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Thermaltake CA-1Z9-00S1WN-00

Thermaltake Tower 250 Black Mini-ITX Mini Tower Instruction Manual

Model: CA-1Z9-00S1WN-00

Overview Package Contents Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The Thermaltake Tower 250 is a Mini-ITX mini tower chassis designed for compact yet powerful PC builds. It features a distinctive octagonal prism shape and a vertical design, optimizing space while supporting high-performance components. This manual provides detailed instructions for assembly, operation, and maintenance of your Tower 250 chassis.





Figure 1.1: Front view of the Thermaltake Tower 250 Black Mini-ITX Mini Tower PC Case.

Key Features:

- **Space-Efficient Design:** Compact vertical form factor saves valuable desk space.
- **High Component Support:** Accommodates GPUs up to 360mm (without power cover), CPU coolers up to 210mm, and radiators up to 360mm.
- **SFX PSU Ready:** Includes a pre-installed SFX bracket for improved airflow in the bottom chamber, supporting both SFX and ATX power supplies.
- **Optimized Cooling:** Features two pre-installed 120mm CT exhaust fans at the top and supports up to eight 120mm fans for efficient airflow.
- **Unique Layout Options:** Supports horizontal placement with an optional Chassis Stand Kit (sold separately).
- **Tool-Free Access:** Magnets and push clips allow for easy removal and installation of outer panels.
- **Removable Dust Filters:** Easily accessible dust filters simplify maintenance.

2. Package Contents

Please verify that all components are present in your package. If any items are missing or damaged, contact your retailer or Thermaltake support.

- Thermaltake Tower 250 Chassis
- 2 x 120mm CT Fans (pre-installed)
- Accessory Box (screws, cable ties, SFX PSU bracket, user manual)
- Tempered Glass Panels (3x)
- Perforated Side Panels (2x)

