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ASROCK ADL-N R2 Series Fanless Embedded Box System



Specifications

- **Model:** iBOX ADL-N R2
- **Power Adapter:** 19V/65W
- **Memory Type:** DDR4 SO-DIMM (1.2V)
- **Storage:** Supports M.2 SSD and 2.5-inch Hard Drive

Product Usage Instructions

WiFi Module Installation:

1. Locate the WiFi Module slot on the motherboard.
2. Carefully insert the WiFi Module into the slot at a 30-degree angle.
3. Tighten the screw to secure the WiFi Module to the motherboard.

M.2 SSD Installation:

1. Locate the M.2 slot on the motherboard.
2. Carefully insert the M.2 SSD into the slot at a 30-degree angle.
3. Tighten the screw to secure the M.2 SSD to the motherboard.

2.5-inch Hard Drive Installation:

1. Remove the bottom panel of the iBOX ADL-N R2 Series.
2. Attach the HDD assembly to the bottom case and secure it using screws.
3. Connect the SATA Data and Power Cable to the HDD and motherboard.
4. Reinstall the bottom panel.

VESA Bracket Installation:

1. Attach the two screws to the base of the iBOX ADL-N R2 Series.
2. Mount the iBOX ADL-N R2 Series by sliding it into place.

Din Rail Mounting Bracket Installation:

Note: Din Rail Bracket is not provided by default. Please purchase it separately if

needed.

Memory Module Installation (DDR4 SO-DIMM):

1. Carefully insert the SO-DIMM memory module into the slot at a 30-degree angle.
2. Push down until the module snaps into place.

Wall Mounting Brackets Installation:

Note: Dimension of the iBOX ADL-N R2 Series with Wall Mounting Brackets Installed.

Package Contents



iBOX ADL-N R2 Series



19V/65W Power Adapter

Power Cord
(by request)

*The barebone system does not include memory, hard drive and mSATA SSD.



M.2 Screw

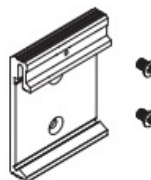
SATA Cable



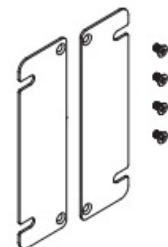
Quick Installation Guide



VESA Mount Bracket
& Screw Package
(by request)



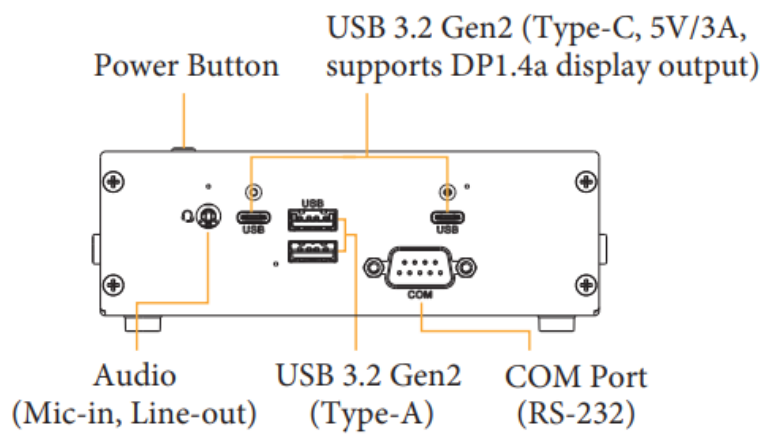
Din Rail Kit
& Screw Package
(by request)



