



IW-MS08-A

8-Bay Mini Server Tower

User Manual

PREFACE

Thank you for choosing the InWin IW-MS08-A SMB Server. This manual is written for system technicians who are responsible for installation, troubleshooting, managing and repairing this server chassis. This document provides an overview of all the features of the chassis, a list of accessories or other components you may need to finish the installation, troubleshooting methods and instructions on adding and removing components on the InWin IW-MS08-A SMB Server. For the latest version of this manual, you may visit InWin's server website.

SAFETY INFORMATION

To ensure a safe and smooth operation of your InWin IW-MS08-A SMB Server, it is essential that you choose an appropriate location for the system, provide an appropriate operating environment and supply an adequate amount power for all components of the system. As you plan for installation, follow the guidelines below to ensure that the system and its environment are safely and appropriately positioned for efficient operation and service. Your system should be installed and serviced only by a qualified technician.

Environment Selection:

The system is designed to operate in a typical office environment:

- The location should be clean, dry and free of airborne particles.
- It should be placed in a well-ventilated room, and away from sources of heat including direct sunlight and radiators.
- It should be kept away from sources of vibration or physical shock.
- The space should be accommodated with a properly grounded wall outlet, and with sufficient space to access the power supply cords.
- The operating environment temperature should be around 0°C to 40°C (32°F to 104°F).

Heed Safety Instructions:

Before working with InWin IPC/storage/SMB server products, we strongly recommend you use this guide as a reference and follow the safety instructions. The instructions in this manual will help you ensure and maintain compliance with existing product certifications and approvals. Follow the described, regulated components mentioned in this manual. Use of non-UL listing products or other regulators may not comply with product regulations in the region(s) in which the product is sold.

System Power On/Off:

The power button DOES NOT totally turn off the system AC power. To remove the power of the system, you must unplug the AC power cord from the outlet or the system's power supply units. Make sure the power cord is unplugged before you open the chassis or add/remove any components.

Hazardous Conditions, Devices and Cables:

Hazardous electrical conditions can be present on/in power supply units and their cables. Disconnect the power cord and any other devices attached to the server before opening the case. Failing to follow safety procedures will increase the risk of personal injury or equipment damage.

Electrostatic Discharge (ESD) and ESD Protection:

In most cases, ESD may damage disk drives, electronic boards and other parts. We recommend that you conduct installation only at an ESD free space. If not possible, perform ESD protection protocol by wearing anti-static wrist straps attached to the ground on any unpainted metal surface on your server during operation.

Installing or Removing Jumpers:

A jumper is a short length conductor used to close, open or bypass part of an electronic circuit. Jumpers on InWin backplanes have a small tab on top that you can pick up with your fingertips. Grip the jumper carefully, and plug the jumper to cover the jumper pins on the backplane. Once you need to remove the jumper, grip the jumper and carefully pull without squeezing.



