Jonsbo N5

JONSBO N5 NAS PC Case Instruction Manual

Model: N5

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JONSBO N5 NAS PC Case. The JONSBO N5 is designed for multi-drive NAS storage and high-performance computing hosts, featuring a robust structure and extensive compatibility for various components. Please read this manual thoroughly before proceeding with any installation or operation.

Image 1.1: JONSBO N5 12-drive bay NAS Chassis overview.

2. PRODUCT OVERVIEW

The JONSBO N5 chassis is engineered for versatility and performance, supporting a wide range of hardware configurations. Its design incorporates an upper and lower compartment structure, optimizing space for components and airflow.

Key Features:

- **Drive Bays:** Supports 12x 3.5-inch hot-swappable HDDs in the front and 4x 2.5-inch SSDs on the side.
- **Motherboard Compatibility:** Compatible with ITX, M-ATX, ATX, and E-ATX motherboards.
- **GPU Support:** Accommodates up to 4 graphics cards.
- **Cooling System:** Features extensive fan support (Front 120mm*2 or 140mm*2, Right 120mm*3, Rear 120mm*3 (standard), Left 120mm*3) and front AIO support (240mm/280mm).
- **Power Supply:** Supports ATX power supplies (170mm-240mm).
- **Front Interface:** Includes USB 3.2 Gen2 Type-C*1 and USB 3.0*(2IN1) for high-speed data transfer.
- **Material:** Constructed from steel plate, aluminum plate, and features North American black walnut veneer.

Product Overview

N5 chassis is suitable for the formation of multi-drive NAS storage and GPU high-performance computing host, the chassis adopts the upper and lower compartment structure design, the motherboard compartment supports 8-slot EATX motherboards and full-height expansion cards, and support for 240mm/280mm water-cooled or 160mm height inner tower radiator, front panel ventilation holes with wood decoration, providing good cooling solutions while enhancing the aesthetics of the product, and the front Type C interface for high-speed data transfer. The hard drive compartment supports 12-platter hot-swappable hard drive installation, and the front Type-C interface for high-speed data transfer.

Image 2.1: JONSBO N5 NAS PC Case in a typical desktop environment.

3. SETUP AND INSTALLATION

Follow these steps for proper assembly and installation of components into your JONSBO N5 case.

3.1 Preparing the Chassis

- Carefully unpack the chassis and all accessories.
- Remove the top cover and side panels to access the internal compartments. The top cover is designed for easy removal.

Image 3.1: Front panel of the JONSBO N5 case opened to reveal drive bays.

3.2 Motherboard Installation

- Identify the correct standoff locations for your motherboard size (ITX, M-ATX, ATX, E-ATX).
- Install the necessary standoffs and carefully place your motherboard, securing it with screws.

Motherboard Support
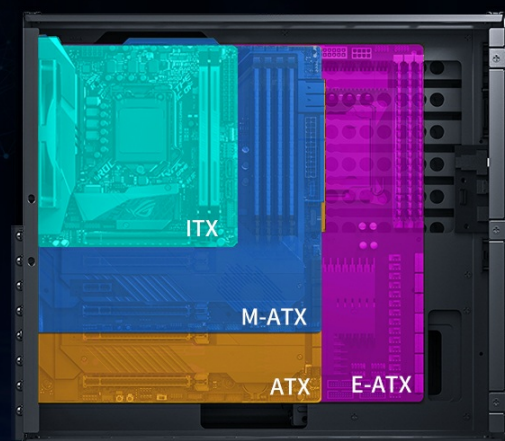
Support ITX/M-ATX/ATX/
E-ATX motherboards