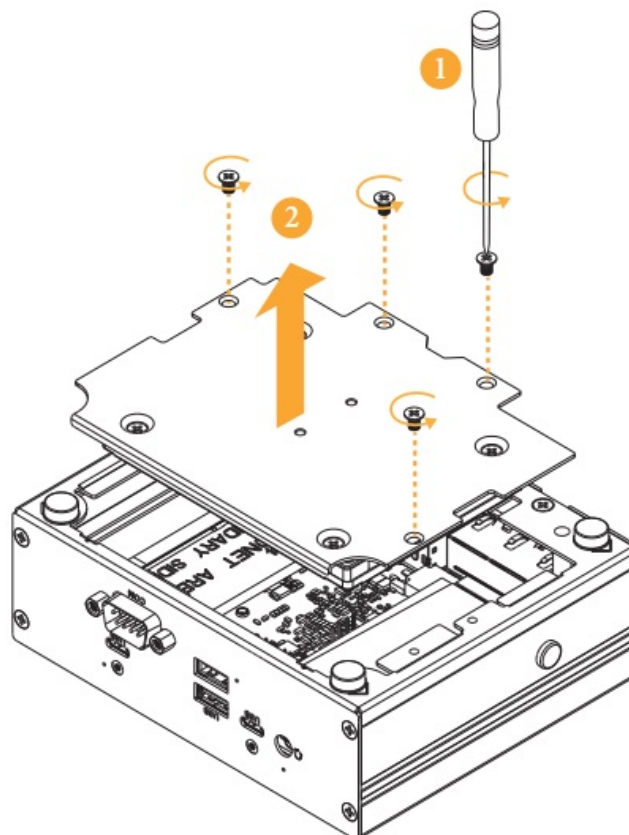
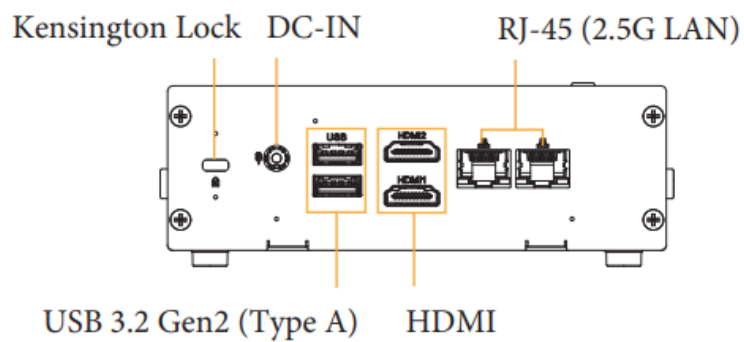
Wall Mount Kit
& Screw Package