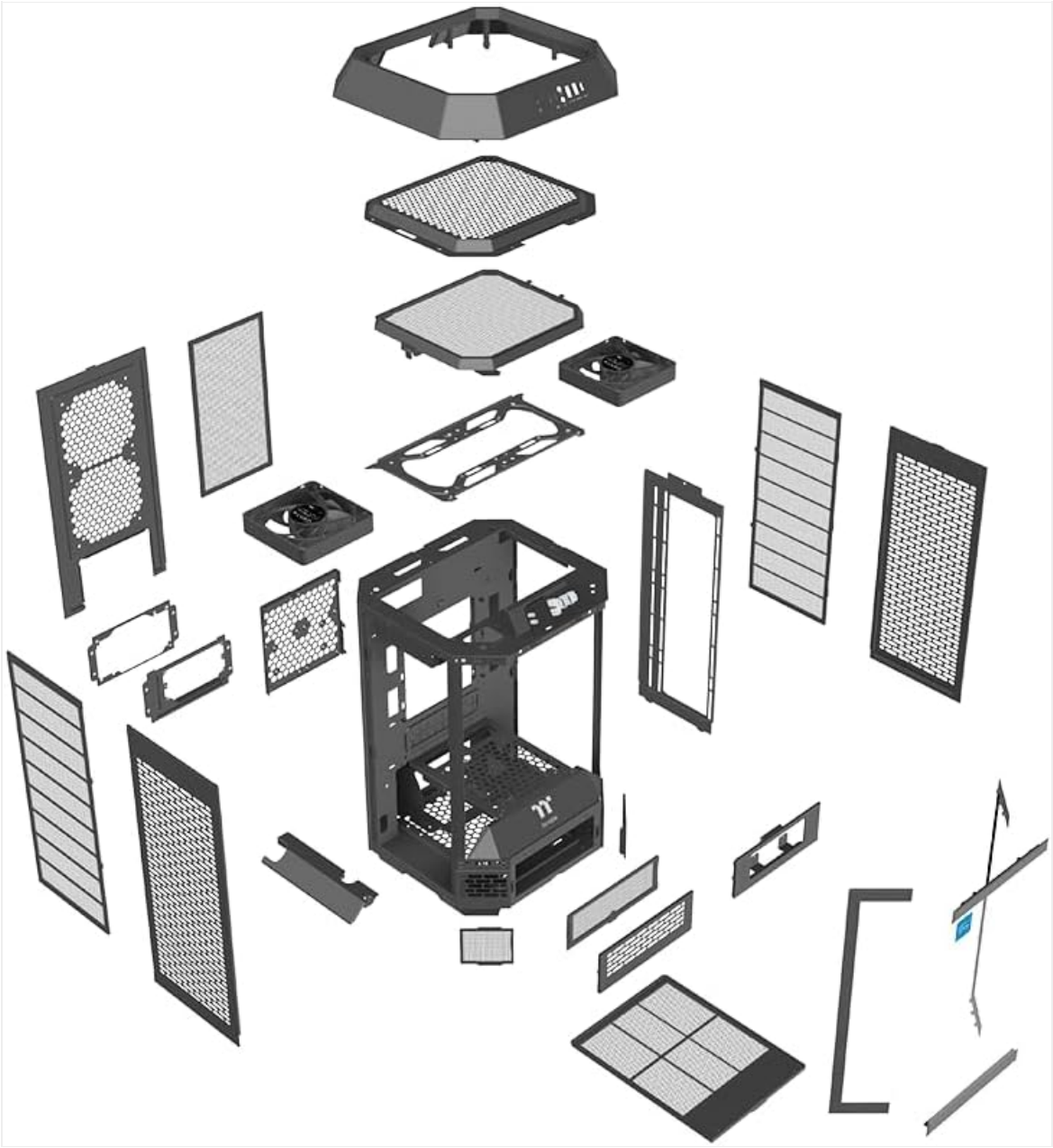


Figure 2.1: Exploded view showing all removable components of the Tower 250 chassis, including panels, fans, and internal structure.

3. Installation Guide

Follow these steps to assemble your PC components within the Thermaltake Tower 250 chassis. Ensure the system is powered off and unplugged before beginning installation.

3.1. Panel Removal

The Tower 250 features a tool-free design for easy access. Gently pull the outer panels to detach them. The tempered glass panels are secured with magnets and push clips. The top lid can be lifted for access to the I/O ports and top fan

mounts.



Figure 3.1: Illustration of the tool-free panel removal process for the Tower 250, highlighting the magnetic and clip mechanisms.

3.2. Motherboard Installation

The Tower 250 supports Mini-ITX motherboards (6.7" x 6.7"). Install the I/O shield into the chassis opening. Secure the motherboard to the standoffs using the provided screws.

3.3. Power Supply Unit (PSU) Installation

The chassis supports both standard ATX and SFX power supplies. An SFX bracket is pre-installed. For SFX PSUs, ensure it is properly mounted to the bracket. Install the PSU into the designated compartment at the bottom of the chassis and secure it with screws.

3.4. Graphics Processing Unit (GPU) Installation

The Tower 250 can accommodate GPUs up to 360mm in length when the power cover is removed, or 245mm with the power cover installed. Install your GPU into the PCIe slot on the motherboard and secure it.

3.5. Storage Device Installation

The chassis supports 1 x 3.5" HDD or 2 x 2.5" SSDs. Mount your storage devices in the designated drive bays using the provided screws.



Figure 3.2: Storage compatibility diagram, illustrating mounting points for 2.5" SSDs and 3.5" HDDs.

3.6. Cooling System Installation (Fans & Radiators)

The Tower 250 comes with two 120mm CT fans pre-installed at the top for exhaust. Additional fan and radiator support is as follows:

- **Top:** 2 x 120mm fans (pre-installed)
- **Right Side:** Up to 3 x 120mm, 2 x 140mm fans, or a 360mm/280mm AIO radiator.
- **Rear:** Up to 2 x 120mm or 2 x 140mm fans.
- **Power Cover:** 1 x 120mm or 1 x 140mm fan.



Figure 3.3: Close-up view of the two pre-installed CT120 PWM fans located at the top of the chassis.