ITX
M-ATX
ATX
E-ATX

3.3 Drive Installation (HDD/SSD)

- **3.5-inch HDDs:** The front compartment supports 12 hot-swappable 3.5-inch HDDs. Slide each HDD into its designated bay until it clicks into place.
- **2.5-inch SSDs:** The case supports 4x 2.5-inch SSDs for side installation. Secure these drives in their respective mounting locations.
- Connect the SATA data and power cables to the drives and the server-grade hot-swappable backplane.
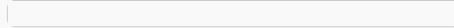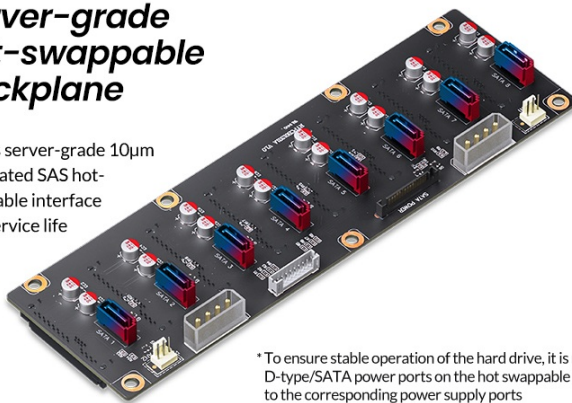
Image 3.3: Internal view highlighting the 12x 3.5-inch HDD bays and 4x 2.5-inch SSD mounting locations.
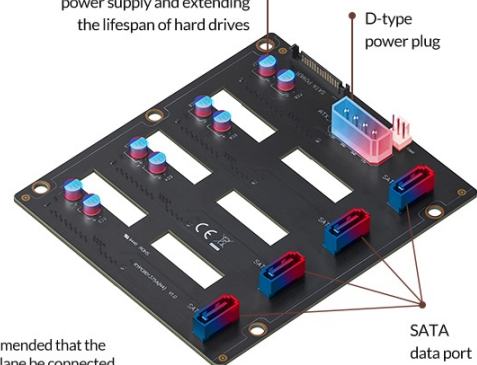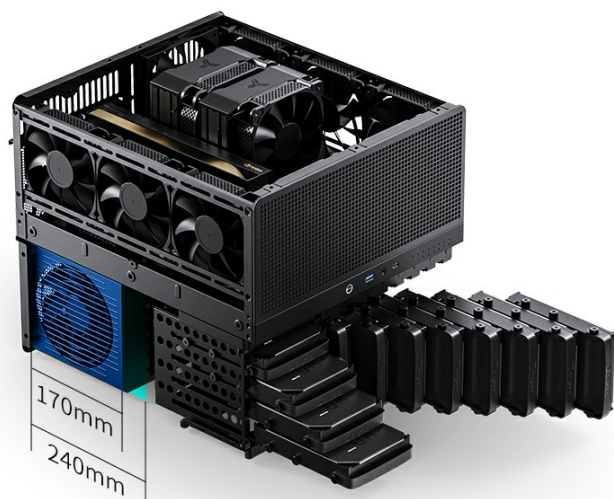

Image 3.4: Server-grade hot-swappable backplane for reliable drive connections.

3.4 Power Supply Unit (PSU) Installation

- The case supports ATX power supplies ranging from 170mm to 240mm.
- If using a PSU ≤ 170mm, all 12 front HDD slots can be utilized.
- If using a PSU ≥ 170mm, the front compartment can accommodate 8 HDD slots (requires removal of a side movable hard drive compartment).
- Mount the PSU in its designated area and connect all necessary power cables to the motherboard, drives, and other components.

Power support

ATX power supply ≤ 170mm
(front can install 12 discs)
ATX power supply > 170mm
(front can install 8 discs)

3.5 Graphics Card (GPU) Installation

- The JONSBO N5 supports up to 4 graphics cards.
- Ensure your GPU length is within the supported limits: <325mm with front AIO, or <350mm with front fans.
- Install GPUs into the available 8 PCI expansion slots.

Image 3.6: Internal view demonstrating graphics card installation and clearance.

3.6 Cooling System Setup

- The case comes standard with 3x 120mm fans installed at the rear.
- Additional fan support: Front (2x 120mm or 2x 140mm), Right (3x 120mm), Rear (3x 120mm, Standard), Left (3x 120mm).
- For water cooling, the front supports 240mm or 280mm integrated AIO solutions.
- CPU cooler height is limited to <160mm.

Image 3.7: Diagram showing various fan and cooling configurations within the chassis.

AIO Support:

Front 240mm or 280mm

Image 3.8: Illustration of AIO water cooling radiator placement in the front of the case.

