

MS-1A91

USER GUIDE

Panel PC

Content

Copyright and Trademarks Notice	1-4
Revision History	1-4
FCC-B Radio Frequency Interference Statement	1-5
FCC Conditions	1-5
CE Conformity	1-6
WEEE Statement	1-6
Safety Instructions	1-7
Introductions	2-1
Unpacking	2-2
Product Overview	2-3
Open View	2-3
Top Side View	2-5
Right Side View	2-6
Left Side View	2-7
Rear Side View	2-8
Bottom Side View	2-9
Specifications	2-10
Getting Started	3-1
How to Manage Power Supply	3-2
AC/DC Adapter	3-2

Copyright and Trademarks Notice

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Revision History

- ▶ Version: 1.0
- ▶ Date: 12, 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.
- ▶ Consult the dealer or an experienced radio TV technician for help.

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.

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 40°C (120°F).
-



- 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.
 - If a power cord with 3-prong plug came with the package, always plug the power cord into a grounded (earthed) AC outlet. Do not remove the grounding pin of the power cord, since it is an important safety feature.
-



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 Panel PC. You will have a delightful and professional experience in using this exquisite Panel PC. We are proud to tell users that this Panel 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:

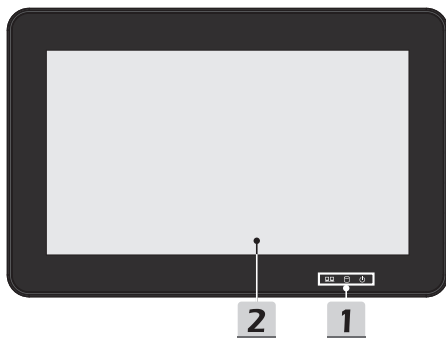
- ▶ Panel PC
- ▶ Power Delivery adapter and AC power cord

Product Overview

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

Open View

The figure of open view and description shown below will lead you to browse the main operating area of your Panel PC.



1. Indicator LED



Power

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



SSD

LED blinks when the system is accessing SSD.



LAN

LED glows green when the LAN is connected.

2. Touch Screen

Whenever the display is rotated, the touch screen will not be rotated and expanded to fit the display automatically.

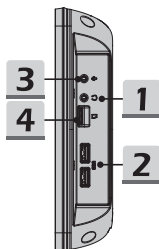
(NOTE: This function will be changed depends on the user's settings.)

Top Side View



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Right Side View



1. Audio Ports



Headphone out/ S/PDIF-out/ HiFi Audio output

- A port for speakers or headphones.
- Connect the Front speakers here.
- The S/PDIF port is also provided for digital audio transmission to external speakers through an optical fiber cable.
- HiFi audio output is supported through this port.

2. USB 2.0 Port

USB 2.0, the SuperSpeed USB, supports high-speed data transfer for the connected devices, such as storage devices, hard drives, or video cameras.

3. Audio Ports



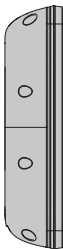
Microphone

- Used for an external microphone.
- Connect the Center and woofer speakers here.

4. MicroSD Card Reader

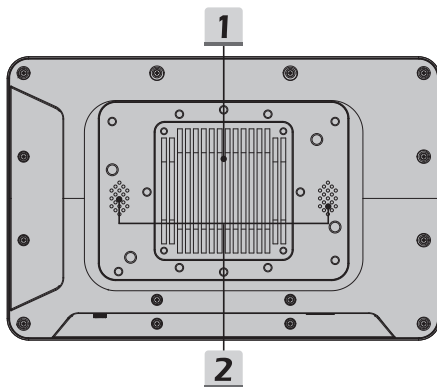
The built-in card reader supports SD card.

