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› Thermaltake Tower 600 Mid-Tower ATX Case User Manual

Thermaltake CA-1Z1-00MEWN-00

Thermaltake Tower 600 Mid-Tower ATX Case User Manual

Model: CA-1Z1-00MEWN-00

1. INTRODUCTION

The Thermaltake Tower 600 is a Mid-Tower ATX case featuring a distinctive octagonal design and vertical interior layout. It is engineered to support modern PC components, including hidden-connector motherboards, and offers extensive cooling capabilities. This manual provides essential information for the proper installation, operation, and maintenance of your Tower 600 chassis.



Image 1.1: Front view of the Thermaltake Tower 600 Matcha Green chassis with internal components.



Image 1.2: Overview of the Tower 600's octagonal design.

2. SAFETY INFORMATION

- Always disconnect the power supply before installing or servicing any components inside the chassis.
- Handle tempered glass panels with care to prevent breakage.
- Keep small parts and accessories out of reach of children.
- Ensure proper grounding to prevent electrical hazards.
- Refer to your component manuals for specific installation instructions and safety warnings.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Thermaltake Tower 600 Mid-Tower ATX Case
- 2 x 140mm CT140 Fans (pre-installed)
- Accessory Box (containing screws, standoffs, cable ties, etc.)
- User Manual (this document)

4. SETUP AND INSTALLATION

4.1. Accessing the Interior (Tool-Free Panels)

The Tower 600 features tool-free access to its interior. The three tempered glass panels and two perforated side panels can be easily removed for installation and maintenance.



Image 4.1: Top panel removed for access.



Image 4.2: Tool-free panel access.

4.2. Motherboard Installation

The chassis supports Mini ITX, Micro ATX, and ATX motherboards. It is also compatible with hidden-connector motherboards such as ASUS BTF, MSI PROJECT ZERO, and GIGABYTE PROJECT STEALTH series, allowing for a cleaner, cable-free build aesthetic.

COMPATIBLE WITH HIDDEN-CONNECTOR MOTHERBOARDS

Created for next-generation motherboards, The Tower 600 features a special design that enables support for both standard motherboards and hidden-connector motherboards. Moreover, there are two removable panels on the both left and right sides of the rear side for easy access to cable routing.

Motherboards (ATX form factor boards only):
ASUS BTF Series
MSI PROJECT ZERO Series
GIGABYTE PROJECT STEALTH Series



Image 4.3: Hidden-connector motherboard compatibility.

4.3. Graphics Card (VGA) Installation

The Tower 600 features rotational PCI-e slots and a floating VGA bracket, enabling flexible graphics card installation in various orientations. A riser cable (sold separately) may be required for certain vertical mounting configurations.