3.7 Front Panel Connections

- Connect the front panel cables (USB 3.2 Gen2 Type-C, USB 3.0, audio, power, reset) to their corresponding headers on your motherboard.
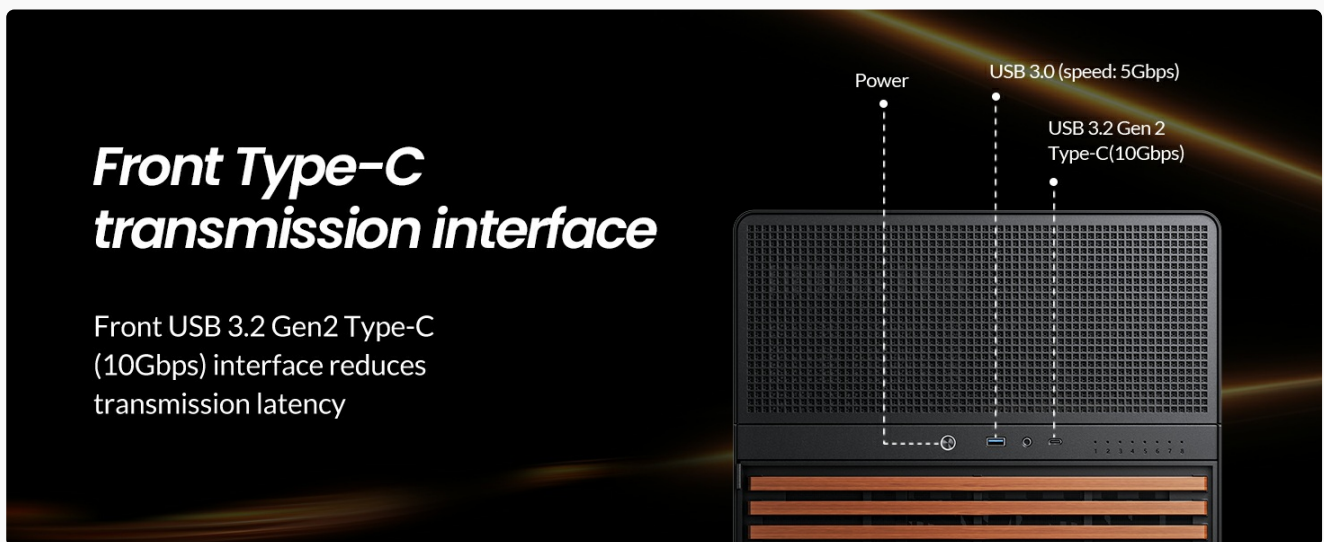

Front Type-C transmission interface

Front USB 3.2 Gen2 Type-C (10Gbps) interface reduces transmission latency

Power

USB 3.0 (speed: 5Gbps)

USB 3.2 Gen 2 Type-C(10Gbps)

Image 3.9: Detail of the front panel interfaces, including USB 3.2 Gen2 Type-C and USB 3.0 ports.

4. OPERATING INSTRUCTIONS

Once all components are installed and secured, and all cables are connected, you can power on your system.

- Ensure the power supply switch is in the 'ON' position.
- Press the power button on the front panel of the chassis.
- Monitor system boot-up and ensure all drives are detected by your operating system or NAS software.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your JONSBO N5 PC Case and its components.

5.1 Cleaning

- Periodically clean dust from the case's ventilation areas, especially the top and side panels. Use compressed air or a soft brush.
- The front dust filter is located behind a grate and is not easily removable. Use a vacuum cleaner with a brush attachment to clean it.
- For the wooden veneer, wipe gently with a dry, soft cloth. Avoid harsh chemicals.

5.2 Fan Replacement

- If a fan becomes noisy or fails, it may need replacement. Refer to the fan support specifications for compatible sizes.
- Disconnect power before attempting any internal component replacement.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

6.1 System Not Powering On

- Check if the power supply is properly connected to the wall outlet and the PSU switch is ON.
- Verify all power cables from the PSU are securely connected to the motherboard and components.
- Ensure the front panel power button cable is correctly connected to the motherboard header.