Product Overview

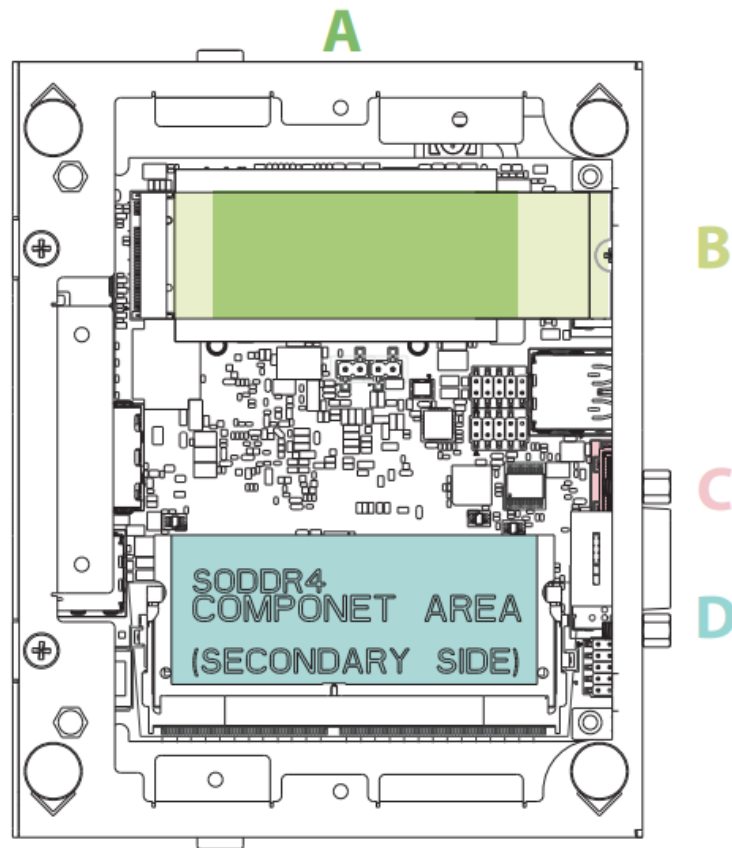
Front Panel Features



Rear Panel Features



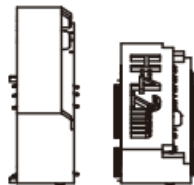
Motherboard Layout



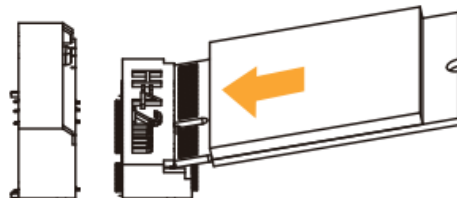
INSTALLATION INSTRUCTION

A. WiFi Module: How to Install the WiFi Module

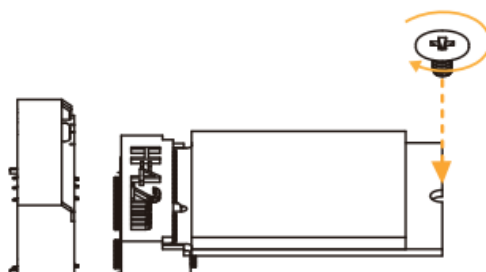
1. Locate the WiFi Module slot on the motherboard.



2. Carefully insert the WiFi Module into the slot at a 30-degree angle.

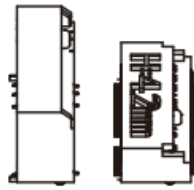


3. Tighten the screw to secure the WiFi Module to the motherboard.

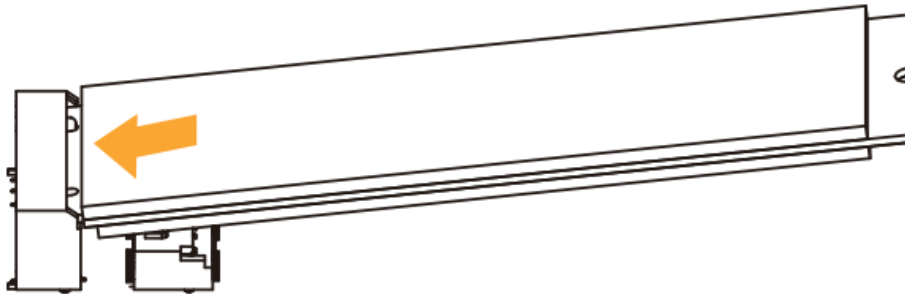


B. M.2 SSD: How to Install the M.2 SSD

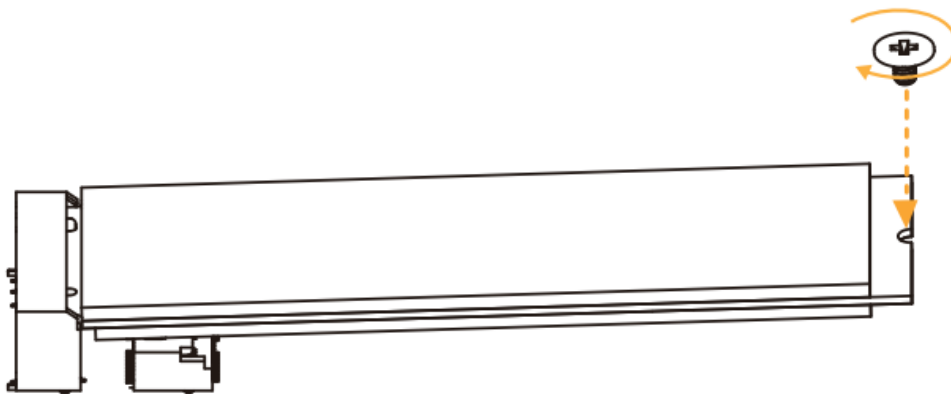
1. Locate the M.2 slot on the motherboard.



