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› Thermaltake Tower 600 Black Mid-Tower ATX Case Instruction Manual

## Thermaltake CA-1Z1-00M1WN-00

# Thermaltake Tower 600 Black Mid-Tower ATX Case Instruction Manual

Model: CA-1Z1-00M1WN-00

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Thermaltake Tower 600 Black Mid-Tower ATX Case. Please read this manual thoroughly before beginning assembly to ensure proper setup and optimal performance.



Figure 1.1: Thermaltake Tower 600 Black Mid-Tower ATX Case with internal components.

## 2. KEY FEATURES

- **Distinctive Octagonal Design:** Features a unique octagonal shape with three tempered glass panels for aesthetic appeal and easy access.
- **Tool-Free Panel Access:** Three tempered glass panels and two perforated side panels can be removed without tools for convenient installation and maintenance.
- **Hidden-Connector Motherboard Support:** Compatible with ASUS BTF, MSI PROJECT ZERO, and GIGABYTE PROJECT STEALTH motherboards for a clean, cable-free build aesthetic.
- **Superior Cooling Support:** Accommodates up to nine fans and radiators up to 420mm for efficient thermal management.
- **Three-Way VGA Installations:** Offers flexible GPU mounting options with rotational PCIe slots and a floating VGA bracket.
- **Optional Horizontal Display Stand:** An optional kit (sold separately) allows for horizontal case orientation.
- **Dismantlable Modular Design (DMD):** Facilitates easy installation and component access with a fully modular structure.



### TOOL FREE PANELS FOR EASY ACCESS

The Tower 600 features three 3mm tempered glass panels on the front and two perforated panels on each side. All are easily removable without tools.

Figure 2.1: Tool-free panel access for easy installation and maintenance.

## 3. SPECIFICATIONS

Category	Specification
Model Number	CA-1Z1-00M1WN-00
Series	The Tower
Case Type	Mid Tower
Dimensions (H x W x D)	550 x 420 x 286.4 mm (21.65 x 16.54 x 11.28 inch)
Weight	9.70 kg / 21.39 lbs.
Side Panel	3mm Tempered Glass x 3
Color	Black
Material	SPCC, Tempered Glass

Drive Bays	1 x 3.5", 2 x 2.5" or 3 x 2.5"
Expansion Slots	7
Motherboard Compatibility	Mini ITX (6.7" x 6.7"), Micro ATX (9.6" x 9.6"), ATX (12" x 9.6")
I/O Port	USB 3.2 (Gen 2) Type-C x 1, USB 3.0 x 4, HD Audio x 1
PSU Compatibility	Standard PS2 PSU (optional), Max length: 220mm
CPU Cooler Height Limitation	210mm
VGA Length Limitation	280mm (With power cover), 400mm (Without power cover)

## Fan Support

Location	120mm Fans	140mm Fans
Top	3	2
Right Side	3	3
Left Side	3	-
Rear	2	2
Power Cover	1	1
Bottom	1	1

## Radiator Support

Location	Radiator Sizes (AIO)
Right Side	1 x 360mm, 1 x 240mm, 1 x 120mm; 1 x 420mm, 1 x 280mm, 1 x 140mm
Left Side	1 x 360mm, 1 x 240mm, 1 x 120mm

