

## SilverStone GD09B

# SilverStone Technology Grandia Series GD09B HTPC Computer Case Instruction Manual

Model: GD09B | Brand: SilverStone

## 1. INTRODUCTION

The SilverStone Grandia Series GD09B is a high-performance Home Theater Personal Computer (HTPC) case designed for optimal space efficiency and component compatibility. It supports full-size components including ATX power supplies, ATX motherboards, 5.25-inch drives, 3.5-inch, and 2.5-inch drives, all within a compact form factor suitable for most living room TV stands or home theater cabinets.

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your GD09B case, ensuring a smooth and efficient build experience.

## 2. KEY FEATURES

- Positive air pressure design for excellent cooling, quiet operation, and dust prevention.
- Supports expansion cards up to 12.2 inches (309mm).
- Compatible with ATX motherboards.
- Includes quick-access dust filters.
- Incredible 358mm depth to fit comfortably inside home theater cabinets.

## 3. SETUP AND INSTALLATION

### 3.1. Case Overview

The GD09B features a sleek black aluminum exterior with a mesh front panel for optimal airflow. The front panel includes essential I/O ports and controls for convenient access.



Figure 1: Front-right view of the SilverStone Grandia GD09B case, showcasing its compact design and front panel features.

### 3.2. Opening the Case

To access the internal components, remove the top panel. This is typically secured by two thumbscrews at the rear of the case. Once unscrewed, the top panel can be unhooked and lifted off, similar to a standard side panel but with the added weight of the top for stability.



Figure 2: Rear view of the GD09B case, highlighting the thumbscrews for panel removal.

### 3.3. Motherboard Installation

The GD09B supports Mini-ITX, Micro-ATX, ATX, and SSI-CEB motherboards. Ensure all necessary standoffs are in place before securing the motherboard. It is recommended to connect all bottom motherboard connectors (e.g., front panel headers, USB headers) before installing fans or other components that might obstruct access.

### 3.4. Power Supply Unit (PSU) Installation

The PSU is installed in the top-right corner of the case. While the case can technically accommodate very long PSUs, it is advisable to use PSUs with a length of 160-170mm to avoid interfering with front panel components or fan spots. Consider modular PSUs for better cable management.

### 3.5. Graphics Card (GPU) Installation

The case offers ample length for GPUs, supporting cards up to 340mm. However, pay close attention to the GPU's height (thickness). Officially, cards up to 151mm thick are supported. For thicker cards, especially those with top-mounted power connectors, a 90-degree adapter for power cables is highly recommended to prevent severe cable bends and potential damage.

### 3.6. Drive Installation

The GD09B provides flexible storage options:

- **3.5-inch Drives:** Up to three 3.5-inch drives can be installed using the removable drive cage.
- **2.5-inch Drives:** Up to two 2.5-inch drives can be installed. One can be mounted on the underside of the optical drive mount, and another can be placed in an additional cage provided in the accessories box, which mounts behind the PSU.
- **5.25-inch Drive:** One external 5.25-inch drive bay is available.

The drive cage can be removed to facilitate easier installation of other components or to improve airflow if not all drive bays are needed. The structural crossbar can also be removed or loosened for better access during installation.

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Video 1: This video demonstrates the installation of hard drives into a cage, which is a similar process for the GD09B's drive bays.

### 3.7. Front Panel Connections

The front panel features:

- Power and Reset buttons.
- Combined audio in/out jack.
- 1x USB 3.2 Type-C port.
- 2x USB 3.0 Type-A ports.

There is also a toggle switch to hide the power and drive activity LEDs for a less distracting experience in a home theater environment.

## 4. OPERATING THE GD09B

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Once all components are installed and connected, ensure all cables are properly routed and secured to prevent interference with fans or airflow. Close the case panels securely. Connect your peripherals (monitor, keyboard, mouse, etc.) and power cable. Press the power button on the front panel to start your system.

The GD09B is designed for quiet operation, making it ideal for home theater setups. The positive air pressure design helps keep dust out and components cool.

## 5. COOLING AND AIRFLOW

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The GD09B features a sophisticated cooling design with multiple fan spots and radiator support:

- **Front:** Supports up to two 120mm fans.
- **Side (Left):** Supports up to two 120mm fans.
- **Side (Right):** Supports up to two 120mm fans.
- **Rear:** Supports two 80mm fans.

The case comes with quick-access dust filters for easy cleaning and maintenance, contributing to the positive air pressure design.

### 5.1. Radiator Support

For liquid cooling, the GD09B supports up to a 240mm All-In-One (AIO) radiator in the front panel area. Due to space constraints, air coolers are limited to top-down blowers or very small tower coolers, with a maximum height of

146mm.