CAUTION

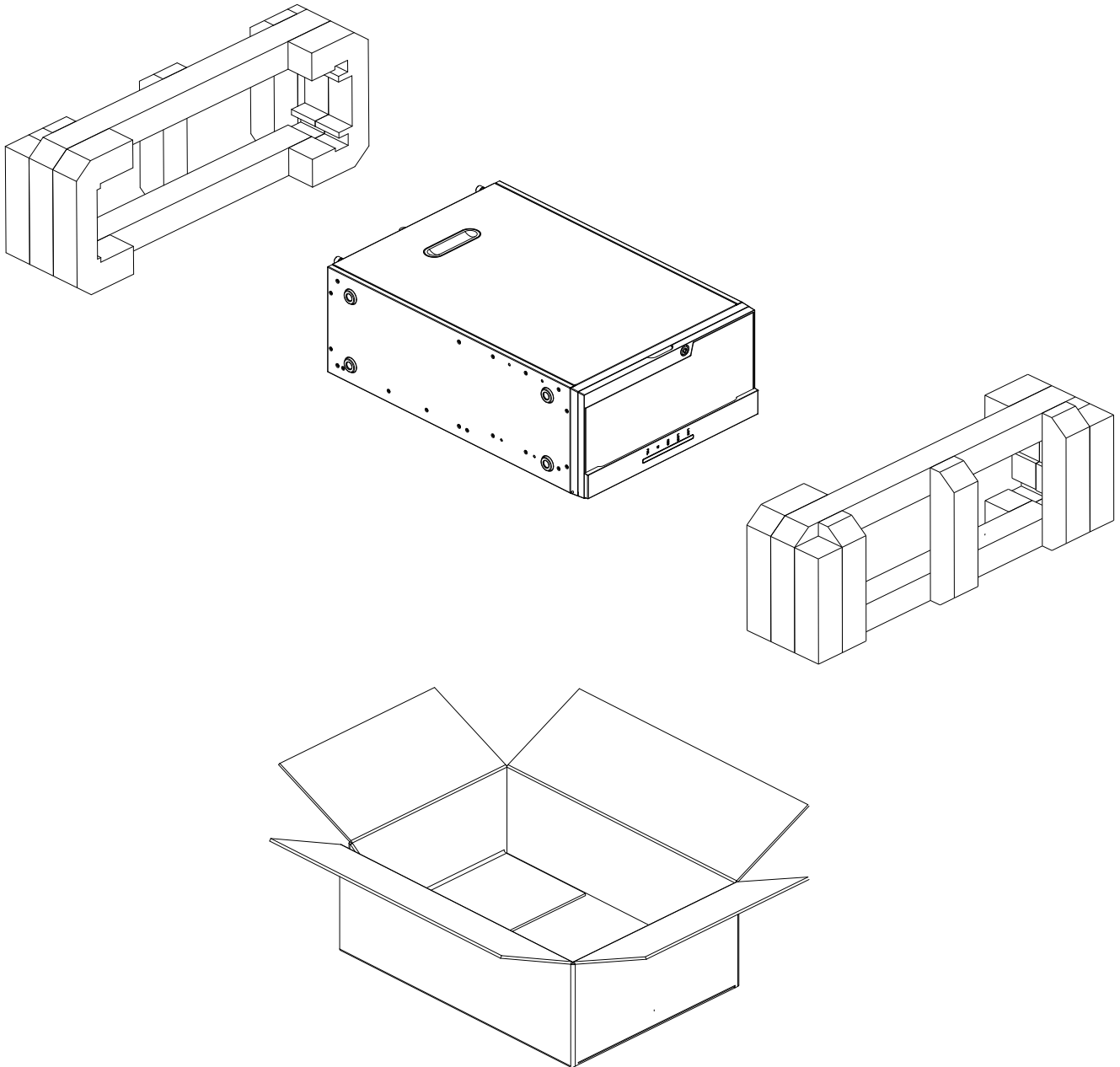
To avoid damage and maintain your safety, please read the following terms listed below:

1. Do not populate hard drives and turn on the power until the system has stabilized. Make sure hard drives and other components are properly connected before turning on the system.
2. Tighten or loosen all screws with a screwdriver.
3. Apply the correct screws packed in the accessory box.
4. For your safety, please have at least two people lift and install the unit in its designated area.
5. Before mounting the unit to the cabinet, make sure the rail is installed correctly.
6. When installing and removing any module or part, please use the handles.

1 Product Introduction

1.1 Box Contents

When you open the IW-MS08-A box, the contents should include the following:



1.2 Accessories Box



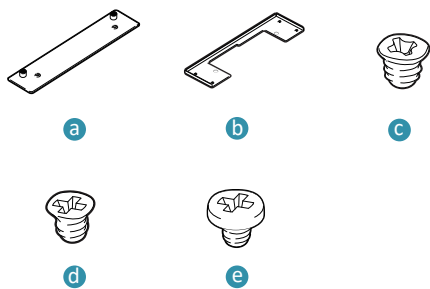
7 Internal 3.5" HDD Mounting Accessories



