

SilverStone DS380B

SilverStone Technology Premium Mini-ITX/DTX Small Form Factor NAS Computer Case

USER MANUAL

1. Product Overview

The SilverStone DS380B is a premium Mini-ITX/DTX small form factor computer case designed specifically for Network Attached Storage (NAS) applications. It offers exceptional storage capacity and versatility within a compact 21-liter chassis, making it ideal for users with large media libraries or those building powerful SFF systems.

This case supports standard components including Mini-ITX motherboards, standard-length dual-slot expansion cards, and entry-level liquid CPU cooling systems. It features an advanced cooling system with two 120mm intake fans and one 120mm exhaust fan, all equipped with externally removable filters to maintain a cool and dust-free internal environment.

A signature feature of the DS380B is its modular eight hot-swappable drive cage, supporting both 3.5-inch and 2.5-inch SATA/SAS drives. Additionally, it includes four fixed 2.5-inch drive bays, allowing for a total of 12 drives. The front door is made of brushed aluminum and includes a lockable power button for enhanced security.



Figure 1.1: Front view of the SilverStone DS380B NAS Computer Case.



Figure 1.2: Angled view of the SilverStone DS380B, showcasing its compact design and brushed aluminum front panel.

Key Features:

- Support for 12 total drives: 8 hot-swappable 3.5" or 2.5" SAS/SATA drives and 4 fixed 2.5" drives.
- Compact small form factor design with extensive storage capabilities.
- Premium brushed aluminum front door for a sleek appearance.

- Accommodates graphics cards up to 11 inches in length.
- Lockable power button and adjustable LED brightness for security and user preference.
- Three pre-installed 120mm fans with filtered intake vents for efficient cooling and dust prevention.

2. Setup and Component Installation

This section provides general guidelines for installing components into your SilverStone DS380B case. For detailed instructions specific to your motherboard, power supply, and other components, please refer to their respective manuals.

2.1 Opening the Case

To access the interior of the case, remove the screws securing the side panels. Carefully slide the panels backward and lift them off. The front door can be opened to reveal the hot-swappable drive bays and front I/O ports.



Figure 2.1: Front of the DS380B with the door open, showing the hot-swappable drive bays and front panel connectors.

2.2 Motherboard Installation

The DS380B supports Mini-ITX motherboards. Install the necessary standoffs in the motherboard tray. Carefully align your motherboard with the standoffs and I/O shield, then secure it with screws. Due to the compact nature of the case, it

may be necessary to temporarily loosen or remove the front drive cage to facilitate motherboard installation and cable routing.



Figure 2.2: Internal view of the DS380B, highlighting the motherboard mounting area and internal structure.

2.3 Drive Installation

The case features eight hot-swappable bays for 3.5" or 2.5" drives and four fixed 2.5" drive bays. For the hot-swappable bays, attach the provided plastic rails to your drives and slide them into the bays until they click into place. Ensure proper connection to the backplane for SATA/SAS and power.



Figure 2.3: Close-up view of the hot-swappable drive bays, designed for easy installation and removal of drives.

The four fixed 2.5" drive bays are located internally and require screws for installation. Refer to the case diagram for their exact locations.



Figure 2.4: Included accessories such as drive rails for hot-swap bays and keys for the front door lock.

2.4 Power Supply and Cable Management

Install your SFX or SFX-L power supply in the designated area. Carefully route all power and data cables to their respective components. Due to the small form factor, efficient cable management is crucial for optimal airflow and ease of access. Utilize cable ties to bundle and secure cables away from fan blades and airflow paths.



Figure 2.5: Rear view of the DS380B, showing the I/O shield cutout, expansion slots, and exhaust fan.

3. Operating Instructions

3.1 Powering On/Off

To power on your system, press the power button located on the front panel. To power off, press and hold the power button, or use the shutdown option within your operating system.

3.2 Lockable Power Button

The DS380B features a lockable front door and power button for added security. Use the provided keys to lock the front door, which prevents accidental power-offs or unauthorized access to the hot-swappable drives and power button.



Figure 3.1: The lock mechanism on the front door, which secures the power button and hot-swap bays.