6.2 Drives Not Detected

- Confirm that SATA data and power cables are securely connected to both the drives and the hot-swappable backplane.
- Check the backplane connections to the motherboard (if applicable, via a SATA controller card).
- Ensure drives are fully seated in their bays.
- If using a PSU ≥ 170mm, confirm that the correct number of HDD slots are being used (max 8 in front).

6.3 Excessive Noise

- Inspect all fans (CPU, case, GPU, PSU) for obstructions or loose mounting.
- The included case fans may be audible; consider replacing them with quieter aftermarket fans if noise is a concern.
- Ensure all panels are securely closed to prevent rattling.

7. SPECIFICATIONS

Feature	Specification
Model Name	N5
Product Dimensions (LxWxH)	15.8 x 13.9 x 13.8 inches (W355*D403*H350mm)
Item Weight	20.6 pounds (9.37 Kilograms)

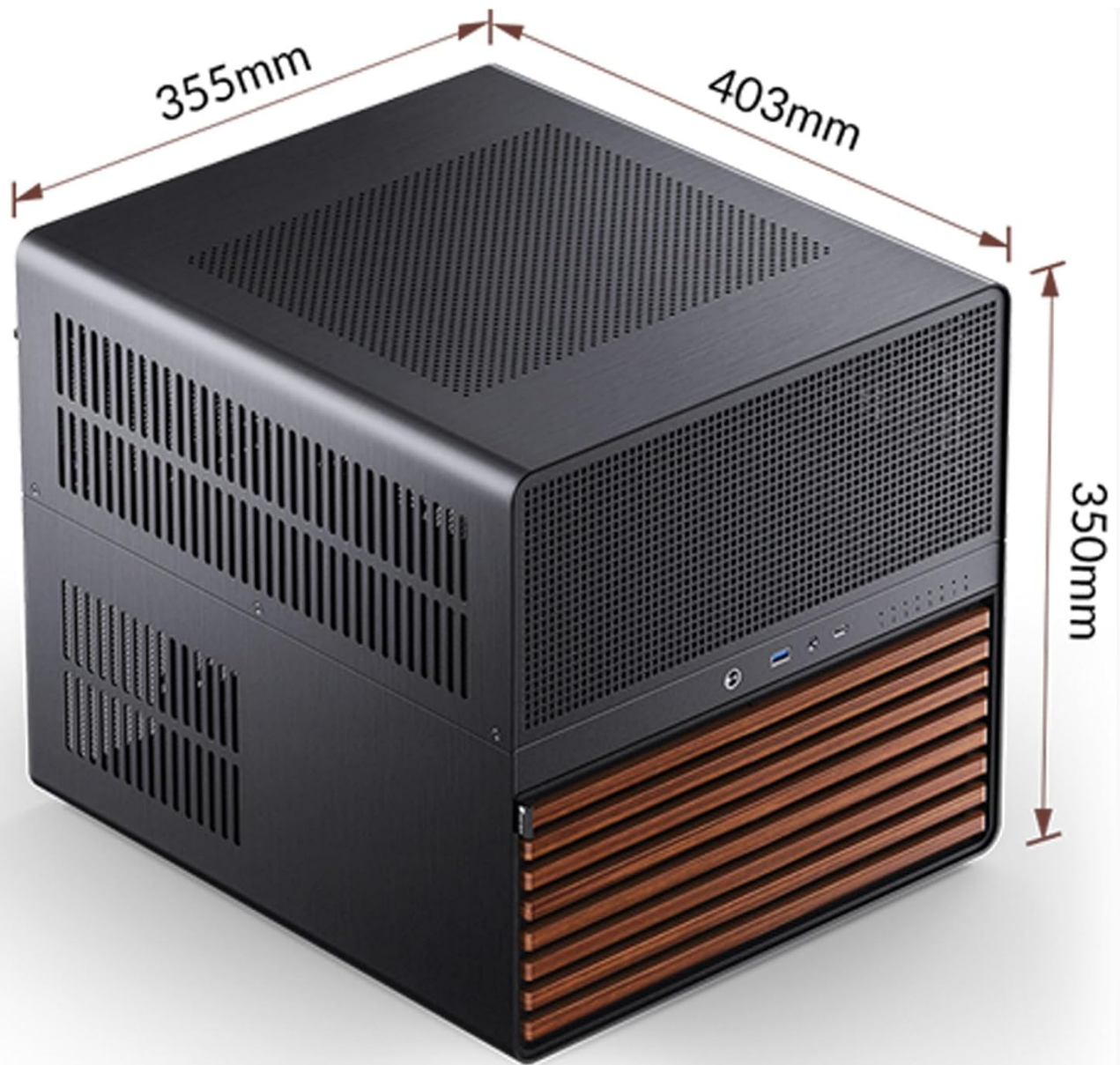| Feature	Specification
Material	Steel plate, Aluminum plate, Wood (North American black walnut veneer)
Hard Drive Bays	12x 3.5" HDD (hot-swappable), 4x 2.5" SSD
Motherboard Compatibility	ITX, M-ATX, ATX, E-ATX (up to 330mm)
PCI Expansion Slots	8 slots
Front Ports	USB 3.2 Gen2 Type-C*1, USB 3.0*(2IN1)
Power Supply Support	ATX 170mm-240mm (≤170mm for 12 HDDs, ≥170mm for 8 HDDs)
CPU Cooler Height Limit	<160mm
GPU Length Limit	<325mm (with front AIO), <350mm (with front fans)
Cooling System (Fan Support)	Front: 2x 120mm or 2x 140mm Right: 3x 120mm Rear: 3x 120mm (Standard) Left: 3x 120mm
Water Cooling Support	Front: 240mm or 280mm AIO

