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› **JONSBO/JONSPLUS Z20 Micro-ATX Mini Tower PC Case Instruction Manual**

Jonsbo Z20

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Instruction Manual

1. INTRODUCTION

The JONSBO/JONSPLUS Z20 is a compact Micro-ATX mini tower PC case designed for high-performance hardware compatibility within a small footprint. Featuring a detachable carrying handle, this case offers portability and efficient space utilization, making it suitable for various desktop environments. Its robust construction includes 2mm thick integrated bent steel panels and comprehensive magnetic dust filters for durability and optimal system protection.



Image 1.1: The JONSBO Z20 PC Case, showcasing its compact design and internal component visibility.

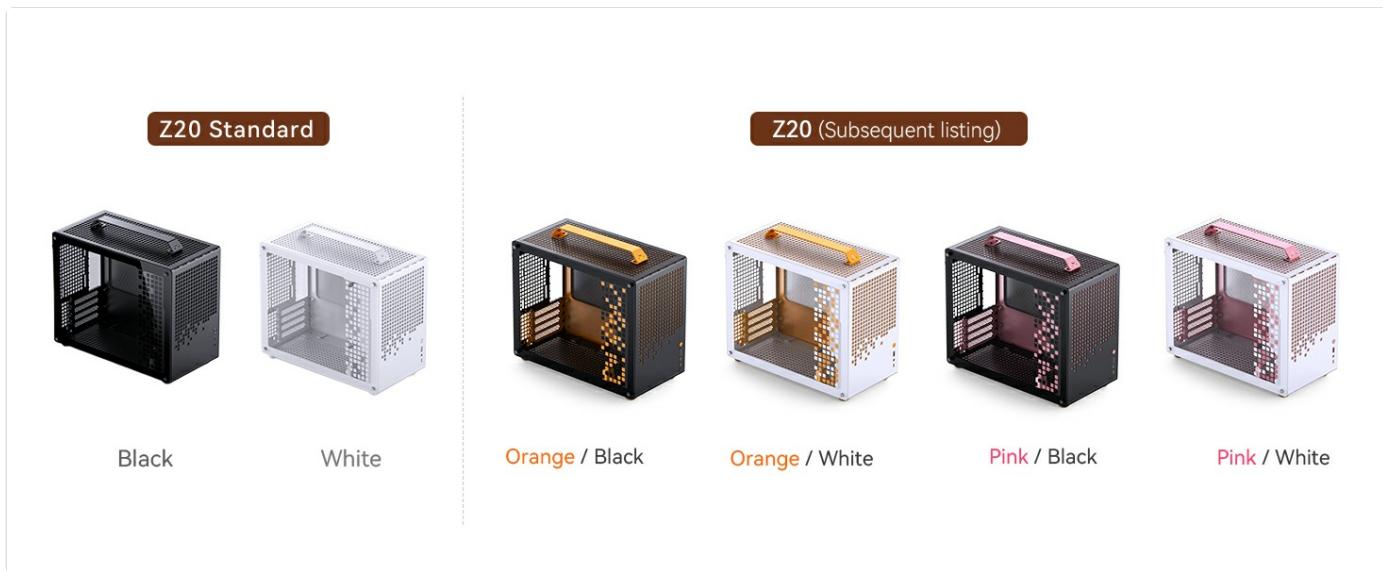


Image 1.2: The JONSBO Z20 PC Case integrated into a typical desk setup, highlighting its compact size.