3.3 Hot-Swapping Drives

The eight front drive bays support hot-swapping. Ensure your operating system and motherboard support hot-swapping before attempting to remove or insert drives while the system is running. Always safely eject or unmount drives through your operating system before physically removing them to prevent data loss.

4. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your computer case and its components.

4.1 Dust Filter Cleaning

The DS380B is equipped with externally removable dust filters on its top and side panels. These filters prevent dust from entering the case and should be cleaned regularly, depending on your environment. Gently slide out the filters, clean them with water and mild soap, or use a vacuum cleaner, then ensure they are completely dry before reinserting.

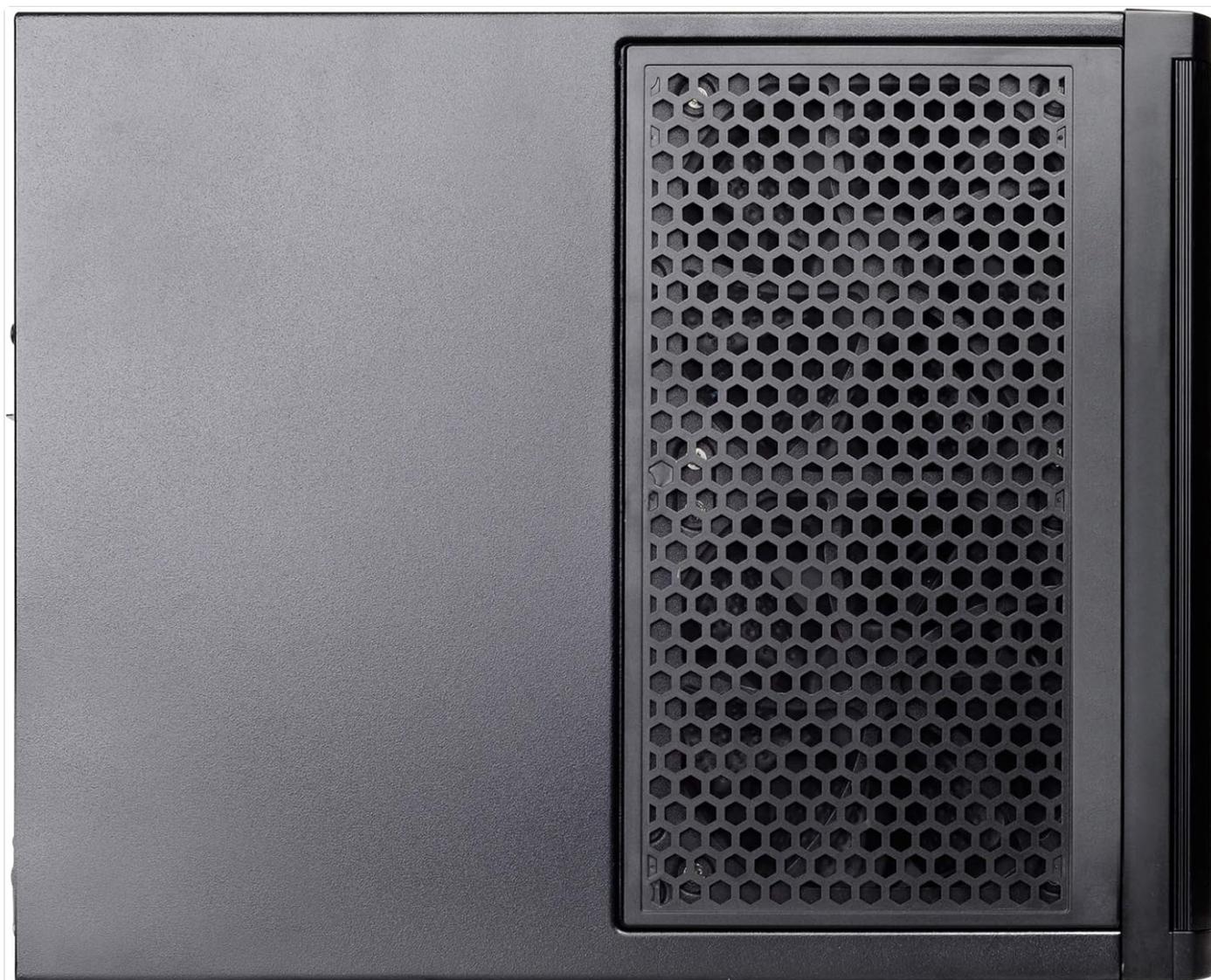


Figure 4.1: Side view of the DS380B, illustrating the location of the removable dust filter for easy maintenance.