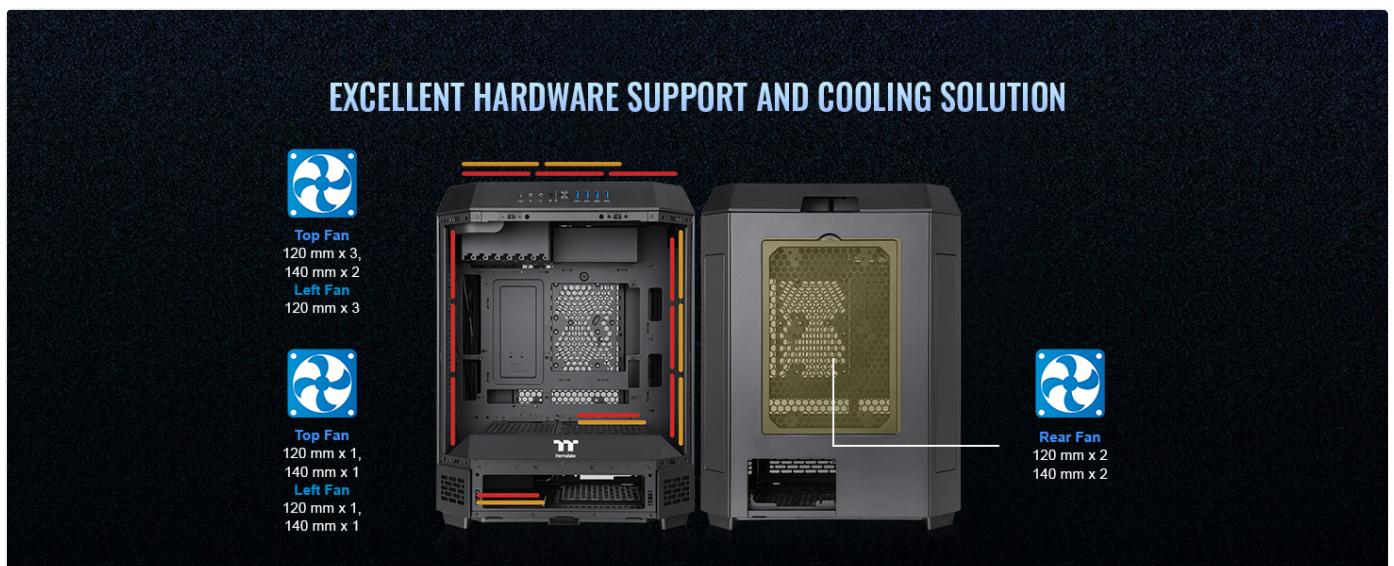


Figure 3.1: Fan support configurations.

## EXCELLENT HARDWARE SUPPORT AND COOLING SOLUTION

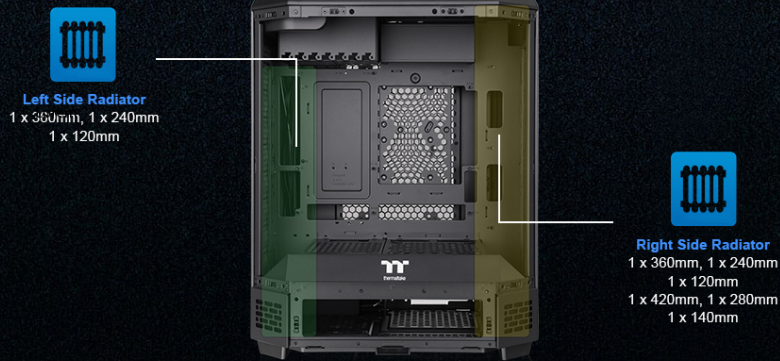


Figure 3.2: Radiator support configurations.

## 4. SETUP AND INSTALLATION

The Thermaltake Tower 600 features a modular design for simplified assembly. Follow these steps for component installation.

### 4.1. Accessing the Interior

The case features tool-free removal of its three tempered glass panels and two perforated side panels. Gently pull the panels to detach them, providing full access to the interior for component installation.



Figure 4.1: Detail of tool-free panel removal mechanism.

## 4.2. Motherboard Installation

The Tower 600 supports Mini ITX, Micro ATX, and ATX motherboards. It is also designed to accommodate hidden-connector motherboards (ASUS BTF, MSI PROJECT ZERO, GIGABYTE PROJECT STEALTH series) for enhanced cable management.