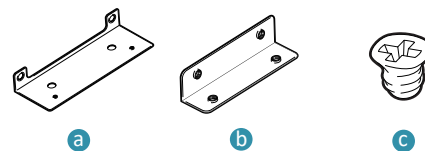
8 Flex Power Supply Accessories



9 Single Power Supply Accessories



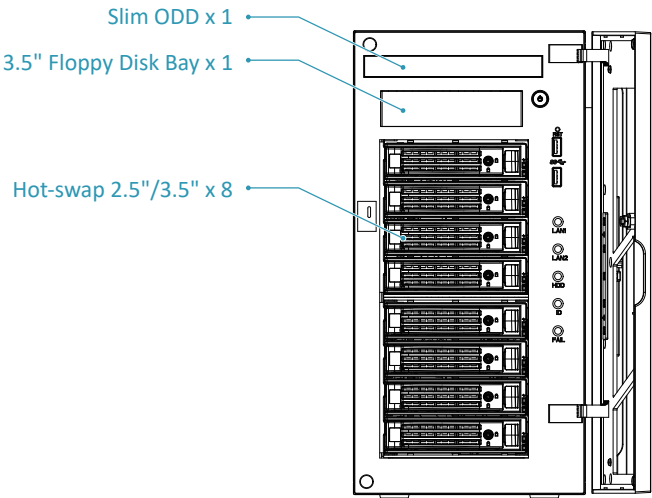
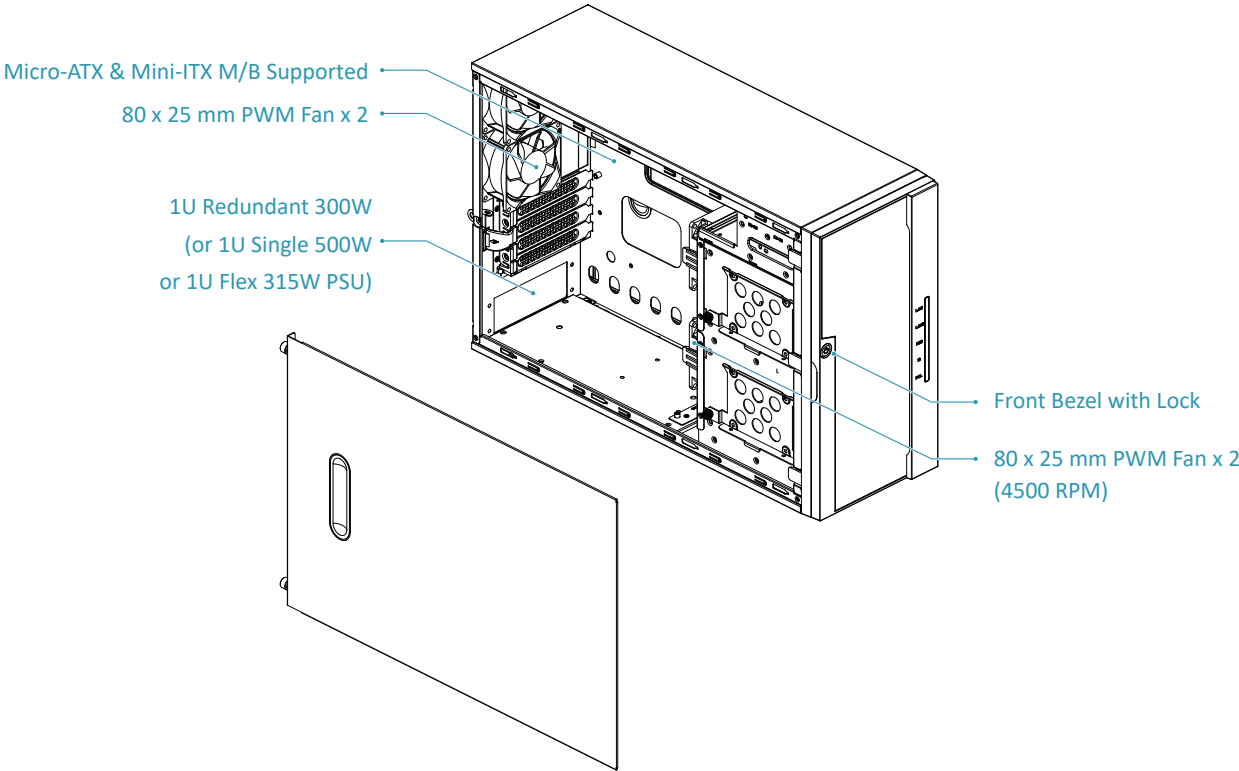
10 Redundant Power Supply Accessories



