



# USER GUIDE

---

1P17  
BOX PC

---

## Content

Copyright and Trademarks Notice .....	1-4
Revision History .....	1-4
FCC-B Radio Frequency Interference Statement .....	1-5
FCC Conditions.....	1-5
FCC RF Radiation Exposure and SAR Statements .....	1-6
CE Conformity.....	1-6
Battery Regulations .....	1-6
WEEE Statement.....	1-7
Safety Instructions .....	1-8

## **Introductions.....2-1**

Unpacking.....	2-2
Product Overview .....	2-3
Top View.....	2-3
Front Side View .....	2-4
Rear Side View.....	2-5
Left Side View.....	2-6
Right Side View .....	2-7
Bottom Side View.....	2-8
Specifications.....	2-9

---

## Copyright and Trademarks Notice

All marks and names mentioned may be trademarks of their respective owners. No warranty as to accuracy or completeness is expressed or implied. We reserves the right to make changes to this document without prior notice.

## Revision History

- ▶ Version: 1.0
- ▶ Date: 04, 2024

---

## FCC-B Radio Frequency 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 radiates 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.

### NOTE

- ▶ The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- ▶ Shield interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

## FCC Conditions

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.
- ▶ This device must accept any interference received, including interference that may cause undesired operation.

---

## FCC RF Radiation Exposure and SAR Statements

FCC RF Radiation Exposure and SAR Statements SAR Statement. The MS-NB31 has been tested for body-worn Specific Absorption Rate (SAR) compliance. The FCC has established detailed SAR requirements and has established that these requirements. RF Exposure Information The radio module has been evaluated under FCC Bulletin OET 65C (01-01) and found to be compliant to RF Exposure from radio frequency devices. This model meets the applicable government requirements for exposure to radio frequency waves. The highest reported SAR level for usage near the body (0mm) is 1.30 W/kg, and for the simultaneous transmission is 1.59W/kg.

- ▶ WiFi 5G indoor use only
- ▶ Operations in the 5.15-5.25GHz band are restricted to indoor usage only

## CE Conformity



This device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.

---

## Battery Regulations



**European Union:** Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.



廢電池請回收

**BSMI:** For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

California, USA: The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California.

For further information please visit: <https://dtsc.ca.gov/perchlorate/>

---

### Safety Guideline for Using Lithium Battery

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

---

---

## WEEE Statement

---



**European Union:** Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

---

---

## Safety Instructions

---



Read the safety instructions carefully and thoroughly. All cautions and warnings on the equipment or user's manual should be noted.

---



Keep this equipment away from humidity and high temperature.

---



Lay this equipment on a stable surface before setting it up.

---



The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.

---



- Do not leave the equipment in an unconditioned environment with a storage temperature above 60°C (140°F) or below -20°C (-4°F), which may damage the equipment.
  - This unit should be operation under maximum ambient temperature of 50°C (120°F) or under 60°C (140°F) for light loading applications.
- 

Followings are requirements of battery storage:



- If the storage duration is within 3 months, please remain the temperature at -20 °C ~45 °C ; If the storage duration is above 3 months but within 1 year, please remain the temperature at 23°C± 2°C .
  - The battery capacity should remain at 30 ± 5%.
  - The storage humidity should remain at 65 ± 25%RH.
  - The battery charging temperature should be 10 °C ~45 °C , the discharging temperature should be -20°C ~60°C .
  - For the maximum battery discharging performance, please remain the storage temperature at 25°C .
  - Do not charge the battery while the room temperature is over 40 °C
-





- Make sure the power voltage is within safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet.
- Always unplug the AC power cord before installing any add-on card or module to the equipment.
- Always disconnect the AC power cord or uninstall the battery pack or switch off the wall socket if the equipment would be left unused for a certain time to achieve zero energy consumption.



Place the power cord in a way that people are unlikely to step on it. Do not place anything on top of the power cord.



Always keep the strong magnetic or electrical objects away from the tablet.



Never pour liquid into the opening that could damage the equipment or cause an electrical shock.



If any of the following situations arises, get the equipment checked by a service personnel:

- The power cord or plug is damaged.
- Liquid has penetrated into the equipment.
- The equipment has been exposed to moisture.
- The equipment has not worked well or you can not get it work according to User's Manual.
- The equipment was dropped and damaged.
- The equipment has obvious signs of breakage.

---

### **Green Product Features**



- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

### **Environmental Policy**

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life.
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.



# Introductions

Congratulations on becoming an user of this product, the finely designed Box PC . You will have a delightful and professional experience in using this exquisite Box PC . We are proud to tell users that this Box PC is thoroughly tested and certified by our reputation for unsurpassed dependability and customer satisfaction.