1. Place the motherboard onto the standoffs in the motherboard tray.
2. Secure the motherboard with the provided screws.

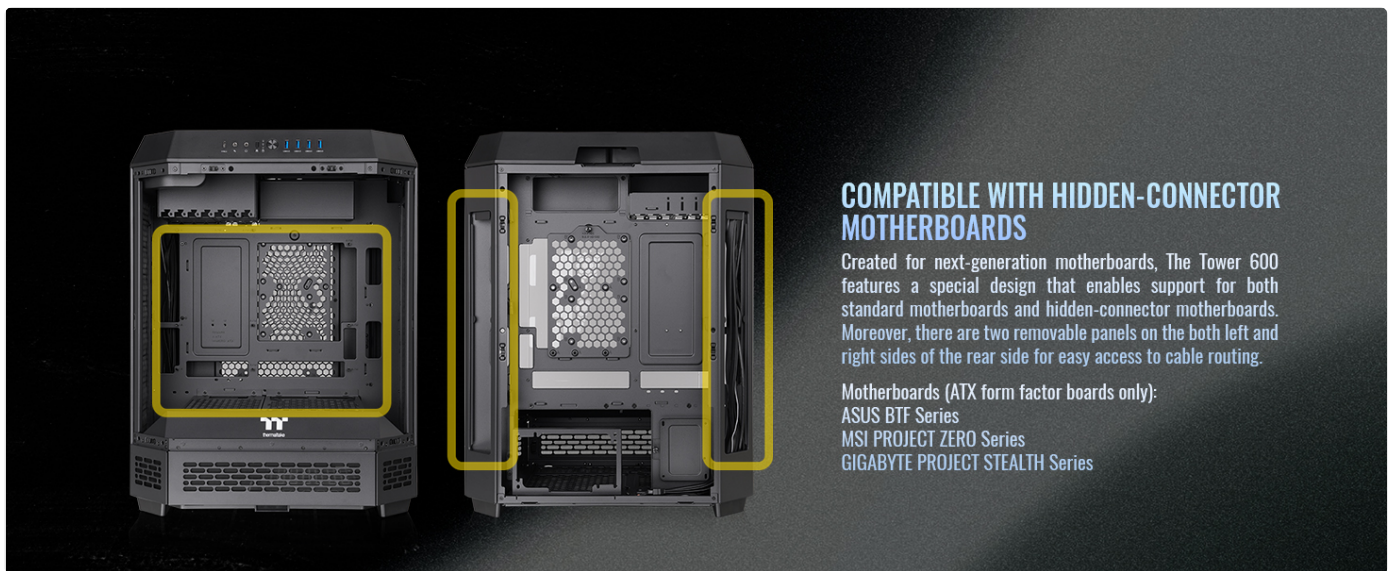


Figure 4.2: Motherboard mounting area and hidden-connector support.

### 4.3. Graphics Card (VGA) Installation

The case offers flexible GPU installation with rotational PCIe slots. You can mount your graphics card horizontally or vertically using an optional riser cable and floating VGA bracket (sold separately).

1. Determine your preferred GPU orientation.
2. For horizontal mounting, remove the necessary PCIe slot covers and secure the GPU directly to the motherboard.
3. For vertical mounting, install the optional riser cable and floating VGA bracket, then secure the GPU.



Figure 4.3: Graphics card installation options.

### 4.4. Storage Device Installation

The Tower 600 supports one 3.5" hard drive or up to three 2.5" solid-state drives/hard drives.

1. Locate the drive bays behind the motherboard tray or at the bottom of the case.
2. Mount your 3.5" or 2.5" drives using the provided screws and brackets.



Figure 4.4: Storage drive bay locations.

### 4.5. Cooling System Installation (Fans & Radiators)

Install fans and radiators according to the compatibility listed in the specifications section. The case includes two pre-installed 140mm CT140 fans at the top.

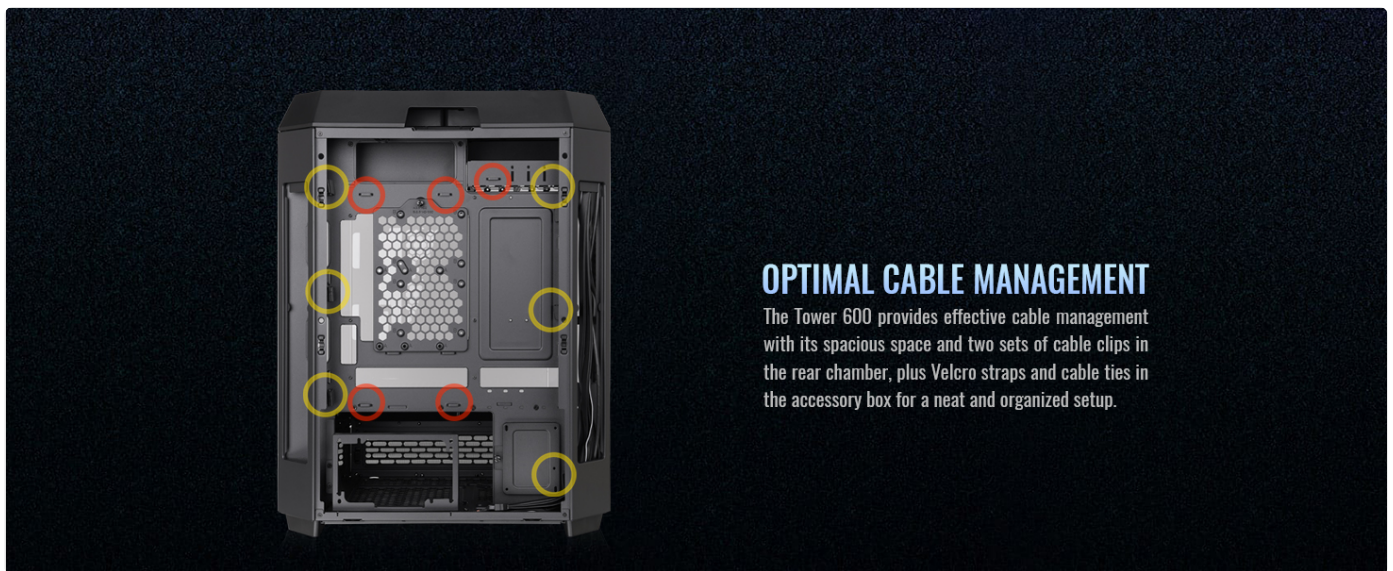
1. Identify desired fan/radiator mounting locations (Top, Right Side, Left Side, Rear, Power Cover, Bottom).
2. Utilize the removable fan brackets for easier installation.
3. Secure fans and radiators with appropriate screws.



