANY

EC Declaration of Conformity



We, the undersigned,

Manufacturer:	ASUSTeK COMPUTER INC.
Address, City:	4F, No. 150, Li-TE Rd., PEITOU, TAIPEI 112, TAIWAN
Country:	TAIWAN
Authorized representative in Europe:	ASUS COMPUTER GmbH
Address, City:	HARKORT STR. 21-23, 40880 RATINGEN
Country:	GERMANY

declare the following apparatus:

Product name :	Chromebox
Model name :	Chromebox XXXXXXXXXXXXXXXXXXXX (X can be 0-9,a-z,A-Z,-, / or blank)

conform with the essential requirements of the following directives:

☒ 2004/108/EC-EMC Directive

<input checked="" type="checkbox"/> EN 55022:2010+AC:2011	<input checked="" type="checkbox"/> EN 55024:2010
<input checked="" type="checkbox"/> EN 61000-3-2:2006+A2:2009	<input checked="" type="checkbox"/> EN 61000-3-3:2008
<input type="checkbox"/> EN 55013:2001+A1:2003+A2:2006	<input type="checkbox"/> EN 55020:2007+A11:2011

☒ 1999/5/EC-R & TTE Directive

<input checked="" type="checkbox"/> EN 300 328 V1.7.1(2006-10)	<input checked="" type="checkbox"/> EN 301 489-1 V1.9.2(2011-09)
<input type="checkbox"/> EN 300 440-1 V1.6.1(2010-08)	<input type="checkbox"/> EN 301 489-3 V1.4.1(2002-08)
<input type="checkbox"/> EN 300 440-2 V1.4.1(2010-08)	<input type="checkbox"/> EN 301 489-4 V1.4.1(2009-05)
<input type="checkbox"/> EN 301 511 V9.0.2(2003-03)	<input type="checkbox"/> EN 301 489-7 V1.3.1(2005-11)
<input type="checkbox"/> EN 301 908-1 V5.2.1(2011-05)	<input type="checkbox"/> EN 301 489-9 V1.4.1(2007-11)
<input type="checkbox"/> EN 301 908-2 V5.2.1(2011-07)	<input checked="" type="checkbox"/> EN 301 489-17 V2.2.1(2012-09)
<input checked="" type="checkbox"/> EN 301 893 V1.6.1(2011-11)	<input type="checkbox"/> EN 301 489-24 V1.5.1(2010-09)
<input type="checkbox"/> EN 302 544-2 V1.1.1(2009-01)	<input type="checkbox"/> EN 302 326-2 V1.2.2(2007-06)
<input type="checkbox"/> EN 302 623 V1.1.1(2009-01)	<input type="checkbox"/> EN 302 326-3 V1.3.1(2007-09)
<input type="checkbox"/> EN 50360:2001	<input type="checkbox"/> EN 301 357-2 V1.4.1(2008-11)
<input type="checkbox"/> EN 62479:2010	<input type="checkbox"/> EN 302 291-1 V1.1.1(2005-07)
<input type="checkbox"/> EN 50385:2002	<input type="checkbox"/> EN 302 291-2 V1.1.1(2005-07)
<input type="checkbox"/> EN 62311:2008	

☒ 2006/95/EC-LVD Directive

<input checked="" type="checkbox"/> EN 60950-1 / A12:2011	<input type="checkbox"/> EN 60065:2002 / A12:2011
---	---

☒ 2009/125/EC-ErP Directive

<input checked="" type="checkbox"/> Regulation (EC) No. 1275/2008	<input type="checkbox"/> Regulation (EC) No. 278/2009
<input type="checkbox"/> Regulation (EC) No. 642/2009	<input type="checkbox"/> Regulation (EC) No. 617/2013

☒ 2011/65/EU-RoHS Directive

Ver. 130816

☒ CE marking



(EC conformity marking)

Position : CEO

Name : Jerry Shen

Declaration Date: 27/02/2014

Year to begin affixing CE marking: 2014

Signature : _____

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



Responsible Party Name: Asus Computer International

Address: 800 Corporate Way, Fremont, CA 94539.

Phone/Fax No: (510)739-3777/(510)608-4555

hereby declares that the product

Product Name : Chromebox

Model Number : Chromebox XXXXXXXXXXXXXXXXXXXXXXXX
(X can be 0~9,a~z,A~Z,- , / or blank)

Conforms to the following specifications:

☒ FCC Part 15, Subpart B, Unintentional Radiators

Supplementary Information:

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.

Representative Person's Name : Steve Chang / President

A handwritten signature in blue ink that reads "Steve Chang". The signature is written in a cursive, flowing style.

Signature :

Date : Feb. 27, 2014

Ver. 120601

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.