## 5.2. Fan Orientation and Airflow Strategy

Optimal airflow is crucial for maintaining low temperatures. The positive air pressure design is intended to push air into the case, preventing dust buildup. Experimenting with fan orientations can significantly impact thermal performance, especially when the case is placed in an enclosed space like a TV cabinet. For best results, consider an airflow configuration where front and side fans act as intake, and rear fans act as exhaust. If the case is in a confined space, orienting fans to push air out of the front can sometimes yield better results by preventing hot air recirculation within the enclosure.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your GD09B case and its components.

- **Dust Filters:** The GD09B includes quick-access dust filters on the side panels. Regularly remove and clean these filters to maintain good airflow and prevent dust accumulation inside the case.
- **Internal Cleaning:** Periodically open the case and use compressed air to clean dust from fans, heatsinks, and other components.
- **Cable Management:** Ensure internal cables are neatly managed to avoid obstructing airflow.

## 7. TROUBLESHOOTING

- **Overheating:** If components are running hot, check fan orientation and ensure dust filters are clean. Consider optimizing fan speeds or adding additional fans if spots are available. Ensure the case has adequate clearance for airflow, especially if placed in a cabinet.
- **Component Fit Issues:** Double-check component dimensions against case specifications, particularly for GPUs (length and height) and PSUs (length).
- **Front Panel Issues:** If front panel I/O or buttons are not working, verify all internal headers are correctly connected to the motherboard.
- **Loose Panels:** Ensure all thumbscrews are tightened and panels are properly hooked into place.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	SST-GD09B
Dimensions (LxWxH)	14.09 x 17.32 x 6.69 inches (358 x 440 x 170 mm)
Material	Aluminum
Motherboard Compatibility	ATX, Micro-ATX, Mini-ITX, SSI-CEB
PSU Mounting Type	Rear Mount
Expansion Slots	7
Drive Bays	External 5.25" x 1, Internal 3.5" x 3, Internal 2.5" x 2
Front I/O Ports	USB 3.0 x 2, USB 3.2 Type-C x 1, Audio x 1


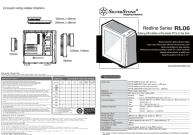

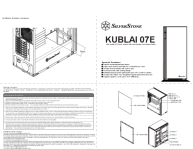
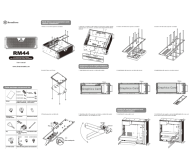
Cooling Method	Air
Fan Support	Front 120mm x 2, Side 120mm x 4, Rear 80mm x 2
Max GPU Length	340mm (12.2 inches)
Max CPU Cooler Height	146mm

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official SilverStone Technology website or contact their customer service directly. Keep your purchase receipt for warranty claims.



### Related Documents - GD09B

	<p><a href="#">SilverStone FLP01 Retrofitted HTPC Chassis: Installation Guide and Specifications</a></p> <p>A comprehensive guide for the SilverStone FLP01 retrofitted HTPC chassis, detailing installation steps, component restrictions, and warranty information. Learn how to assemble and optimize your HTPC build with this official manual.</p>
	<p><a href="#">SilverStone Redline Series RL06 PC Case - Specifications and Installation Guide</a></p> <p>Detailed specifications and installation guidelines for the SilverStone Redline Series RL06 PC case, highlighting its features, component compatibility, and limitations.</p>
	<p><a href="#">SilverStone FARA 515XR ATX Mid-Tower Chassis Installation Guide</a></p> <p>Comprehensive installation guide for the SilverStone FARA 515XR ATX Mid-Tower PC Chassis, detailing component compatibility, assembly steps, and warranty information.</p>
	<p><a href="#">SilverStone Kublai KL07 ATX Tower Chassis - Features, Specifications, and Guidelines</a></p> <p>Detailed overview of the SilverStone Kublai KL07 ATX tower computer case, including its special features, comprehensive specifications, component compatibility limitations (CPU cooler, PSU, graphics card), and warranty information.</p>
	<p><a href="#">SilverStone KUBLAI 07E ATX Tower Chassis - High Quality, Silent Design</a></p> <p>Detailed overview of the SilverStone KUBLAI 07E ATX tower computer case, featuring silent design, special features, dimension guidelines for CPU cooler, PSU, graphics cards, and radiator, along with comprehensive warranty information.</p>
	<p><a href="#">SilverStone RM44 4U Rackmount Server Chassis User Manual</a></p> <p>Comprehensive user manual for the SilverStone RM44 4U rackmount server chassis, detailing installation procedures, component compatibility, height and depth restrictions, and warranty information.</p>