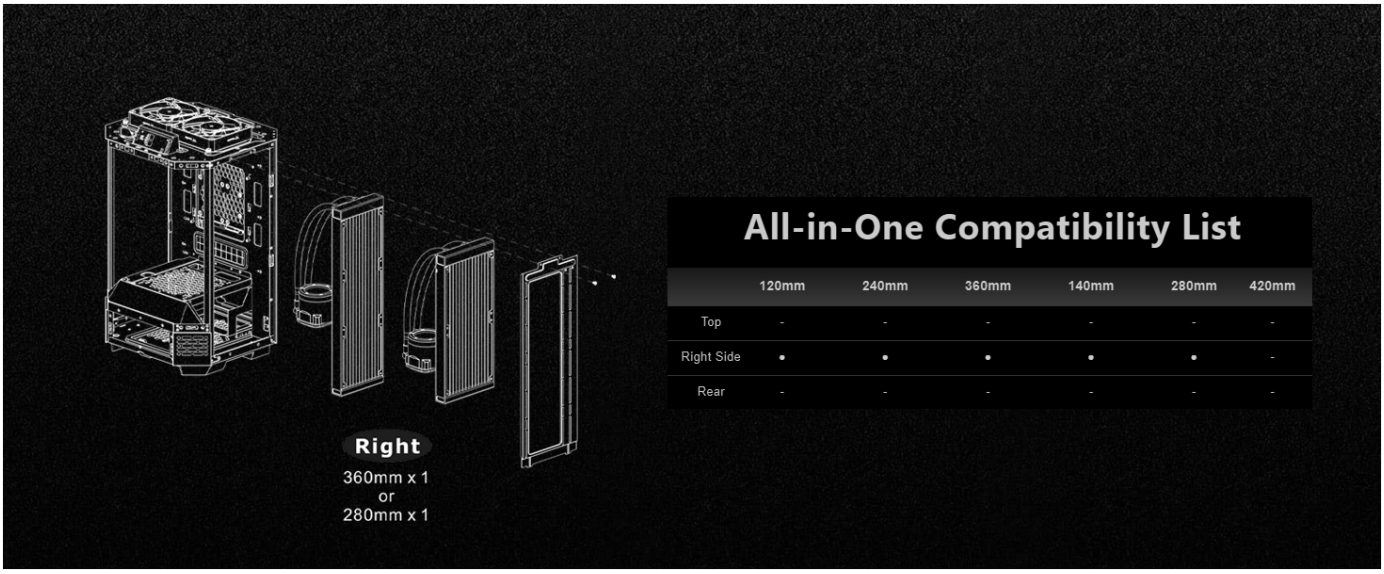


Figure 3.4: Fan compatibility list and diagram indicating various fan mounting locations and sizes supported within the chassis.