2. KEY FEATURES

- **Compact Design:** Approximately 20L volume, easily placed in various desktop environments.
- **Detachable Carrying Handle:** Built with 2mm thick steel, allowing for easy transport without affecting internal hardware.
- **Robust Construction:** 2mm integrated bent steel panels with delicate square openings for heat dissipation and craftsmanship.
- **Comprehensive Magnetic Dust Filters:** Main air inlet and outlet are equipped with magnetic dust filters to protect components from environmental dust.
- **Optimized Cooling:** Supports top 240mm AIO liquid coolers (up to 60mm thickness) and CPU air coolers up to 164mm (Intel) or 163mm (AMD).
- **Extensive Fan Support:** Up to five cooling fans can be mounted (Top: 2x 120mm/140mm; Bottom: 2x 120mm/140mm; Rear: 1x 120mm or 1x 92mm).
- **High-Performance GPU Compatibility:** Supports graphics cards up to 363mm in length.
- **Adjustable Graphics Card Support Bracket:** Relieves stress on long graphics cards, preventing sagging.
- **Flexible Storage Options:** Accommodates 2x 2.5" SSDs + 1x 3.5" HDD or 3x 2.5" SSDs.
- **Efficient Cable Management:** Dedicated 22mm deep back cable routing channel with three Velcro strips.
- **Front I/O Ports:** Includes 1x USB 3.2 Gen1 Type-A, 1x USB 3.2 Gen 2 Type-C, and 1x combined audio/microphone port.

Removable handle with 2mm thickness for easy mobility

- Carrying handle, the operation is not affected by the internal hardware assembly, can be switched at any time.
- Handle and case are connected and fastened by screwless hooks, no screw holes in the case to affect the appearance after disassembling.

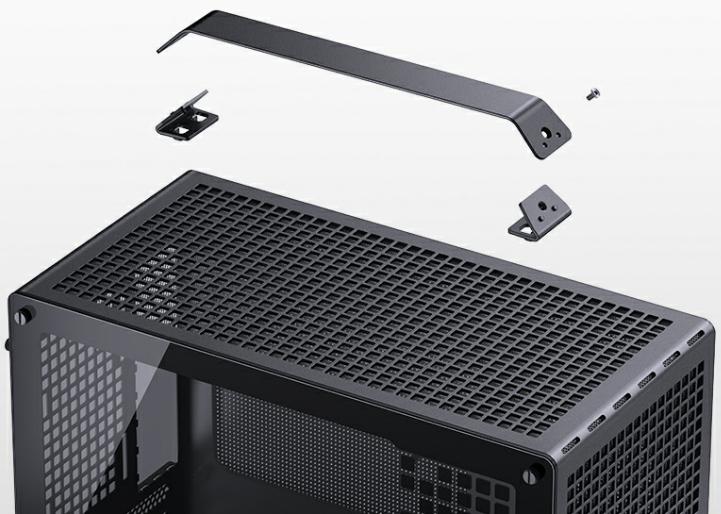


Image 2.1: Illustration of the removable carrying handle, highlighting its 2mm thickness and screwless attachment mechanism.

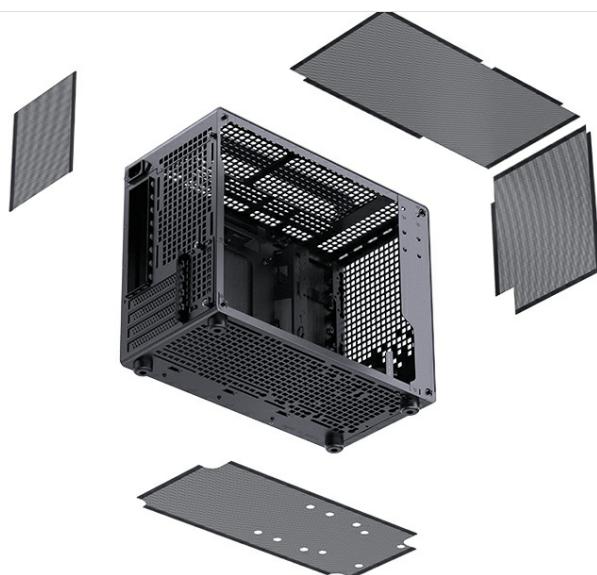


Image 2.2: Exploded view demonstrating the placement of comprehensive magnetic dust filters on the chassis.