2. Carefully insert the M.2 SSD into the slot at a 30-degree angle.

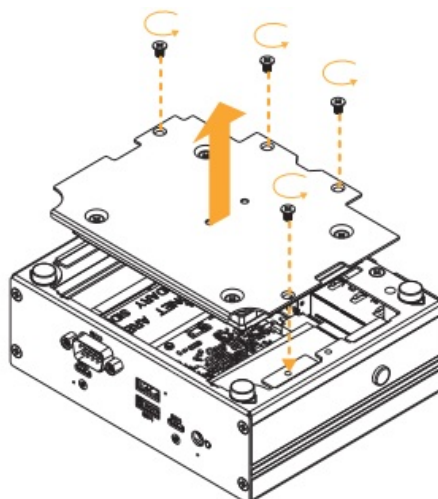


3. Tighten the screw to secure the M.2 SSD to the motherboard.

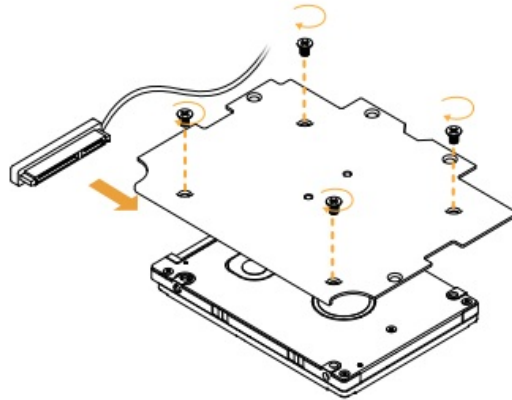


C. 2.5-inch Hard Drive: How to Install the Hard Drive

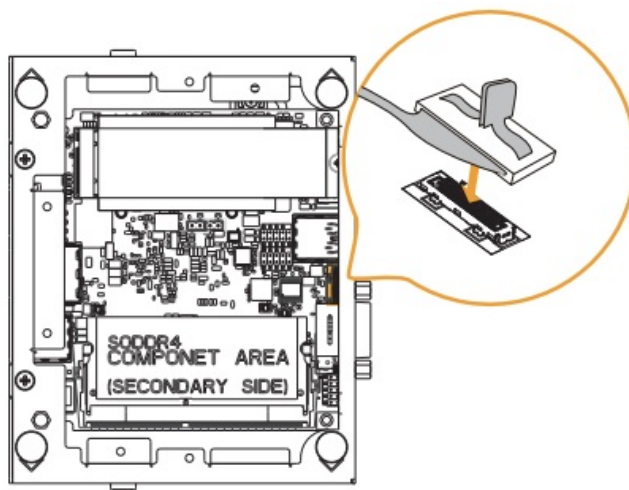
1. Remove the four screws on the bottom case.
Then lift up and remove the bottom panel.



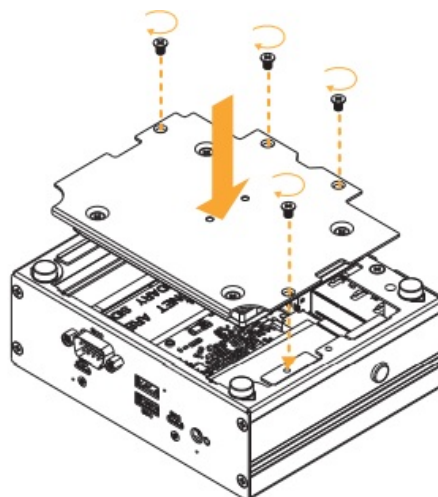
2. Ensure the HDD assembly to attach to the bottom case in the correct orientation as shown in the picture, and secure it using the four screws. Then connect the SATA Data and Power Cable to the HDD.



