IN WIN MS04-01

IN WIN IW-MS04-01-S265 Mini Server ITX Tower Instruction Manual

Model: IW-MS04-01-S265

1. INTRODUCTION

Thank you for choosing the IN WIN IW-MS04-01-S265 Mini Server ITX Tower. This compact and versatile chassis is designed for mini-server and Network Attached Storage (NAS) applications, offering robust features in a small form factor. This manual provides detailed instructions for the proper installation, operation, and maintenance of your new server case.

2. SAFETY INFORMATION

Please read and follow all safety instructions carefully before installing or operating the IN WIN IW-MS04-01-S265. Failure to do so may result in personal injury or damage to the product.

- Always disconnect the power supply from the wall outlet before performing any installation, maintenance, or troubleshooting.
- Wear anti-static wrist straps to prevent electrostatic discharge (ESD) when handling internal components.
- Avoid placing the case in areas with high humidity, extreme temperatures, or direct sunlight.
- Ensure proper ventilation around the case to prevent overheating.
- Do not open the power supply unit; it contains high voltage components.
- Keep small parts and tools away from children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- IN WIN IW-MS04-01-S265 Mini Server ITX Tower Chassis

- 265W Flex Power Supply (pre-installed)
- SATA Backplane (pre-installed)
- 120mm PWM Rear Fan (pre-installed)
- Accessory Kit (screws, cable ties, etc.)
- User Manual (this document)

4. PRODUCT OVERVIEW

The IN WIN IW-MS04-01-S265 is a compact mini-server ITX tower designed for efficient data storage and server applications. Its features include:

- **Compact ITX Form Factor:** Ideal for space-constrained environments.
- **Integrated Power Supply:** Comes with a 265W Flex Power Supply.
- **Extensive Storage Support:**

  - 4x External 3.5" hot-swappable drive bays with SATA backplane.
  - 1x Internal 2.5" drive bay.
  - 1x Slim Optical Disk Drive (ODD) bay.

- **Efficient Cooling:** Equipped with a 120mm PWM rear fan for optimal airflow.
- **Connectivity:** Front panel features 2x USB 2.0 ports and 2x USB 3.0 ports for convenient access.
- **Expansion Slot:** Includes 1x low profile expansion slot.

Figure 1: Front view with drive bays accessible.

Figure 2: Front view with door closed.
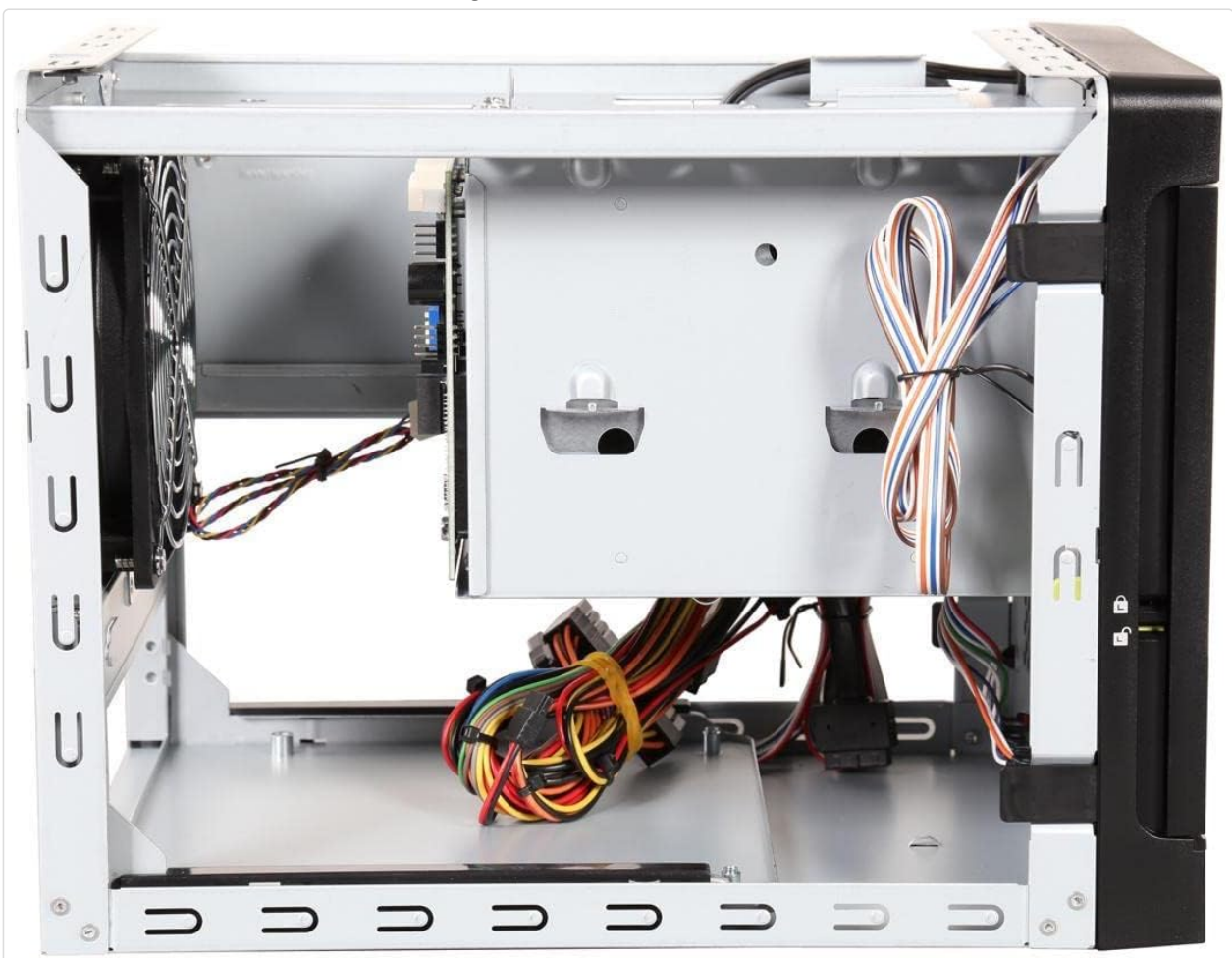
Figure 3: Side view of the chassis.