Figure 4.5: Easy fan installation with removable brackets.

### 4.6. Cable Management

The Tower 600 provides ample space in the rear chamber for cable routing. Utilize the two sets of cable clips, Velcro straps, and cable ties (included in the accessory box) to organize cables for optimal airflow and aesthetics.



## OPTIMAL CABLE MANAGEMENT

The Tower 600 provides effective cable management with its spacious space and two sets of cable clips in the rear chamber, plus Velcro straps and cable ties in the accessory box for a neat and organized setup.

Figure 4.6: Cable management features.

## 5. OPERATION

After all components are installed and secured, and cables are connected, you can begin operating your system.

### 5.1. Front I/O Ports

The top-located I/O panel provides convenient access to essential ports and controls:

- **Power Button:** With integrated Power LED (White).
- **USB 3.0 Type-A:** x 4 ports for high-speed data transfer.
- **USB 3.2 Gen 2 Type-C:** x 1 port for faster data transfer and reversible connection.
- **HD Audio:** x 1 (headphone and microphone jacks).
- **HDD LED:** (Red) indicates hard drive activity.



## HANDY I/O PORTS

Top-located I/O ports consist of following functions:

- Power Button with Integrated Power LED (White)
- HDD LED (Red)
- USB 3.0 Type-A x 4
- USB 3.2 Gen 2 Type-C x 1
- HD Audio

Figure 5.1: Top I/O Ports.

## 6. MAINTENANCE

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

## 6.1. Dust Filter Cleaning

The Tower 600 is equipped with well-designed filters on the top, rear, inner sides, and inner bottom layer to protect your system from dust accumulation. Regularly clean these filters to maintain optimal airflow.

1. Locate all dust filters.
2. Gently remove the filters.
3. Clean the filters using compressed air or by rinsing them with water (ensure they are completely dry before reinstallation).
4. Reinstall the cleaned filters.



Figure 6.1: Dust filter locations.

## 6.2. General Cleaning

Use a soft, damp cloth to wipe down the exterior surfaces of the case. Avoid abrasive cleaners or solvents that may damage the finish or tempered glass panels.

## 7. TROUBLESHOOTING

This section addresses common issues that may arise during or after the assembly of your PC within the Tower 600 case.

### • System Not Powering On:

- Ensure the power supply unit (PSU) is switched on and properly connected to the wall outlet.
- Verify all power cables (24-pin ATX, CPU, GPU, storage) are securely connected to the motherboard and components.
- Check that the front panel power switch cable is correctly connected to the motherboard's front panel header.

### • No Display Output:

- Confirm that your monitor cable is connected to the graphics card (GPU) output, not the motherboard's integrated graphics port (unless using integrated graphics).
- Reseat the graphics card in its PCIe slot.
- Ensure the GPU's power cables are fully connected.

### • Overheating Components:

- Verify all case fans are spinning and oriented correctly for optimal airflow (intake/exhaust).

- Ensure CPU cooler and GPU fans are functioning.
- Clean dust filters regularly to prevent airflow restriction.

- **Loose Panels:**

- Ensure all tempered glass and perforated panels are securely latched into place.

## 8. WARRANTY AND SUPPORT

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The Thermaltake Tower 600 Black Mid-Tower ATX Case comes with a **3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please visit the official Thermaltake website or contact their customer service department. Keep your proof of purchase for warranty validation.

Official Thermaltake Website: [www.thermaltake.com](http://www.thermaltake.com)