3. Connect the SATA Cable to the connector on the motherboard.



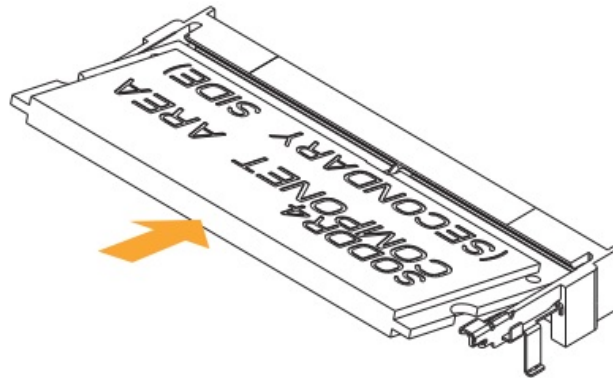
4. Then reinstall the bottom case.



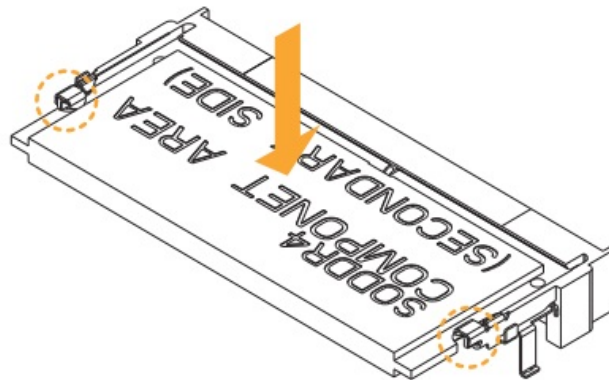
*For iBOX ADL-N R2 Series, it is not recommended to install 2.5" HDD. If you install the 2.5" HDD, please keep the iBOX ADL-N R2 Series in a vertical position to ensure better cooling performance.

D. SO-DIMM Slot: How to Install the Memory Module (DDR4 Low Voltage (1.2V))

1. Carefully insert the SO-DIMM memory module into the slot at a 30-degree angle.



2. Push down until the module snaps into place.

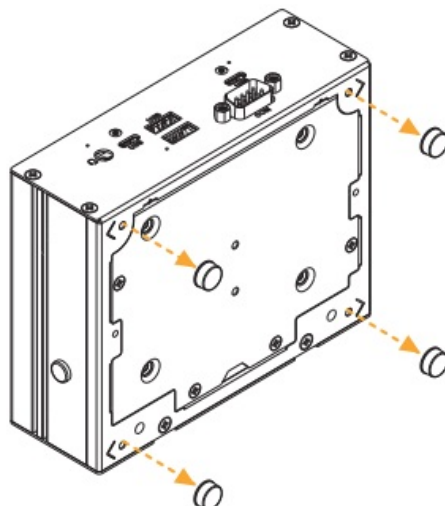


Note:

The iBOX ADL-N R2 Series requires DDR4 SO-DIMM (1.2V).

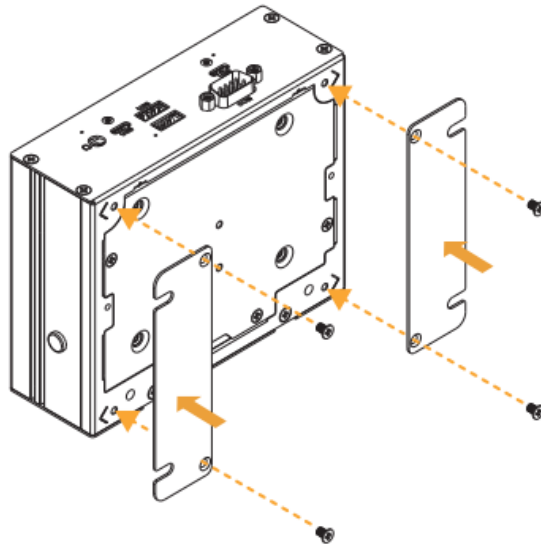
How to Install the Wall Mounting Brackets