Dedicated 22mm deep back cable routing channel (with 3 Velcro strips to limit cables)

It's often difficult to plan for cable space in a compact chassis, so the Z20 comes with dual cable routing channels on the back and Velcro strips to limit the amount of extra cables that need to be routed, easing cable routing anxiety.

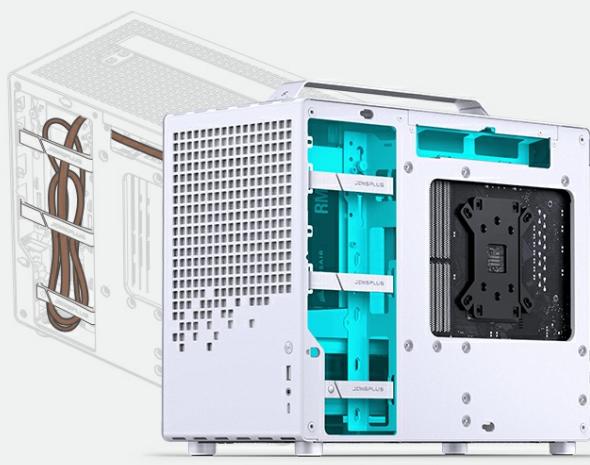


Image 2.3: Diagram illustrating the 22mm deep cable routing channel with Velcro straps for organized cable management.

3. SETUP AND INSTALLATION

3.1 Component Compatibility

The Z20 case is designed to accommodate a range of components. Careful consideration of component dimensions is essential for a smooth build process.

- **Motherboard:** Compatible with full-size Micro-ATX motherboards.
- **Graphics Card (GPU):** Supports cards up to 363mm in length. The total space from the back panel to the bottom of the card is 89mm, allowing for compatible bottom fans.
- **Power Supply (PSU):** Supports ATX/SFX/SFX-L power supplies. The power supply can be adjusted in multiple gears. Refer to the compatibility table for detailed guidance to prevent interference.
- **CPU Cooler:** Max height of 164mm for Intel CPUs and 163mm for AMD CPUs.
- **Liquid Cooling (AIO):** Top 240mm AIO compatible with up to 60mm thickness (radiator + fan).

Compatible with full-size Micro-ATX motherboards

Fully meets the demand of high performance hardware system in small volume chassis.

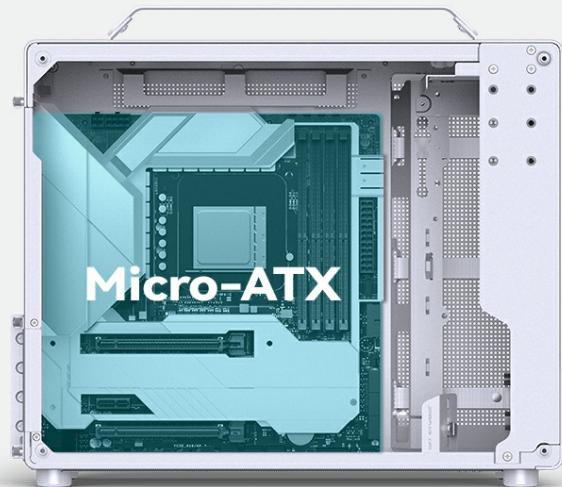


Image 3.1: Illustration of Micro-ATX motherboard compatibility within the Z20 case.

Supports high performance graphics cards up to 363mm

The total space from the back panel to the bottom of the card is 89mm, and you can choose a compatible bottom fan according to the thickness of the card (Example: with some cards, the bottom may be compatible with 12015 specification fans or no fan installed).