4.2 Fan Cleaning

Periodically inspect the internal 120mm fans for dust buildup. If necessary, use compressed air to gently clean the fan blades and grilles. Ensure the system is powered off and unplugged before performing any internal cleaning.



Figure 4.2: Close-up of one of the internal 120mm fans, responsible for maintaining airflow within the case.



Figure 4.3: View of two 120mm fans, part of the case's cooling system, ensuring efficient heat dissipation.

5. Troubleshooting

This section addresses common issues you might encounter with your DS380B case. For more complex problems, please refer to the official SilverStone support resources.

5.1 High Drive Temperatures

If your hard drives are running hotter than expected, consider the following:

- **Airflow Obstruction:** Ensure that internal cables are neatly managed and do not obstruct airflow from the intake

fans to the drive bays.

- **Dust Buildup:** Clean the dust filters and internal fans regularly as described in the Maintenance section.
- **Fan Speed:** Check your motherboard's BIOS/UEFI settings or fan control software to ensure case fans are operating at appropriate speeds.
- **Drive Density:** While the case supports many drives, populating all bays with high-RPM mechanical drives can generate significant heat. Ensure adequate cooling for your specific drive configuration.

5.2 Excessive Fan Noise

If the case fans are producing excessive noise:

- **Dust Buildup:** Clean the fan blades. Dust can cause imbalance and increase noise.
- **Loose Screws:** Ensure all fan mounting screws are tightened.
- **Fan Speed:** Adjust fan speeds through your motherboard's BIOS/UEFI or fan control software to find a balance between cooling performance and noise level.
- **Vibration:** Check if any cables are touching the fan blades or if the case is on an uneven surface, causing vibrations.

5.3 System Not Powering On

If your system fails to power on:

- **Power Connections:** Verify all power supply cables are securely connected to the motherboard, CPU, and other components.
- **Front Panel Connectors:** Ensure the power button cable from the front panel is correctly connected to the motherboard's front panel header.
- **Power Button Lock:** Check if the front door is locked, which can disable the power button. Unlock the door using the provided key.
- **Power Outlet/PSU:** Confirm the power supply unit (PSU) is switched on and the power cable is securely plugged into a working wall outlet.

6. Specifications

Below are the key specifications for the SilverStone DS380B computer case:

