Chromebox 6a Series

User Guide

Regulatory Model: CN67-S2

HIGH-DEFINITION MULTIMEDIA INTERFACE

E28227
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Important information

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Visit our multi-language website at https://www.asus.com/support/.

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About this guide

This user guide includes information on the following SKUs:

- **Chromebox**
  (Memory and M.2 solid state drive already included in the Chromebox; ChromeOS included):
  Specifications and steps to set up your Chromebox.

Audience

This user guide is intended to provide basic setup information about the Chromebox and components to vendors, system integrators, and other engineers and technicians who need this level of information.

Conventions used in this guide

To highlight key information in this manual, some text is 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.

Other Common Notations

Abbrev.	Description
#	Used after a signal name to identify an active-low signal (such as USBP0#)
GB	Gigabyte (1,073,741,824 bytes)
GB/s	Gigabytes per second
Gb/s	Gigabits per second
KB	Kilobyte (1024 bytes)
Kb	Kilobit (1024 bits)
kb/s	1000 bits per second
MB	Megabyte (1,048,576 bytes)
MB/s	Megabytes per second
Mb	Megabit (1,048,576 bits)
Mb/s	Megabits per second
TDP	Thermal Design Power
xxh	An address or data value ending with a lowercase h indicates a hexadecimal value.
x.x V	Volts. Voltages are DC unless otherwise specified.
x.x A	Amperes.

Production identification information

ASUSTeK Chromebox Product Chromebox 6a Identification Information

Product Name	Chromebox 6a
CN67-S2	Chromebox

Where to find more information

Refer to the following source(s) for additional information and for product and software updates.

ASUS website

The ASUS website (www.asus.com) provides updated information on ASUS hardware and software products.

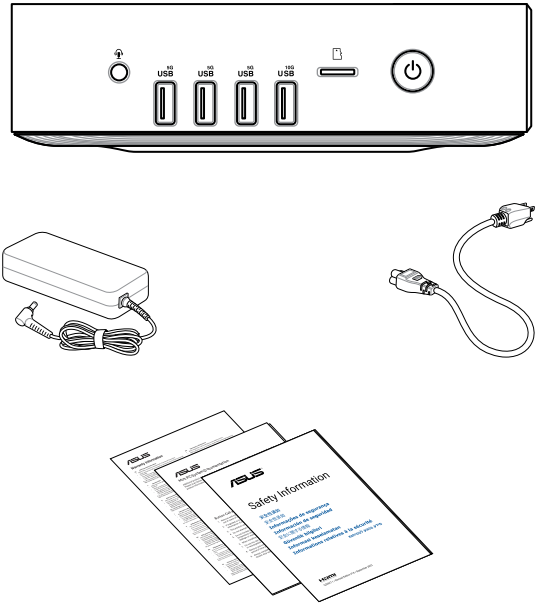
Safety and caution information

- Accessories that came with this product have been designed and verified for the use in connection with this product. Never use accessories from other products to prevent the risk of electric shock or fire.
- 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.
- Modification of the wireless solution, thermal solution, device components or enclosure shall violate regulatory compliance requirements and may induce safety hazards.



Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

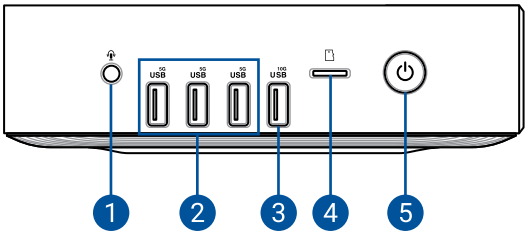
Package contents



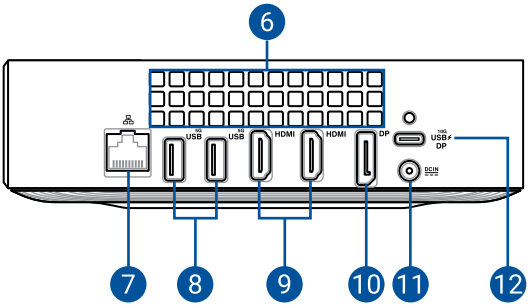
NOTE:

- The most up-to-date and accurate product specifications are available on www.asus.com for download.
- Product and accessory images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
- The bundled power adapter may vary depending on the model and the country (or region) of sale.
- Some bundled accessories may vary depending on the model. 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.