No.	Item	No.	Item
1	Motherboard Screws x 10	8	Flex Power Supply Accessories a. Mounting Bracket x 1 b. Countersunk Screws x 6 c. Oval Head Screws x 3
2	Motherboard Standoffs x 11		
3	Countersunk Screws x 35		
4	Internal 2.5" HDD Screws x 4	9	Single Power Supply Accessories a. Mounting Bracket x 1 b. Rear Plate Cover x 1 c. Countersunk Flat Head Screws x 2 d. Countersunk Screws x 4 e. Oval Head Screws x 4
5	Slim ODD Screws x 4		
6	Key for Plastic Bezel x 1		
7	Internal 3.5" HDD Mounting Accessories a. Mounting Bracket x 1 b. Countersunk Screws x 2 c. Oval Head Screws x 3	10	Redundant Power Supply Accessories a. Mounting Bracket x 1 b. Rear Plate Holders x 2 c. Countersunk Screws x 12

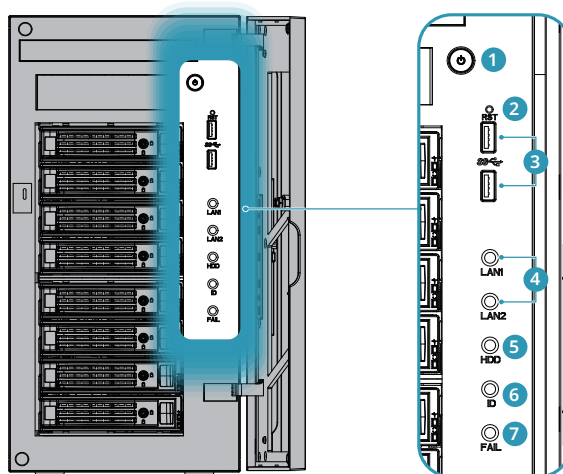
1.3 General Information

When you open the chassis, it should reflect the diagram's image.



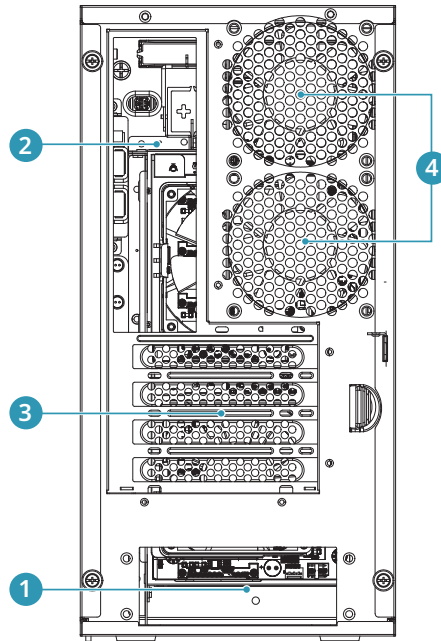
1.3.1 Front Panel Controls and Indicators

The IW-MS08-A supports eight 2.5"/3.5" drive bays with two 4-port 12Gb/s SAS/SATA backplane modules and one 3.5" floppy drive bay. The control panel, USB I/O ports and indicators are located on the right side of the panel.



No.	Name	Color	Status	Description
1	Power ON/OFF Button with LED	Blue	Solid on	System is powered on
		N/A	Off	System is off
2	System Reset	N/A	N/A	Press the button to reset system
3	USB3.0 Connector	N/A	N/A	USB devices connection
4	LAN LED	Amber	Blinking	Link between system and network
		N/A	Off	No data transmission or receiving is occurring
5	Hard Disk LED	Green	Blink	System HDD accessing
6	Chassis ID with LED	Blue	Solid on	Press the button to activate system identification
7	System Fail LED	N/A	Solid on	System ok
		Red	Solid on	System faulty

1.3.2 Rear Panel Configuration



No.	Name	Description
1	PSU Bracket	The PSU bracket is available for mounted redundant, single or Flex PSUs.
2	System I/O (Depends on M/B Specifications)	The I/O shield should come with the motherboard or is provided by motherboard vendors.
3	4 Full Height PCI-E Slots	The slots support full-height cards. The bracket should be removed before using.
4	Rear Fans	80 x 25mm PWM fans x 2