Left Side View



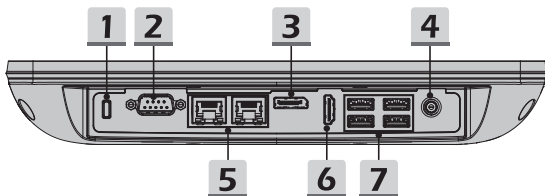
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Rear Side View



1. **VESA mount** (screw type: M4*0.7 x 4pcs)
2. **Speaker**
Support high quality sound.

Bottom Side View



-
1. **Power switch**
 2. **COM-Port**
support RS-232/422/485, 0V/5V/12V
 3. **Display Port Connector**
 4. **DC-in Jack**
It is an electrical connector for supplying direct current (DC) power.
 5. **RJ-45 Connector**
The Ethernet connector, with optionally supported transmitting rate of 10/100/1000/2500 megabits per second, is used to connect a LAN cable for network connection.
 6. **HDMI™ Connector** 
HDMI™ (High-Definition Multimedia Interface) technology is the industry-leading interface and de-facto standard connecting high-definition (HD) and ultra high-definition (UHD) equipment.
 7. **USB 3.1 Gen 1 Port**
USB 3.1 Gen 1, the SuperSpeed USB, supports high-speed data transfer for the connected devices, such as storage devices, hard drives, or video cameras.

Specifications

The specifications listed here is reference only, and may change without notice. The actual products sold are different from areas.

Physical Characteristic	
Dimension	272 (W) x 178 (D) x 42 (H) mm
Weight	1.6 kg
CPU	
Supported Processor	Intel® Dual Core/Quad Core processor
Processor Type	Intel® IOTG Alder Lake
Memory	
Technology	DDR5, 5600
Memory	1 x SO-DIMM slot
Power	
AC/DC Adapter	100W, 20V Input: 100-240V~, 50/60Hz Output: 20V --- , 5A The supported AC/DC adapter may vary without notice.
I/O Port	
USB	2 x USB 2.0 4 x USB 3.1
Audio	1 x Mic-in 1 x Line-Out
Video	1 x HDMI ™ 1 x Display port
LAN	2 x RJ-45
Card Reader	1 x MicroSD

Communication Port	
LAN	Supported
Display	
LCD Type	10.1" display
Video	
Graphics	Intel® HD Graphics
Audio	
Internal Speakers	2 x
Optional Function	
Power Switch	Supported
Security	
Trusted Platform Module	TPM 2.0 is a hardware-based encryption device that collaborates with software measures to form a more advanced and secure data protection. TPM functionalities can be de/activated in BIOS settings where appropriate. With professional versions of Windows, BitLocker is the default console available for TPM communications serving data encryption purposes.

Introductions

Getting Started

How to Manage Power Supply

This section provides users basic safety precautions to take when using an AC/DC adapter and battery power properly.

AC/DC Adapter

Ensure that your notebook is connected to an AC power source via the AC adapter before turning it on for the first time. If the notebook automatically shuts down due to low battery power, it is likely to cause system failure. Below are some Dos and Don'ts of an AC/DC adapter.

- ▶ Dos
 - Use the adapter that shipped with your notebook only.
 - Always be aware of heat coming from the in use AC/DC adapter.
 - Unplug the AC power cord before disassembly the notebook.
 - ▶ Don'ts
 - Cover an in-use adapter since it can generate heat.
 - Have the AC power cord plugged after powering off the system when the notebook is going to be left unused for a longer time.
1. Take up the interchangeable plug and look for the groove on the interchangeable plug which can be used for locking on the AC/DC adapter. Then align the groove of the interchangeable plug on the tenon of the AC/DC adapter with correct orientation. Next, rotate the interchangeable plug 90 degrees clockwise until it is fixed on the AC/DC adapter.
 2. Plug the DC end of the AC/DC adapter into the DC-in jack of the Panel PC.
 3. Then plug the AC/DC adapter into the power outlet.
 4. When remove, please follow the steps 3 2 1.

(NOTE:The interchangeable plug may vary depending on countries or regions.)