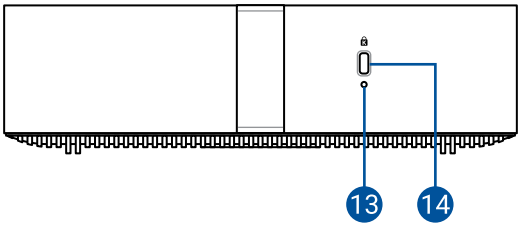
Front view



Rear view



Right view



1. Headphone/Headset/Microphone jack
2. USB 5Gbps Type-A ports
3. USB 10Gbps Type-A port
4. Memory card slot
5. Power button
6. Air vents
7. LAN port
8. USB 5Gbps Type-A ports
9. HDMI ports
10. DisplayPort
11. Power input jack
12. USB 10Gbps Type-C® port with support for DisplayPort and power delivery input
13. Recovery button hole
14. Kensington® security slot

USB Type-C® specifications:

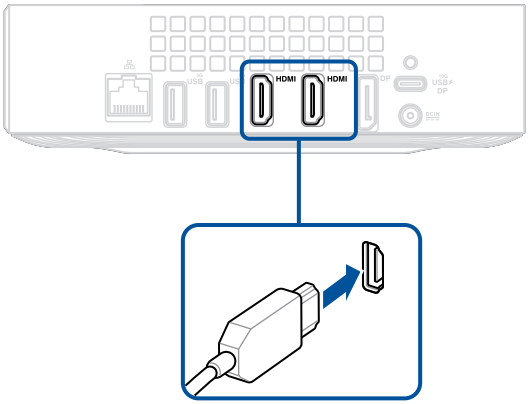
Port	Details	
USB 10Gbps with power delivery input	Type-C® output support	DP1.4 (HBR3)
	Power over Type-C®	15W (output)
	Power profile support	5V @ 3A (output)
	Power delivery input*	90W (20V @ 4.5A) (input)