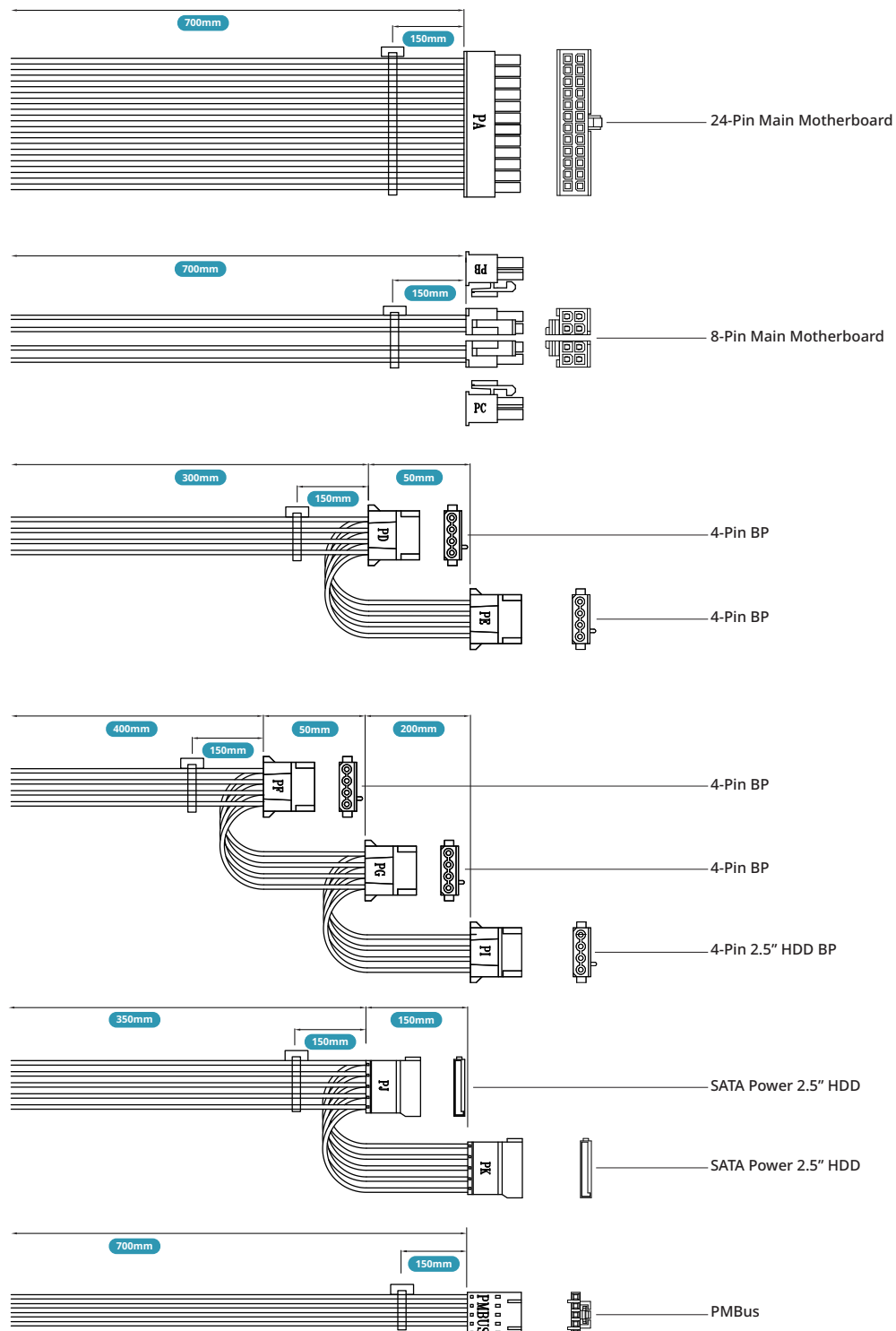
2 Hardware Installation

2.1 Installation Guide

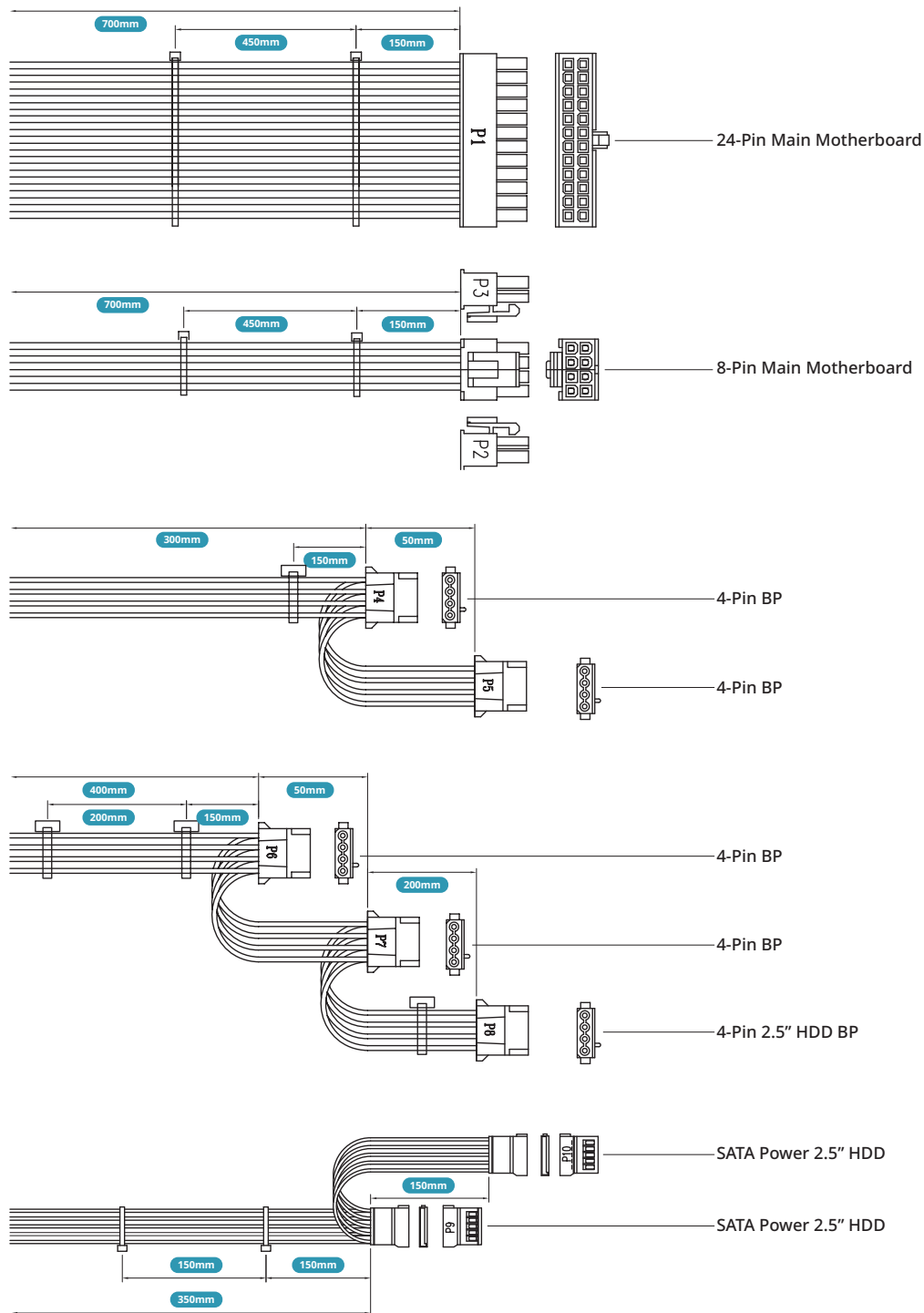
The IW-MS08-A represents a structurally more refined version of the SOHO server system. This refined version gives users flexible storage choices. It also supports 1U Flex, single and redundant power supply units. Users can select power supplies best suited to their desired application. For a quick installation video, please visit [IW-MS08-A Hardware Installation](#).