Image 7.1: JONSBO N5 NAS PC Case with key dimensions (W355*D403*H350mm) indicated.

Walnut veneer

North American black walnut: solid wood, natural grain

Vent

Top ventilation holes to optimize cooling efficiency

Hot Swap Backplane

Adopts server-grade 10µm gold-plated SAS hot-swappable interface
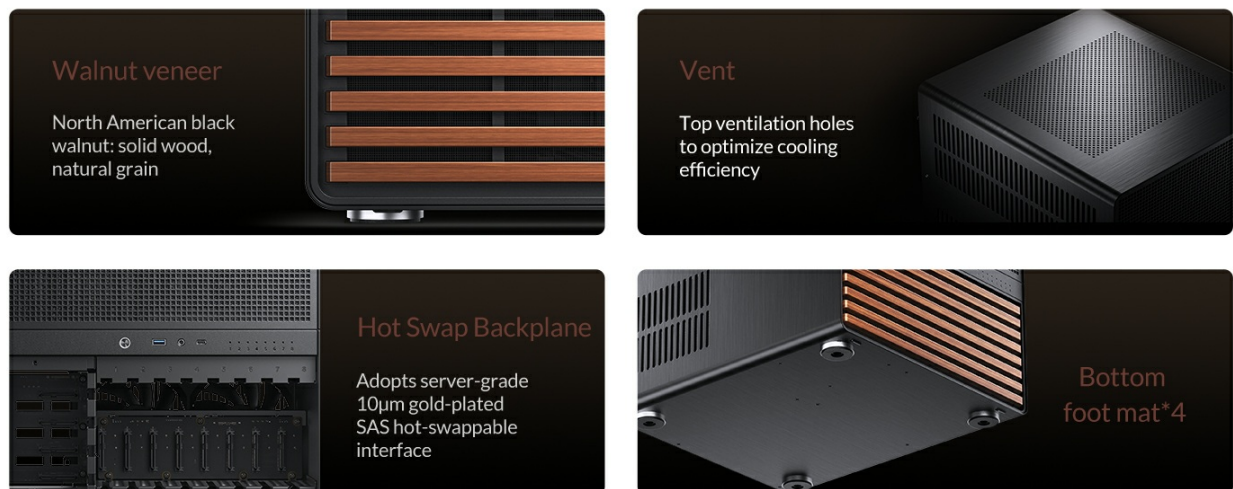
Bottom foot mat*4

Image 7.2: Detailed product specifications for the JONSBO N5 NAS PC Case.

8. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 8.1: Official JONSBO N5 PC NAS Case product video, demonstrating features and internal layout.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official JONSBO website or contact your retailer. Specific warranty terms may vary by region and retailer.

For additional protection, extended protection plans may be available for purchase separately. Please consult your retailer for details on available protection plans.