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

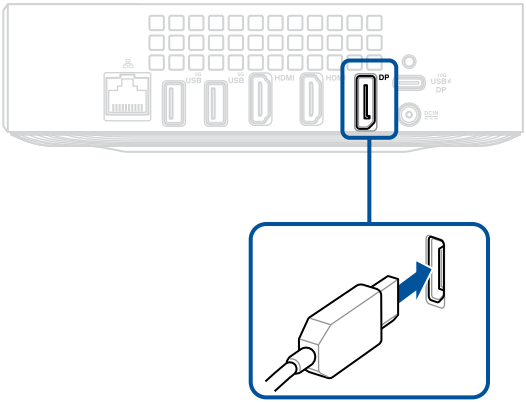
Chromebox setup guide

Connecting the display

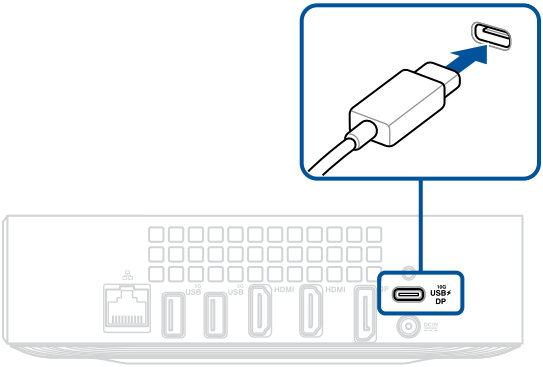
HDMI port



DisplayPort



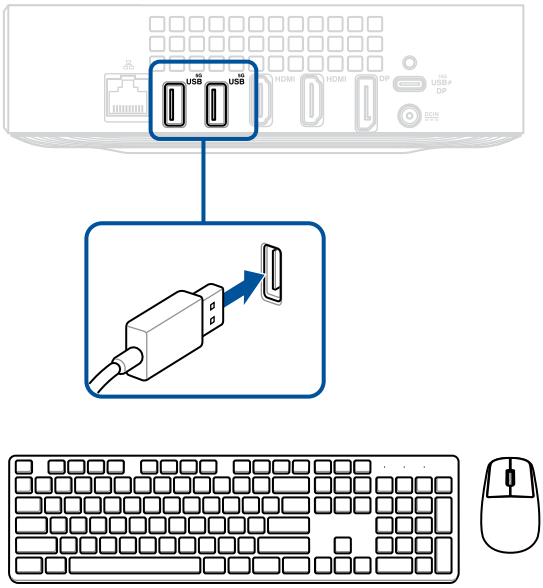
USB Type-C® port



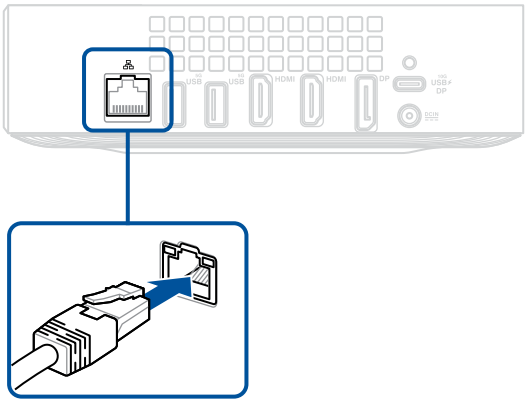
Display resolution table:

Port	Video Output	Max. Resolution
HDMI	HDMI 2.1 (FRL6)	4K (3840 x 2160) @ 60Hz
DisplayPort	DisplayPort 1.4 (HBR3)	4K (3840 x 2160) @ 60Hz
DisplayPort over USB-C®	DisplayPort 1.4 (HBR3)	4K (3840 x 2160) @ 60Hz

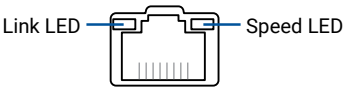
Connecting the keyboard and mouse



Connecting the LAN cable



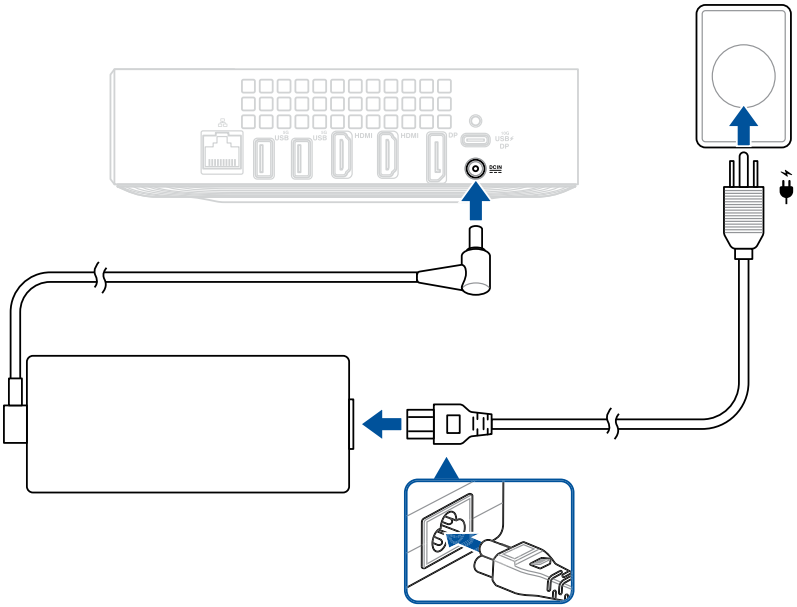
LAN port LED indications:



Link LED	
Status	**Description**
OFF	No link
GREEN	Linked
BLINKING	Data activity

Speed LED	
Status	**Description**
OFF	100 Mbps / 10 Mbps connection
YELLOW	1 Gbps connection
GREEN	2.5 Gbps connection

Connecting the power adapter



NOTE:

- Please refer to the following for more information on the adapter and the system:

  90W Power adapter (option 1)

  - Input voltage: 100-240 Vac
  - Input frequency: 50-60 Hz
  - Output current: 4.62 A (90.0 W)
  - Output voltage: 19.5 Vdc
  - Rated for use between 0°C and 35°C (32°F and 95°F)