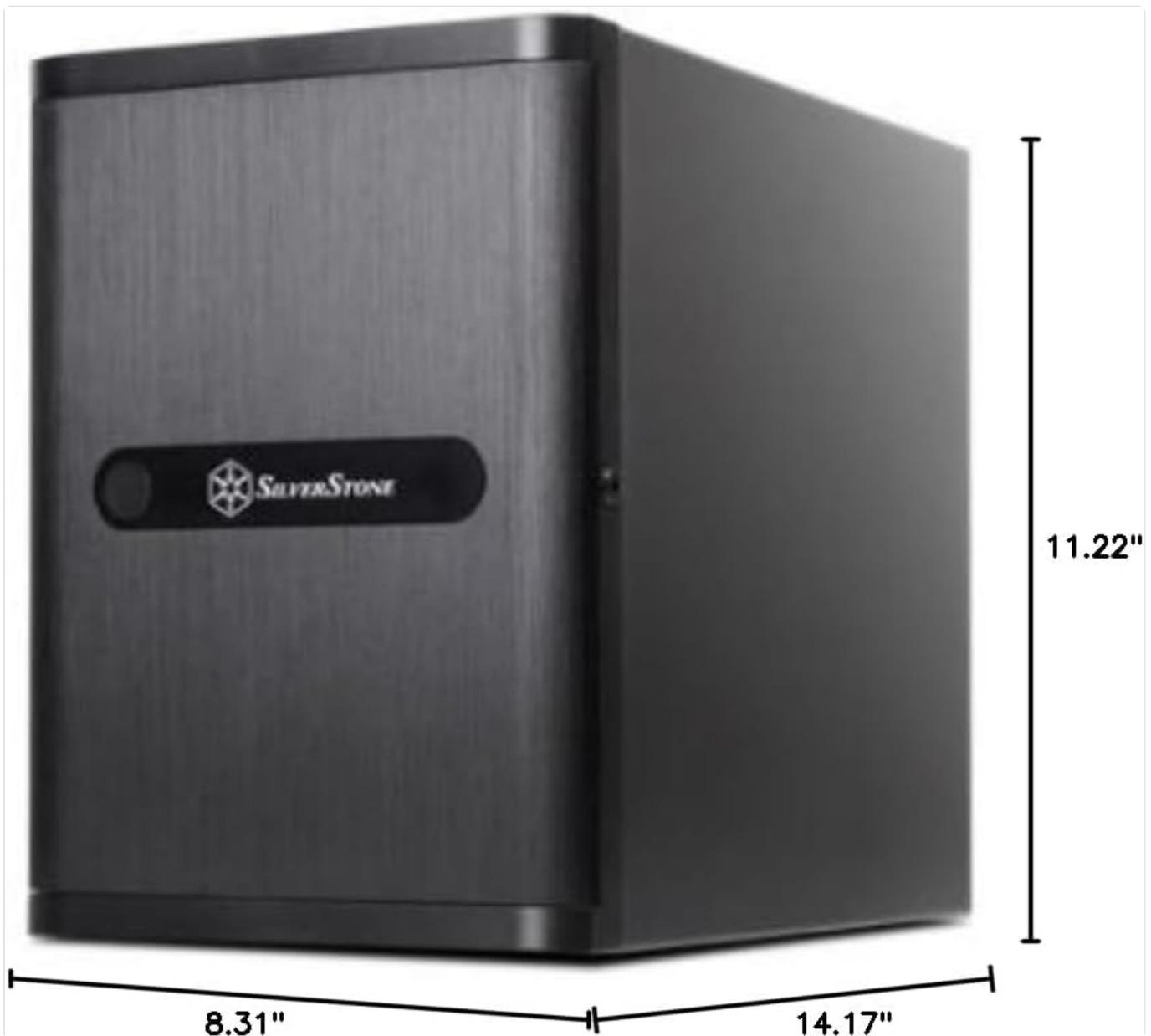


Figure 6.1: Dimensional drawing of the SilverStone DS380B case.

Feature	Detail
Model Number	DS380B
Case Type	Mini-Tower (Small Form Factor)
Motherboard Compatibility	Mini-ITX, Mini-DTX
Material	Aluminum front door, SECC body
Dimensions (LxWxH)	8.3 x 14.2 x 11.2 inches (211 x 360 x 285 mm)
Weight	1 pounds (approx. 4.5 kg actual shipping weight)
Drive Bays	8 x Hot-swappable 3.5"/2.5" SAS/SATA, 4 x Fixed 2.5"
Cooling System	2 x 120mm intake fans, 1 x 120mm exhaust fan
Front I/O Ports	2 x USB 3.0, 1 x Audio-out
Expansion Slots	2 (supports graphics cards up to 11 inches)

Feature	Detail
Power Supply Support	SFX, SFX-L (top mount)

7. Warranty Information

For detailed warranty terms and conditions for your SilverStone DS380B computer case, please refer to the official documentation provided by SilverStone Technology. Warranty information is typically included with the product packaging or available on the manufacturer's official website.

An official User Manual (PDF) for this product is available for download, which may contain specific warranty details. You can access it via this link: [SilverStone DS380B User Manual PDF](#).

8. Customer Support

If you require further assistance, technical support, or have questions regarding your SilverStone DS380B computer case, please contact SilverStone Technology customer support. You can typically find contact information on their official website.