1. Remove the four rubber feet on the base of the iBOX ADL-N R2 Series.

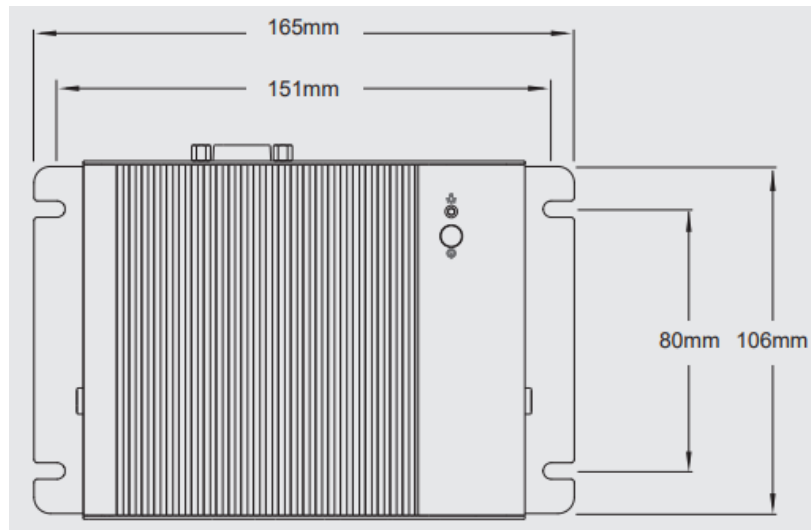


2. Attach the wall mounting brackets to the base of the iBOX ADL-N R2 Series and

secure them with screws.



Dimension of the iBOX ADL-N R2 Series with Wall Mounting Brackets Installed



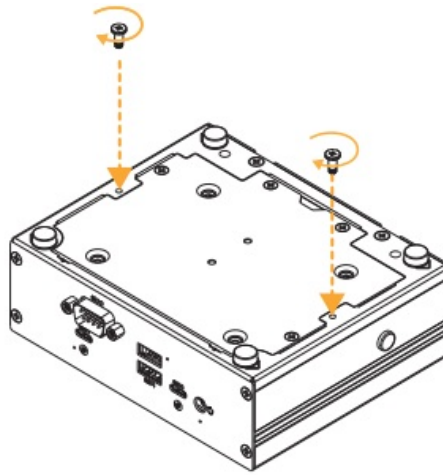
How to Install the VESA Bracket

1. Attach the two screws to the base of the iBOX ADL-N R2 Series.

Note:

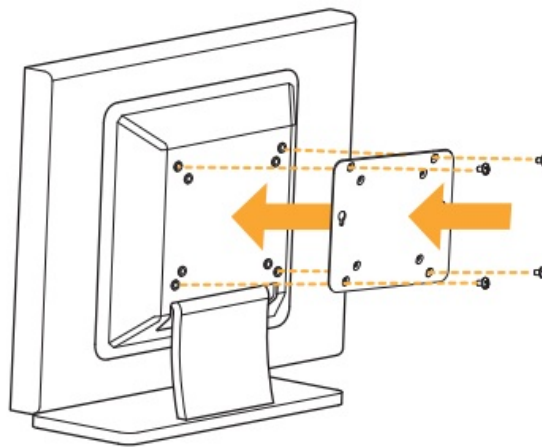
VESA bracket is not provided by default.

Please purchase it separately if needed.