2.1.1 Power Supply Cable Information

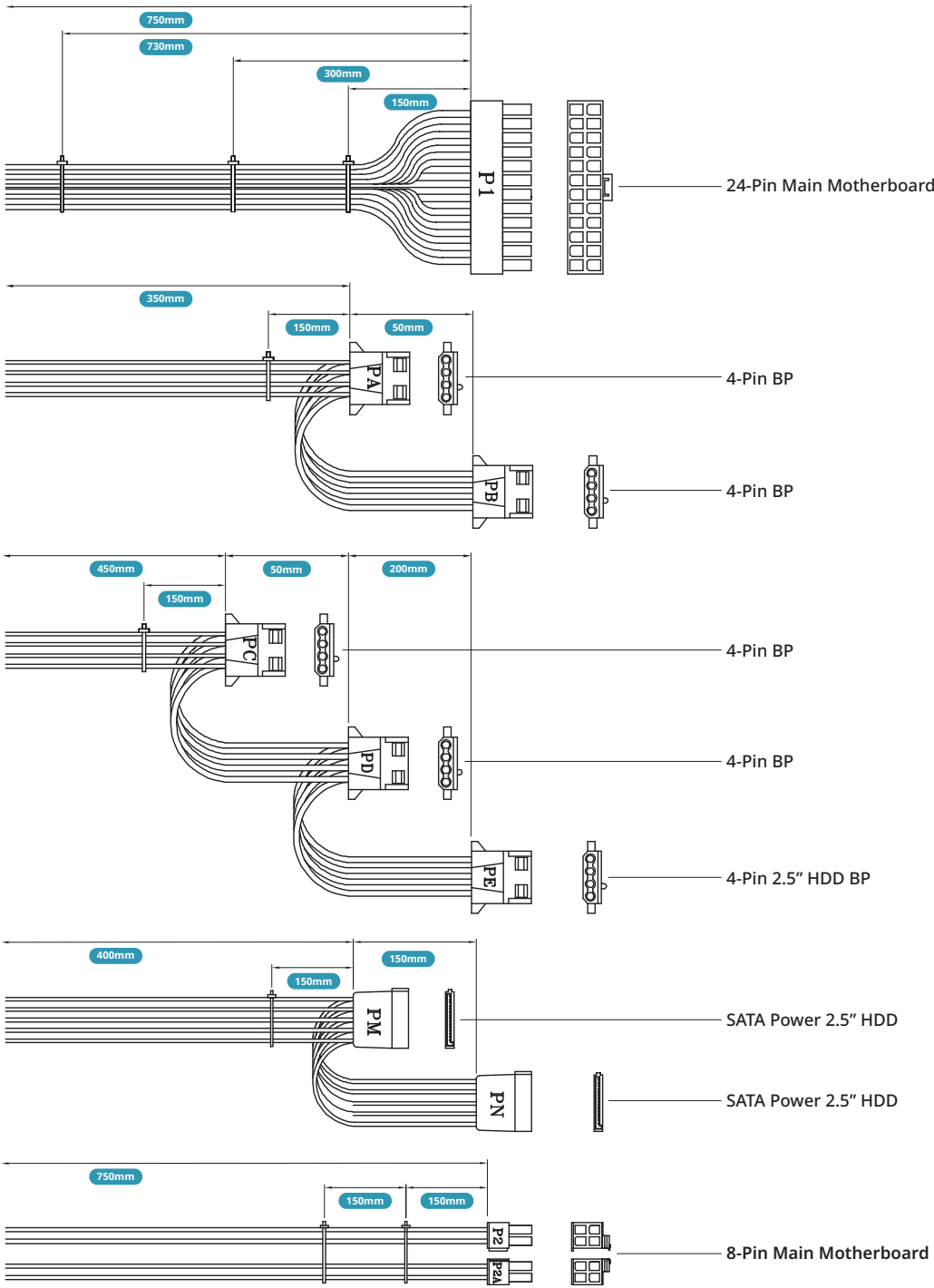
- 300W redundant PSU Cable Information



• 500W single PSU Cable Information



• 315W Flex PSU Cable Information



2.2 Connecting Cables

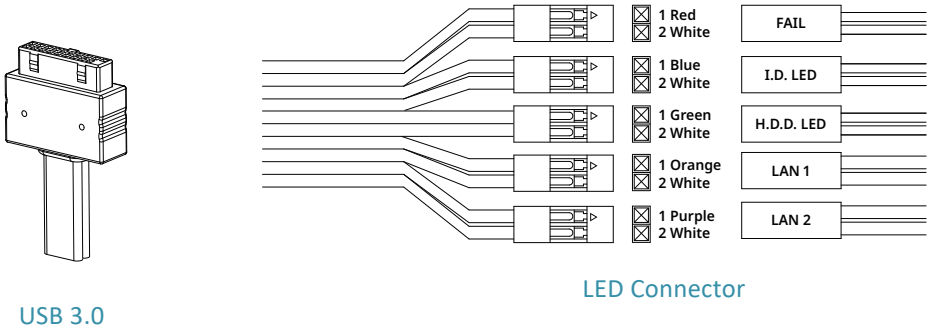
The backplane supports state-of-the-art SAS3 12Gbps HDD/SSD and is also backward compatible with SAS 6Gbps, SATA 6Gps and SATA 3Gps HDD/SSD.

2.2.1 Connecting the HDD Backplane through SAS Connectors

Connect the SAS cable to the backplane and your motherboard or RAID controller. InWin provides a verified SAS cable for installation, please contact InWin’s local partners and sales representatives to get more information.

2.2.2 Connecting Backplane through SAS Connectors

As described in 1.3.1, the InWin IW-MS08-A has a built-in front control panel and USB access ports. Users need to connect the connectors to the pins on the motherboard to activate the functions. You can find the pin function and location information from your motherboard’s user guide.



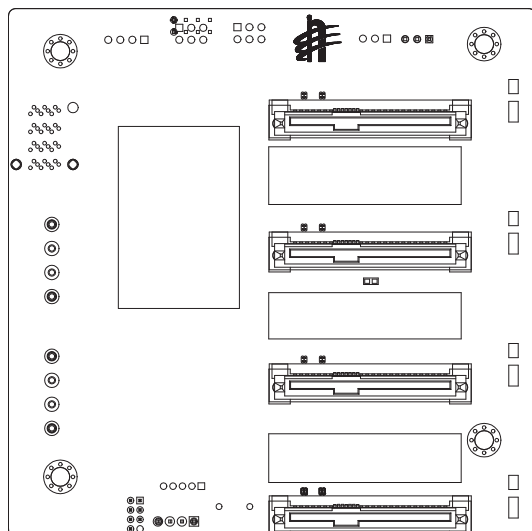
Connector Name	Color	Front I/O Indication
System LED	Red/White	System Fail LED
ID LED	Blue/White	Chassis ID Button with LED
HDD LED	Green/White	HDD Active LED