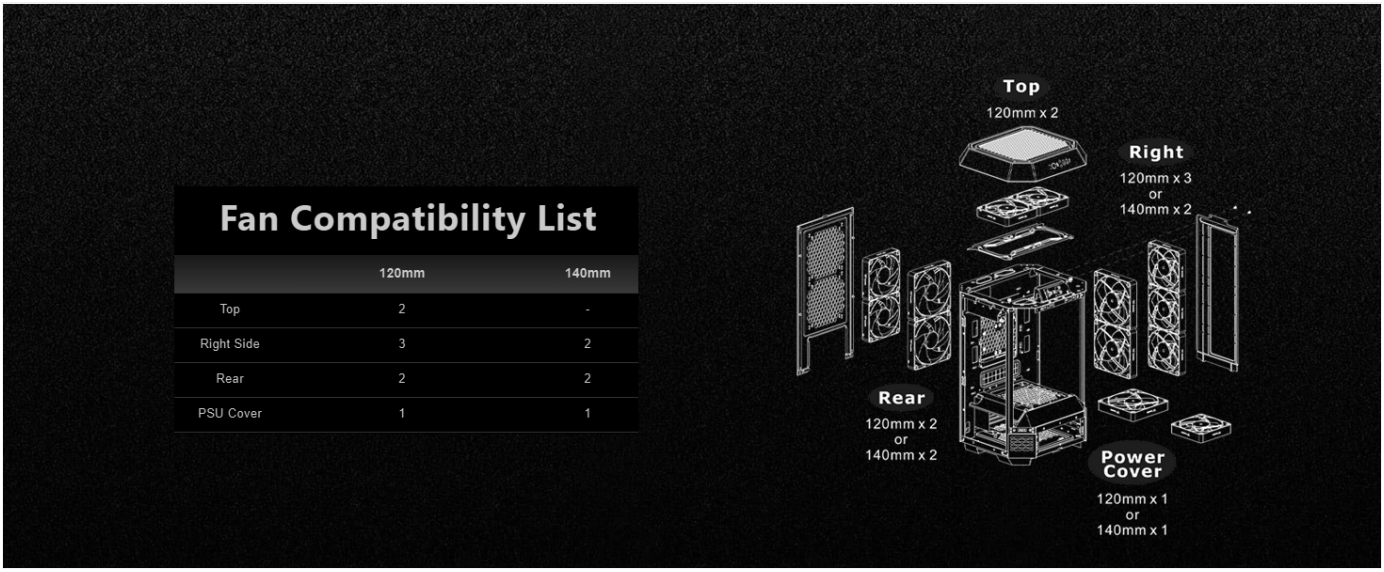


Figure 3.5: All-in-One (AIO) radiator compatibility list and diagram, detailing supported radiator sizes for different mounting positions.

3.7. Cable Management

Utilize the cable routing channels and tie-down points behind the motherboard tray to manage cables effectively. This improves airflow and maintains a clean interior aesthetic.

3.8. Optional Horizontal Placement

The Tower 250 can be placed horizontally with an optional Chassis Stand Kit (sold separately). To install:

1. Unscrew the original feet located on the base of the chassis.
2. Install the new bottom cover of the chassis and carefully place the Tower 250 on the stand.



Figure 3.6: The Tower 250 chassis displayed in its optional horizontal orientation on a desk setup.

4. Operation

Once all components are installed and secured, connect your peripherals and power cable. Press the power button located on the top panel to start your system.

4.1. Front I/O Ports

The top panel provides convenient access to essential ports:

- 1 x USB 3.2 (Gen 2) Type-C port
- 2 x USB 3.0 ports
- 1 x HD Audio jack
- Power Button
- Reset Button