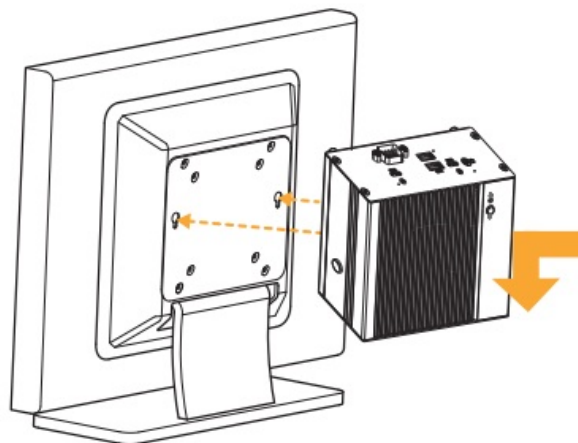


2. Attach the VESA Bracket to the rear of a compatible display using the four screws.

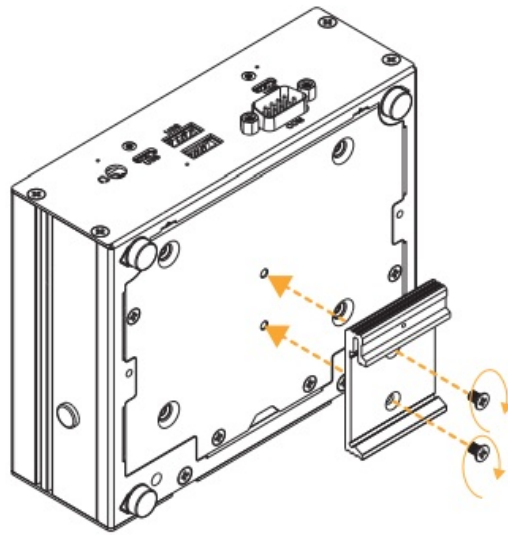
*Choose mounting holes depending on the mounting hole pattern of your LCD screen (75 mm × 75 mm or 100 mm × 100 mm).



3. Mount the iBOX ADL-N R2 Series by sliding it into place.



How to Install the Din Rail Mounting Bracket



Attach the Din Rail Bracket to the base of the iBOX ADL-N R2 Series and secure it with screws.

Note:

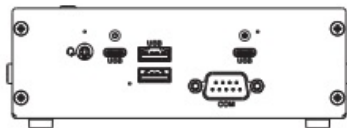
Din Rail Bracket is not provided by default.

Please purchase it separately if needed.

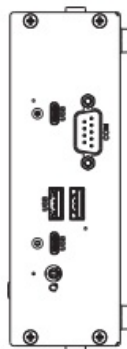
POSITIONS

Positions of the iBOX ADL-N R2 Series

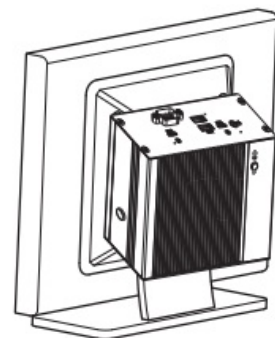
The iBOX ADL-N R2 Series can be placed in vertical or horizontal position.



Horizontal Position



Vertical Position



VESA-mounted

Please note that keeping the iBOX ADL-N R2 Series in a vertical position will ensure better cooling performance.

Note:

VESA bracket is not provided by default.

Please purchase it separately if needed.

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WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- DEATH or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.
- KEEP new and used batteries OUT OF REACH of CHILDREN
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

Warranty Term

- Warranty of host of iBOX ADL-N R2 Series super microcomputer (casing excluded): 2 years
- Our warranty does not cover the casing of the product, the metal frame and fastenings and screws, or packaging accessories.
- Data stored in the product may be lost as a result of the repair work or re-formatting of the hard drive disk. We does not provide data recovery services or data storage. Please back up your data regularly to protect the data and avoid loss. For details of our warranty terms, please refer to the individual warranty statement applicable to the district where your product was bought.

Safety & Regulatory Information


- Failure to use the included Power Adapter may violate regulatory compliance and may expose the user to safety hazards.

FAQ

Q: Can I install a 2.5-inch HDD in the iBOX ADL-N R2 Series?

A: It is not recommended to install a 2.5-inch HDD in the iBOX ADL-N R2 Series. If you choose to install one, please keep the system in a vertical position for better cooling performance.

Documents / Resources

	ASROCK ADL-N R2 Series Fanless Embedded Box System [pdf] User Guide iBOX-ADL-N, iBOX ADL-N R2, ADL-N R2 Series Fanless Embedded Box System, ADL-N R2 Series, Fanless Embedded Box System, Embedded Box System, Box System, System
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References

- [User Manual](#)

ASRock

ADL-N R2 Series, ADL-N R2 Series Fanless Embedded Box System, ASRock, Box System, Embedded Box System, Fanless Embedded Box System, iBOX ADL-N R2, iBOX-ADL-N, System

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[ASRock B550 Motherboard User Guide](#)

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[ASRock 939Dual-VSTA AGP Plus Motherboard Owner’s Manual](#)

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