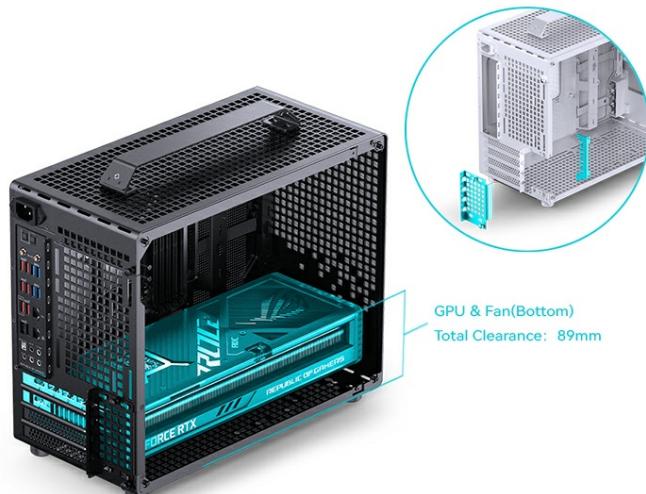


Image 3.2: Diagram indicating the maximum graphics card length of 363mm supported by the Z20 case.



Adjustable Graphics Card Support Bracket

Relieve the front end of long graphics cards from sagging due to gravity, and can be used according to the actual matching of hardware.

When installing the graphics card support bracket, the bottom of the chassis hardware can be compatible with the combination for:

- 12cm Fan x2 + 2.5"SSDx2
- 12cm/14cm Fan x1 + 3.5"HDDx1

Incompatible hardware combinations are:

- 12cm Fan x2 + 3.5"HDDx1

Image 3.3: The adjustable graphics card support bracket, designed to prevent GPU sag.

3.2 Cooling System Installation

The Z20 offers versatile cooling options to maintain optimal temperatures for your components.



Up to 5 cooling fans can be mounted

- Maximum 140mm fans can be installed on the top and bottom of the case.
- 120mm fan can be installed at the rear (air-cooled CPU cooler status), if it conflicts with the rear water-cooling pipe, 92mm fan can be installed at the rear or no fan can be installed.

Image 3.4: Exploded diagram illustrating the mounting positions for up to five cooling fans and a 240mm AIO liquid cooler.

- **Top Fans:** Supports 2x 120mm or 2x 140mm fans.
- **Bottom Fans:** Supports 2x 120mm or 2x 140mm fans.
- **Rear Fan:** Supports 1x 120mm or 1x 92mm fan. If a rear water-cooling pipe conflicts with a 120mm fan, a 92mm fan or no fan can be installed.

3.3 Storage Installation

The case provides flexible options for installing storage drives.



Image 3.5: Diagram illustrating the installation points for 2.5-inch SSDs on the back and bottom of the case.

- SSDs can be mounted on the back side or on the bottom, depending on hardware configuration.
- Bottom mounting mode can be compatible with both graphics card support bracket and 12cm fan x2 or 14cm fan x1.
- Maximum number of SSDs: 3 (2 back mounted + 1 bottom mounted).

3.4 Front I/O Interface

The front panel provides convenient access to essential ports.



Image 3.6: Close-up view of the front I/O interface, detailing the USB and audio ports.

- 1x USB 3.2 Gen1 Type-A (5Gbps)
- 1x USB 3.2 Gen 2 Type-C (10Gbps+)
- 1x Combined Audio & Microphone Port

3.5 Installation Compatibility Comparison Table

This table provides detailed compatibility information for power supply configurations and graphics card length limits based on cooling setup.