## Unpacking

First, unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future. The package should contain the following items:

- ▶ User Manual
- ▶ Power Adapter

---

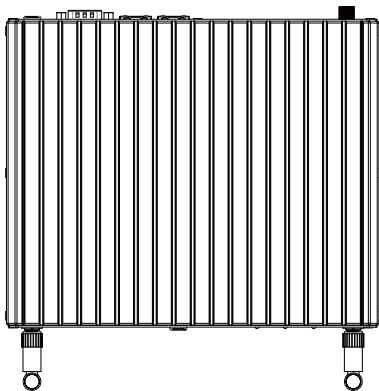
## Product Overview

This section provides the description of basic aspects of the Box PC . It will help you to know more about the appearance of this Box PC before using it. Please be aware that the figures shown here are for reference only.

### Top View

The figure of open view and description shown below will lead you to browse the top area of your Box PC.

---

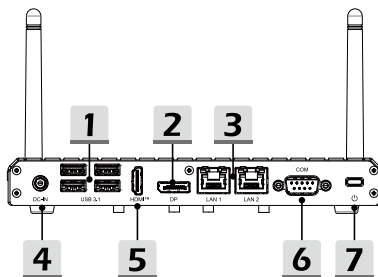


---

Blank below

### Front Side View

---



#### 1. USB 5Gbps (USB-A) Port

USB 5Gbps delivers higher interface speeds for connecting various devices, such as storage devices, hard drives, or video cameras, and offers more advantages over high-speed data transferring.

#### 2. Display Port

Use this port to connect a monitor with DisplayPort to extend the display.

#### 3. RJ-45 Connector

Connect an Ethernet cable here, the dock can provide Ethernet signal to the host.

#### 4. DC-in Jack

It is an electrical connector for supplying direct current (DC) power.

#### 5. HDMI Port

Use this port to connect a monitor with HDMI port to extend the display.

#### 6. COM-Port

support RS-232/422/485, 0V/5V/12V

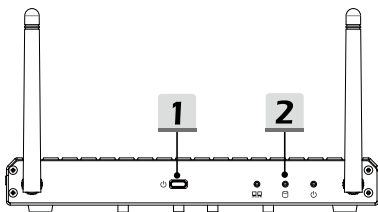
#### 7. Power Button

Before powering on the Box PC for the very first time, you must connect it with AC power.

---

## Rear Side View

---



---

### 1. Power Button

Before powering on the Box PC for the very first time, you must connect it with AC power.

### 2. Indicator LED

---



#### Power

- LED glows when the Box PC is turned on.
  - LED flashes when the Box PC goes to the sleep state.
  - LED goes off when the Box PC is turned off.
- 



#### SSD

LED blinks when the system is accessing SSD.

---



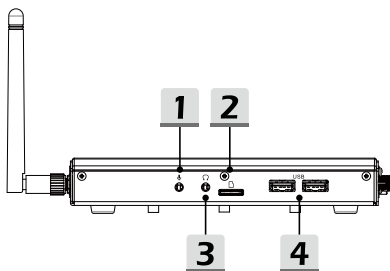
#### LAN

LED glows green when the LAN is connected.

---

### Left Side View

---



---

#### 1. Audio Ports



##### Microphone

Used for an external microphone.

---

#### 2. MicroSD Card Reader

The built-in card reader supports SD card.

---

#### 3. Audio Ports



##### Line Out

- A port for speakers.
- Connect the Surround speakers here.

---

#### 4. USB 60Mbps (USB-A) Port

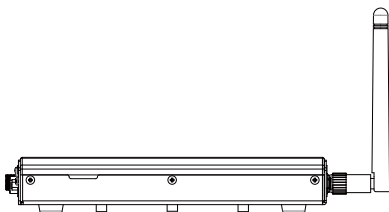
USB 60Mbps supports high-speed data transfer for the connected devices, such as storage devices, hard drives, or video cameras.



---

## Right Side View

---

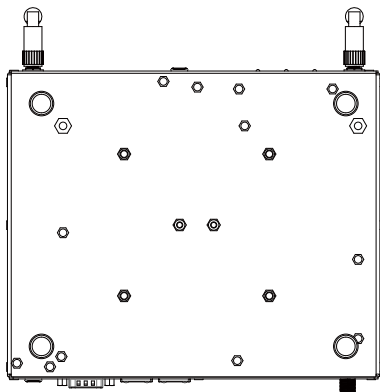


---

Blank below

## Bottom Side View

---



---

Blank below

---

## Specifications

The specifications listed here is reference only, and may change without notice.

The actual products sold are different from areas.

Processor	
Type	Intel® IOTG Alder Lake-N Series
Application Framework	
Operating System	Windows 10 / Windows 11 supported
Memory	
Type	DDR5
I/O Port	
USB	2 x USB 60Mbps (USB-A) 4 x USB 5Gbps (USB-A)
LAN	2 x RJ-45 Gigalan
Audio Connectors	1 x Mic-in 1 x Line-Out
Video Connectors	1 x HDMI 1 x Display port
RS-232	1 x
Input	
DC-in	1 x
Others	
Temperature	-10° C to 50° C
Max Resoulution	Supports 4K/ 2K resolution



MSI.COM



SUPPORT



SOCIAL MEDIA