LAN LED 1	Orange/White	LAN LED
LAN LED 2	Purple/White	LAN LED
USB 3.0 Connector	Black Flat	USB 3.0

- If the LED power connector on the motherboard is 3-pin, please use the 2-pin to 3-Pin convertor adapter from the accessories box.

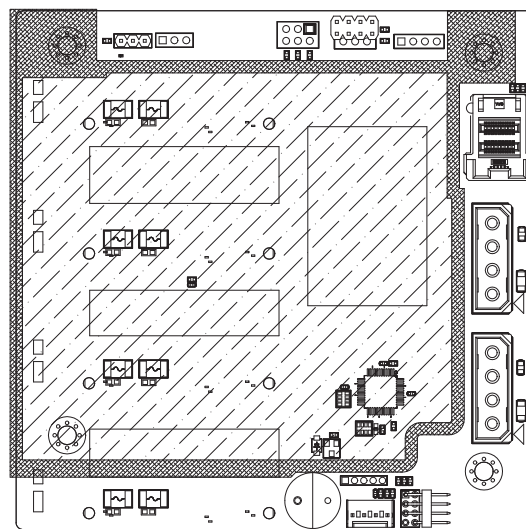
3 Backplane Introduction

The backplane varies by order. Please refer to the backplane user guide to complete the installation. The download link is located in the download section of each product page on the InWin website.

Please visit InWin website: ipc.in-win.com



Top Side



Bottom Side

4 Compatibility Lists

To reach the best performance and avoid system failure, InWin strongly recommends users to choose the components from InWin's compatibility list. All the components are tested in InWin's lab, and assured the components are complementary with InWin's chassis. You can download the latest updated device compatibility list from InWin's website: ipc.in-win.com

5 Technical Support

If you need help with installation or troubleshooting, you can contact your local InWin rep, or send an e-mail to InWin's local contacts for technical assistance.



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