Z20 Hardware Installation Compatibility Table

Installation Compatibility Comparison Table									
Power Supply Configuration		When the length of the ATX PS2 PSU is						SFX PSU	
▼ Top Cooling Configuration		≤13cm	14cm	15cm	16cm	17cm	18cm	side installation	vertical installation
12cm fan x2 Thickness limit ≤38mm	Power Supply Suitable Installation Position:	P1	P1	P1	P1	P1	P1	side installation	P1/P2/P3
	PCI-E Slot 1 Graphics Card Length Limit [2]:	363mm	363mm	363mm ^[1]	280mm ^[3]	280mm ^[3]	273mm	363mm	363mm
	PCI-E Slot 2 Graphics Card Length Limit [2]:	363mm	363mm	363mm	363mm	363mm ^[1]	280mm ^[3]	363mm	363mm
14cm fan x2 Thickness limit ≤30mm	Power Supply Suitable Installation Position:	P2	P2	P2	P2	P2	P2	side installation	P2/P3
	PCI-E Slot 1 Graphics Card Length Limit [2]:	363mm	363mm ^[1]	280mm ^[3]	280mm ^[3]	273mm	273mm	363mm	363mm
	PCI-E Slot 2 Graphics Card Length Limit [2]:	363mm	363mm	363mm	363mm ^[1]	280mm ^[3]	280mm ^[3]	363mm	363mm
240mm AIO Radiator thickness limit ≤30mm	Power Supply Suitable Installation Position:	P2	P2	P2	P2	P2	P2	side installation	P2/P3
	PCI-E Slot 1 Graphics Card Length Limit [2]:	363mm	363mm ^[1]	280mm ^[3]	280mm ^[3]	273mm	273mm	363mm	363mm
	PCI-E Slot 2 Graphics Card Length Limit [2]:	363mm	363mm	363mm	363mm ^[1]	280mm ^[3]	280mm ^[3]	363mm	363mm
[1] In this installation mode, if the graphics card is longer, it is easier to install and manage the cables using a custom length power supply.									
[2] The graphics card is installed in the PCI-E slots of the case, depending on the motherboard specifications. The graphics card length limits shown in the table do not include the bent part of the PCI-E metal bracket (approximately 12.5mm).									
[3] Depending on the actual position of the power supply's output ports, the maximum length of the graphics card may increase by about 20mm or so. This depends on the direction of the power supply installation and the position of its output ports.									

Image 3.7: Detailed compatibility table for power supply length, cooling configurations, and graphics card length limits.

4. OPERATING CONSIDERATIONS

Once all components are installed, the JONSBO Z20 case facilitates efficient operation of your PC system. The design prioritizes airflow and component protection.

- Airflow:** The perforated panels and multiple fan mounting options are designed to create effective airflow paths, helping to dissipate heat from internal components. Ensure fans are installed in appropriate intake and exhaust configurations for optimal cooling.
- Portability:** The detachable carrying handle allows for convenient relocation of your PC system. Ensure all cables are disconnected and the system is powered off before moving.
- Stability:** The case feet provide stability and elevate the chassis to allow for bottom airflow.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your PC and its components within the Z20 case.

- Dust Filter Cleaning:** The magnetic dust filters on the main air inlets and outlets should be regularly removed and cleaned. Use compressed air or a soft brush to remove accumulated dust. Frequency depends on environmental dust levels, typically every 1-3 months.
- Internal Dust Removal:** Periodically open the side panels and use compressed air to clean dust from internal components such as CPU coolers, GPU heatsinks, and power supply fans. Ensure the PC is powered off and unplugged before performing internal cleaning.
- Exterior Cleaning:** Wipe the exterior surfaces of the case with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish.

6. TROUBLESHOOTING

This section addresses common issues that may arise during or after the PC build process within the JONSBO Z20 case.

6.1 Component Fit Issues

- Graphics Card Too Long:** Refer to the 'Installation Compatibility Comparison Table' (Image 3.7) to verify GPU length compatibility with your PSU and cooling configuration. Ensure the removable PCI-E fixing piece is correctly

positioned or removed if necessary.

- **CPU Cooler Too Tall:** Check the maximum CPU cooler height (164mm Intel / 163mm AMD) against your cooler's specifications.
- **PSU Interference:** Consult the 'Installation Compatibility Comparison Table' for optimal PSU placement based on its length and other hardware. The PSU can be adjusted in multiple gears.

6.2 Cooling Performance Issues

- **High Temperatures:** Verify that all fans are installed correctly and spinning. Ensure proper airflow direction (intake/exhaust). Clean dust filters and internal components as described in the Maintenance section. Check that AIO radiators are properly mounted and fans are functioning.
- **Fan Noise:** Ensure fans are securely mounted and not vibrating against the case. Check for cable interference with fan blades.