Figure 4: Internal view of the chassis.

5. SETUP & INSTALLATION

Follow these steps to install your components into the IN WIN IW-MS04-01-S265 chassis.

5.1. Preparing the Chassis

- Unscrew the thumbscrews on the rear panel and slide off the side panel(s) to access the interior.
- Identify the motherboard tray, drive bays, and power supply location.

5.2. Motherboard Installation

The IW-MS04-01-S265 supports Mini-ITX motherboards. Ensure your motherboard is compatible.

1. Install the I/O shield into the rear I/O opening of the chassis.
2. Carefully align your Mini-ITX motherboard with the standoffs on the motherboard tray.
3. Secure the motherboard with the provided screws.
4. Connect the front panel connectors (Power SW, Reset SW, HDD LED, Power LED, USB 2.0, USB 3.0, Audio) to the corresponding headers on your motherboard.

Your browser does not support the video tag.

Video 1: This video demonstrates the installation of a motherboard and connecting internal cables in a similar compact NAS case. While not the exact model, the principles of connecting front panel headers and securing the motherboard are applicable.

5.3. Drive Installation (3.5" Hot-Swap Bays)

The case features four external 3.5" hot-swappable drive bays with a pre-installed SATA backplane.

1. Open the front door of the chassis to access the drive bays.
2. Slide each 3.5" hard drive into an available bay until it clicks into place. Ensure the drive is fully seated.
3. The SATA backplane will automatically connect the power and data for the drives.

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Video 2: This video illustrates the installation of hard drives into a NAS enclosure. The process of sliding drives into bays and securing them is similar to the hot-swappable bays in the IW-MS04-01-S265.

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Video 3: This video demonstrates the installation of hard drives into a drive cage and connecting SATA power and data cables. This is relevant for the internal 2.5" drive bay or if the hot-swap backplane requires additional power connections.

5.4. Internal 2.5" Drive Installation

The chassis includes one internal 2.5" drive bay, typically located near the motherboard tray or power supply.

1. Locate the 2.5" drive mounting area.
2. Secure your 2.5" SSD or HDD using the provided screws.
3. Connect a SATA power cable from the power supply and a SATA data cable from the motherboard to the 2.5" drive.

5.5. Slim ODD Installation

A slim ODD bay is available for optical drives.

1. Remove the slim ODD bay cover from the front panel.
2. Slide your slim ODD into the bay and secure it with screws.

3. Connect the necessary slim SATA power and data cables.

5.6. Power Supply Connection

The 265W Flex Power Supply is pre-installed. Connect the main ATX power connector and CPU power connector to your motherboard. Ensure all drive power connections are made.

5.7. Cable Management

Organize internal cables to improve airflow and aesthetics. Use the included cable ties to bundle cables neatly.

5.8. Closing the Chassis

Once all components are installed and cables are managed, carefully slide the side panel back into place and secure it with the thumbscrews.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your IN WIN IW-MS04-01-S265.

- **Cleaning:** Periodically clean dust from the fan and ventilation grilles using compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.
- **Fan Check:** Inspect the 120mm rear fan for any obstructions or unusual noises. Replace if necessary.
- **Cable Check:** Ensure all internal and external cables are securely connected.

7. TROUBLESHOOTING

If you encounter issues with your IN WIN IW-MS04-01-S265, refer to the following common troubleshooting steps:

- **No Power:**

  - Check if the power cable is securely connected to the power supply and the wall outlet.
  - Ensure the power supply switch is in the "ON" position.
  - Verify all internal power connections to the motherboard and components.

- **System Overheating:**

  - Ensure the 120mm rear fan is operating correctly.
  - Check for dust buildup in the fan and ventilation areas.
  - Verify that the case is placed in a well-ventilated area.

- **Drive Not Detected:**

  - For hot-swappable drives, ensure they are fully seated in their bays.
  - Check SATA power and data cable connections for internal drives.
  - Verify that the SATA backplane is properly connected to the motherboard (if applicable).

8. SPECIFICATIONS

Feature	Detail

Feature	Detail
Brand	IN WIN
Model Name	IW-MS04-01-S265
Case Type	Mini Server ITX Tower
Motherboard Compatibility	Flex ATX (Note: Product description states ITX, specifications state Flex ATX. Assuming ITX is the primary target for a mini-server tower, but Flex ATX is also listed.)
Power Supply	265W Flex Power Supply (Pre-installed)
External Drive Bays	4x 3.5" Hot-Swappable (SATA Backplane Support)
Internal Drive Bays	1x 2.5"
Optical Drive Bay	1x Slim ODD
Expansion Slots	1x Low Profile
Cooling Method	Air (1x 120mm PWM Rear Fan)
Front I/O Ports	2x USB 2.0, 2x USB 3.0
Material	Metal
Color	Black
Item Dimensions (LxWxH)	11.81 x 7.87 x 3.94 inches
Item Weight	5.5 pounds (2.5 Kilograms)

9. WARRANTY & SUPPORT

IN WIN provides a limited warranty for its products. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official IN WIN website. For technical support, product registration, or to download the latest drivers and manuals, please visit the IN WIN support page or contact their customer service.

Online Resources:

- IN WIN Official Website: www.in-win.com
- Support Page: Refer to the official website for regional support contacts.