  System

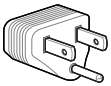
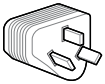
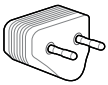
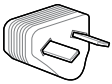
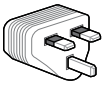
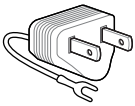
  - Rated input current: 4.62 A (90.0 W)
  - Rated input voltage: 19.5 Vdc
  - Operating temperature: 0˚C to 35˚C (32°F to 95°F)

  90W Power adapter (option 2)

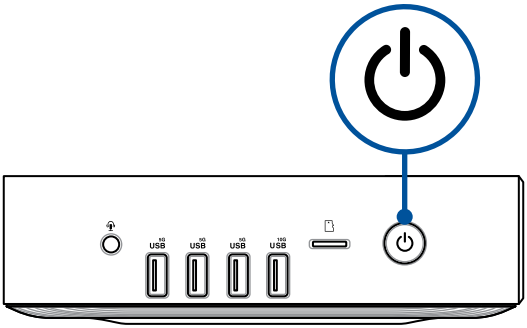
  - Input voltage: 100-240 Vac
  - Input frequency: 50-60 Hz
  - Output current: 4.74 A (90.0 W)
  - Output voltage: 19.0 Vdc
  - Rated for use between 0°C and 35°C (32°F and 95°F)

  System

  - Rated input current: 4.74 A (90.0 W)
  - Rated input voltage: 19.0 Vdc
  - Operating temperature: 0˚C to 35˚C (32°F to 95°F)

Plug	Code	Country
	US	United States
	CN	China
	EU	European Union
	AU	Australia
	UK	United Kingdom
	JP	Japan (Type-A)
	IN	India

Powering on the system



Tips and FAQs

Useful tips for your Chromebox

To help you maximize the use of your Chromebox, maintain its system performance, and ensure all your data are kept secured, here are some useful tips that you can follow:

- Unless absolutely necessary, refrain from using force shutdown to turn off your Chromebox.
- Always backup your data and make it a point to create a backup data in an external storage drive.
- Disconnect all external devices and make sure that you have the following items prior to resetting your Chromebox:
  - Backup data
  - Log in ID and password
  - Internet connection information

NOTE: The power adapter may vary in appearance, depending on the model and the country (or region) of sale.

Software FAQs

1. **What software works on a Chromebox?**

   Chromeboxes use apps from the Google Play Store and on the web. There are apps to be productive, get creative, enjoy movies and shows, play games and more.

2. **How do I get more apps?**

   You can get more apps from the Google Play Store or the web.

3. **Can I use Microsoft Office software?**

   Chromeboxes work with Microsoft® Office. Whether it's Word, Excel® or PowerPoint®, you can easily find the apps on the web.

4. **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".

5. **How do I transfer my local files?**

   Transfer your local files using a compatible storage device. Your Chromebox works with most external storage devices (e.g., USB thumb drives and removable hard drives).

   You can also upload your files, photos, and videos to Google Drive. After setting up your Chromebox with your Google Account, you'll be able to access your files on Drive.

6. **Why does my Chromebox need my Google Account information?**

   You'll use your Google Account to sign in to your Chromebox. It is the same account you use for Google services, such as Gmail and Drive. Your Chromebox uses your account information to automatically sign you into apps and services.

7. **How do I set this up for my child?**

   If you want to set up parental controls for your child, it's important that you sign in using your child's personal Google Account. If they don't already have one, you can create one during the sign-in process on your Chromebox. You will be able to add your child's school account after you complete device onboarding.

Safety Information and Care Instructions

IMPORTANT! ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

Safety precautions

- 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.
- Do not use this product near water or a heated source.
- 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.
- Failure to use the included power adapter shall violate regulatory compliance requirements and may expose the user to safety hazards.
- Risk of electric shock, fire, or burn if using an AC adapter other than the one provided with this device. Indoor use only and in dry locations. The adapter is rated for use between 0°C and 35°C (32°F and 95°F).
- 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.
- The power supply cord must be plugged into a socket or outlet that is provided with a suitable earth ground.
- This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.
- Do not install this equipment at a height exceeding 2 meters.

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 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 Chromebox. During operation, some components become hot enough to burn the skin.
- 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.