6.3 Front I/O Not Functioning

- **USB/Audio Ports:** Verify that the front I/O cables (USB 3.0, USB-C, HD Audio) are correctly connected to the corresponding headers on your motherboard. Refer to your motherboard manual for header locations.

7. SPECIFICATIONS

Feature	Specification
Model Name	Z20
Brand	Jonsbo
Case Type	Mini-Tower
Motherboard Compatibility	Micro ATX
Color	BLACK
Material	Metal
Item Weight	14.27 pounds
Product Dimensions (LxWxH)	13 x 13 x 7.5 inches (330 x 330 x 190.5 mm)
Main Body Size (LxWxH)	370 x 186 x 295 mm (14.56 x 7.32 x 11.6 inches) (excluding protruding objects)
Expansion Slots	4
Front I/O Ports	1x USB 3.2 Gen1 Type-A, 1x USB 3.2 Gen 2 Type-C, 1x Audio & Mic
GPU Clearance	Up to 363mm
CPU Air Cooler Clearance	164mm MAX (Intel), 163mm MAX (AMD)
Water Cooling Support	Top 240 AIO (60mm thickness compatible)
Fan Support	Top: 2x 120mm/140mm; Bottom: 2x 120mm/140mm; Rear: 1x 120mm/92mm
Storage Drive Bays	2x 2.5" SSD + 1x 3.5" HDD or 3x 2.5" SSD
Power Supply Mounting Type	Bottom Mount (ATX/SFX/SFX-L)



Image 7.1: Dimensional drawing of the JONSBO Z20 PC case.

8. WARRANTY AND SUPPORT

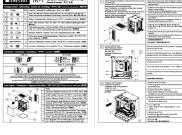
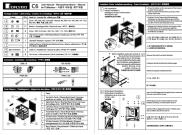
For warranty information, technical support, or service inquiries, please refer to the official Jonsbo website or contact your retailer. Keep your proof of purchase for warranty claims.

You can visit the Jonsbo Store for additional product information and support:[Jonsbo Store on Amazon](#)

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Related Documents - Z20

 User Guide <small>用户指南 / Mode d'emploi / Benutzerhandbuch / Guía del usuario / 사용자 설명서</small>	<p>JONSBO BO400CG Computer Case User Guide - Installation and Specifications</p> <p>Comprehensive user guide for the JONSBO BO400CG computer case, detailing technical specifications, compatibility, and step-by-step installation instructions for components like motherboards, power supplies, storage, and graphics cards.</p>
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 User Guide 	<p>JONSBO BO400 Computer Case Installation Manual and Specifications</p> <p>Comprehensive guide to installing and configuring the JONSBO BO400 ATX computer case, detailing technical specifications, component compatibility, cooling options, and step-by-step assembly instructions.</p>
	<p>JONSBO TK-1 PC Case: Installation Guide and User Manual</p> <p>This document provides a comprehensive installation guide and user manual for the JONSBO TK-1 PC case. It covers package contents, a detailed parts list, and step-by-step instructions for assembling your computer system within the TK-1 chassis, including guidance on installing the motherboard, PSU, storage drives (SSD/HDD), graphics card, and cooling components. Ensure all steps are followed for proper setup.</p>
 User Guide 	<p>JONSBO D32 STD Computer Case User Guide</p> <p>Comprehensive user guide for the JONSBO D32 STD computer case, covering technical specifications, compatibility, and detailed installation instructions for all major PC components. Includes parts list and guidance for motherboard, power supply, storage, graphics card, and cooling systems.</p>
	<p>JONSBO C6 PC Case: User Manual and Installation Guide</p> <p>Comprehensive user manual and installation guide for the JONSBO C6 PC case. This document details package contents, component identification, and step-by-step assembly instructions for building your PC.</p>
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