For more information about SilverStone products, you can visit the official SilverStone Store: [SilverStone Store on Amazon](#).

9. Product Videos

No official product videos from the seller were found for this item that meet the criteria for inclusion in this manual.

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Model: DS380B

Documents - SilverStone – DS380B



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DS380 - 8 12 , 8 3,5- 2,5- SAS/SATA 4 2,5- - 11- ... rt Four 2.5 drive bays DS380 SFF- 8 hot-swappable drive bays Dual expansion slots SST-**DS380B** /USB 3.0 x 2 / audio x 1 / MIC x 1 , SECC SFX PSU - Mini-DTX, Mi...

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SilverStone SST DS380 obudowa do przechowywania mini ITX komputerowa obsŁuga 20 x 9 5 cm lub 6 zatoki HDD Hot Swap zamykane drzwi wejŚciowe czarna Sklep internetowy stylem pl silverstone sst ds380 itx obsluga hdd hot swap upload files product wejsciove 262704 |||

SilverStone SST-DS380 - obudowa do przechowywania mini-ITX obudowa komputerowa, obsluga 20 x 9,5 cm ... _plug waga przedmiotu: 6 kilograms marka: SilverStone Technology ogline slowo kluczowe: nas ds380 **ds380b** c2550d4i for chassis hotswap, pc cases mini-atx enclosure drives small casse, matx naz bay 3... lang:pl **score:24** filesize: 217.87 K page_count: 3 document date: 2023-06-03



[pdf] User Manual Accessories

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DS380 Premium SFF chassis with unbelievable storage capacity DATA STORAGE SERIES DS380 Premium SFF ... 120mm fans with filtered intake vents Model No. Material Motherboard Drive Bay Cooling System SST-**DS380B** Aluminum front door, SECC body Mini-DTX, Mini-ITX External 3.5 SAS/ SATA hot-swap x 8 2.5 ... lang:en **score:23** filesize: 2.87 M page_count: 32 document date: 2018-03-01



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shadow Multi DS380 Manual Limitation of CPU cooler SST DS380B Aluminum front door SECC body Mini DTX ITX External Internal 3 5 SAS SATA hot swap x 8 2 compatible 4 Rear Left 1 120mm 1200rpm 22dBA USB 0 2 audio 1 MIC SFX PSU sold separately *Compatible with 11 long and 38 wide silverstonetek storage 80

DS380 Premium 8-bay small form factor NAS chassis DESKTOP STORAGE DS380 Premium 8-bay small form f ... 120mm fans with filtered intake vents Model No. Material Motherboard Drive Bay Cooling System SST-**DS380B** Aluminum front door, SECC body Mini-DTX, Mini-ITX External 3.5 SAS/ SATA hot-swap x 8 2.5 ... lang:en **score:23** filesize: 4.73 M page_count: 32 document date: 2018-11-16



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shadow DS380 Product Sheet KR silverstonetek upload sstedm ds380 ||| DS380 8- NAS 8 3.5 2.5 SAS/SATA 4 2.5 12 TJ08-E 11 GD07 ... liquid cooling support Four 2.5 drive bays DS380 SFF 8 hot-swappable drive bays SST-**DS380B** I/O , SECC Mini-DTX, Mini-ITX 8 3.5 3.5 SA2S.5/ SASTAASH/oSt-AsTwAapx8... lang:en **score:20** filesize: 302.97 K page_count: 3 document date: 2013-12-09



[\[pdf\]](#) Safety Datasheet

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hot-swappable drive bays SST-**DS380B** , Mi nSi-FDFT X, Mini-ITX 1238.5
3.S5A/S2/.S5ATA x 84 2.52.5 2.5 x 4 TJ08-E1x120mm ...

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DS380 Premium SFF chassis with unbelievable storage capacity DATA STORAGE
SERIES DS380 Premium SFF ... 120mm fans with filtered intake vents Model No.
Material Motherboard Drive Bay Cooling System SST-**DS380B** Aluminum front door,
SECC body Mini-DTX, Mini-ITX External 3.5 SAS/ SATA hot-swap x 8 2.5 ...

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