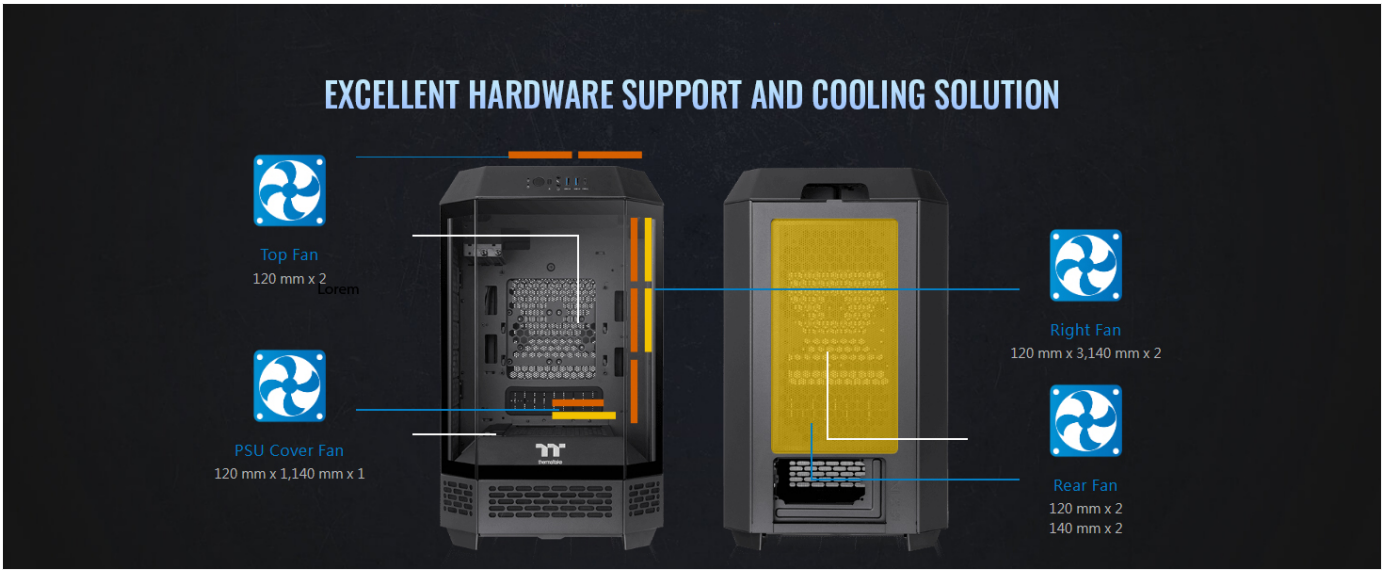


Figure 4.1: Detailed view of the accessible I/O ports and buttons located on the top panel of the chassis.

5. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your PC components.

5.1. Dust Filter Cleaning

The Tower 250 is equipped with removable dust filters on the top, rear, inner sides, and inner bottom layer. These filters prevent dust accumulation inside the chassis. Periodically remove and clean them with compressed air or by rinsing with water (ensure they are completely dry before re-installation).



Figure 5.1: Illustration highlighting the various locations of the removable dust filters for easy cleaning.

5.2. General Cleaning

Use a soft, dry cloth to wipe down the exterior surfaces. For tempered glass panels, a mild glass cleaner can be used. Avoid abrasive cleaners or solvents.

6. Troubleshooting

If you encounter issues, refer to the following common troubleshooting steps:

- **System Not Powering On:**
  - Ensure all power cables (PSU to wall, PSU to components) are securely connected.
  - Verify front panel connectors (power switch, reset switch) are correctly attached to the motherboard.
  - Check if the PSU switch is in the "ON" position.
- **Overheating Components:**
  - Confirm all case fans and CPU/GPU coolers are spinning correctly.
  - Clean dust filters and internal components to improve airflow.
  - Ensure proper fan orientation for optimal intake and exhaust.



Figure 6.1: Diagram illustrating the designed air intake and exhaust paths within the Tower 250 chassis for effective cooling.

- **Component Not Fitting:**
  - Refer to the specifications section for maximum component dimensions (GPU length, CPU cooler height, PSU length).
  - Ensure the power cover is removed if installing a longer GPU.

For further assistance, consult your component manuals or contact Thermaltake support.

7. Technical Specifications

Feature	Specification
Model	The Tower 250 Black
P/N	CA-1Z9-00S1WN-00
Case Type	Mini Tower
Dimensions (H x W x D)	506 x 300 x 281 mm (19.9 x 11.8 x 11.5 inch)
Weight	7.1 kg / 15.65 lbs.
Side Panel	3mm Tempered Glass x 3
Color	Black
Material	SPCC, Tempered Glass
Cooling System (Top)	2 x 120mm CT120 fan (2000rpm, 25.8 dBA)
Drive Bays	1 x 3.5", or 2 x 2.5"
Expansion Slots	3
Motherboard Compatibility	Mini ITX (6.7" x 6.7")
I/O Port	USB 3.2 (Gen 2) Type-C x 1, USB 3.0 x 2, HD Audio x 1
PSU Support	Standard SFX or ATX PSU (optional)
CPU Cooler Height Limitation	210mm
VGA Length Limitation	245mm (With power cover), 360mm (Without power cover)
PSU Length Limitation	200mm

8. Warranty and Support

The Thermaltake Tower 250 chassis comes with a**3-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

8.1. Warranty Exclusions

The warranty does not cover:

- Damage caused by accident, abuse, misuse, flood, fire, earthquake, or other external causes.
- Damage caused by operating the product outside the permitted or intended uses described by Thermaltake.
- Damage caused by service performed by anyone who is not a representative of Thermaltake or a Thermaltake Authorized Service Provider.
- Products or parts that have been modified to alter functionality or capability without the written permission of Thermaltake.
- Consumable parts, such as batteries, unless damage occurred due to a defect in materials or workmanship.

8.2. Customer Support

For technical support, warranty claims, or further inquiries, please visit the official Thermaltake website or contact their customer service department. Keep your proof of purchase for warranty validation.
Thermaltake Official Website: www.thermaltake.com

9. Product Videos

No official product videos from the seller were found in the provided data for this manual.

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