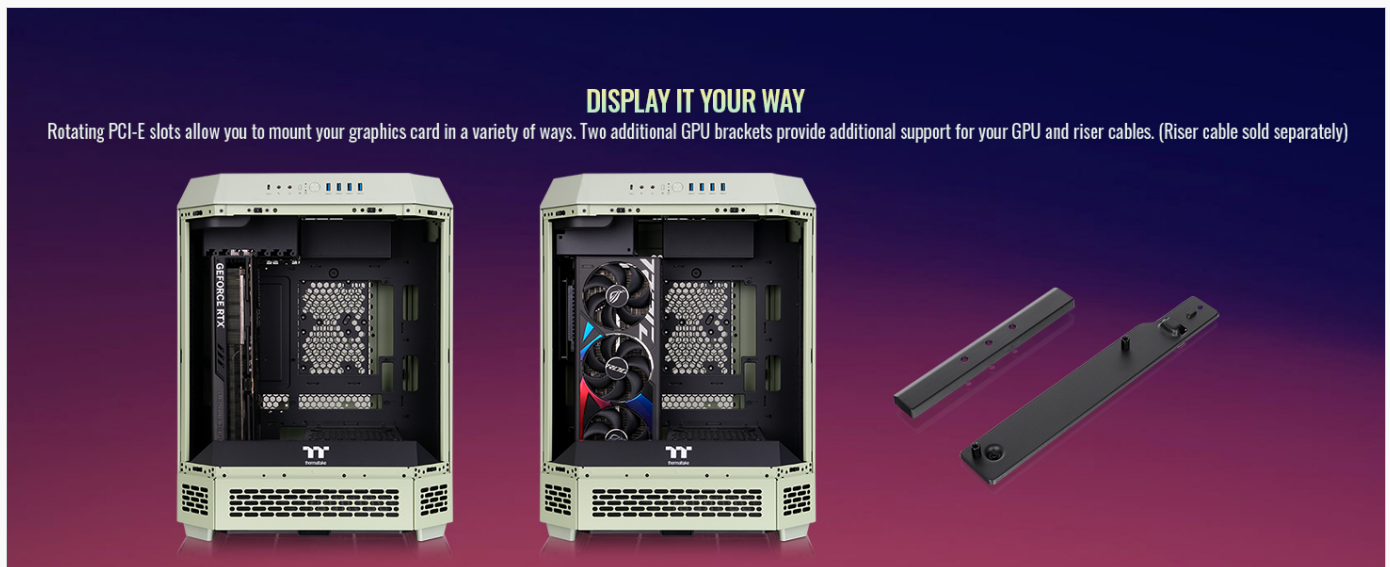
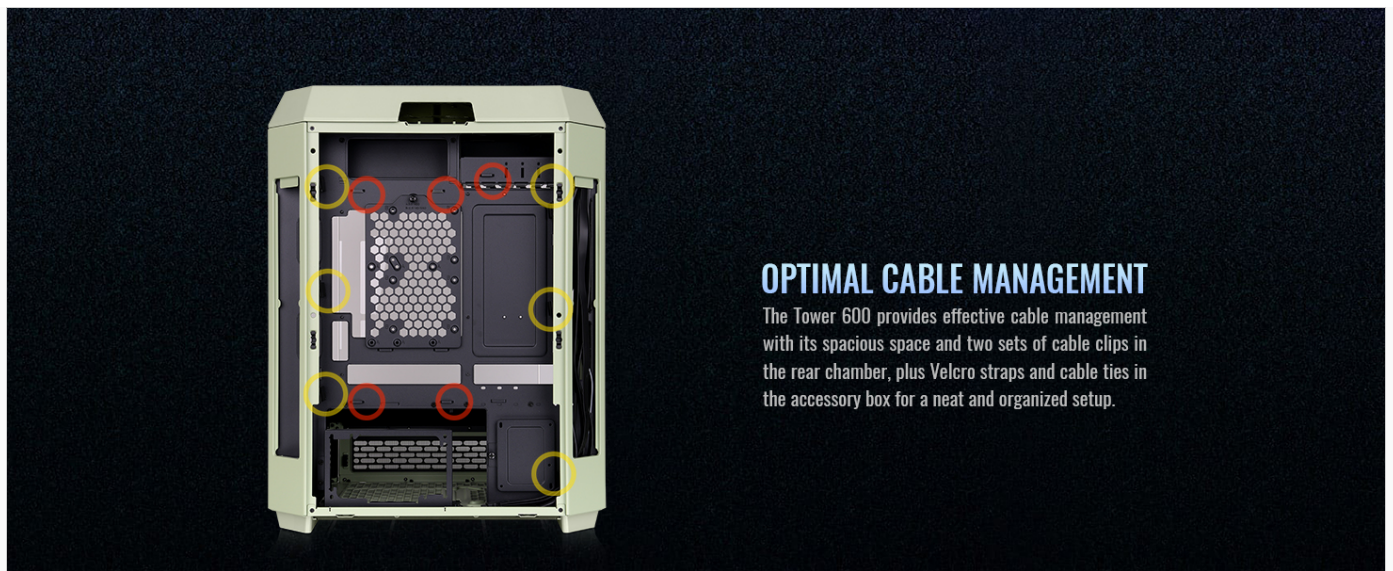


Image 4.4: Flexible VGA installation options.

4.4. Storage Device Installation

The chassis supports one 3.5" hard drive or up to three 2.5" solid-state drives. Utilize the designated mounting points for secure installation.



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.

Image 4.5: Storage drive mounting options.

4.5. Cable Management

The Tower 600 provides ample space in the rear chamber for effective cable management. Utilize the included Velcro straps and cable clips to organize cables for a clean and optimized build.



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

Image 4.6: Cable management features.

4.6. I/O Ports

The top-located I/O panel includes:

- 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 (Headphone and Microphone jacks)

INTAKE AND EXHAUST

Featuring a vertical chassis design, The Tower 600 still has well-designed cold air intakes and hot air exhausts to keep the internal temperature low at all times.



Image 4.7: Top I/O ports.

4.7. Optional Horizontal Display Stand

An optional Horizontal Chassis Stand Kit (sold separately) allows the Tower 600 to be displayed horizontally. This kit includes a replacement bottom cover for a clean aesthetic.

1. Unscrew the original feet located on the base of the chassis.
2. Install the new bottom cover from the stand kit onto the chassis.
3. Carefully place the Tower 600 onto the stand.

A UNIQUE VIEW

Our optional Horizontal Chassis Stand Kit comes not only with the stand itself but also included is a replacement bottom cover to delete the feet and provide a clean look.

How 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 600 on the stand



Image 4.8: Chassis with optional horizontal stand.

5. OPERATION AND COOLING

5.1. Cooling System

The Tower 600 features a vertical chassis design with optimized cold air intakes and hot air exhausts to maintain low internal temperatures. It supports extensive fan and radiator configurations.

- **Radiator Support:** Up to a 420mm radiator on the right side and a 360mm radiator on the left side.
- **Fan Support:** Accommodates up to thirteen 120mm fans or nine 140mm fans across various mounting locations.

Note: When installing fans on the left side with a full ATX motherboard, consider using thin (15mm) 120mm fans to avoid interference with motherboard connections. A radiator on the left side may not fit with an ATX motherboard.



Image 5.1: Airflow design for intake and exhaust.



Image 5.2: Radiator compatibility.

5.2. Optional LCD Display

The Tower 600 can be upgraded with an optional 3.9" LCD Screen Kit (sold separately). This display, managed via TT RGB Plus Software, shows real-time information, GIFs, and weather data, offering customizable visual aesthetics.

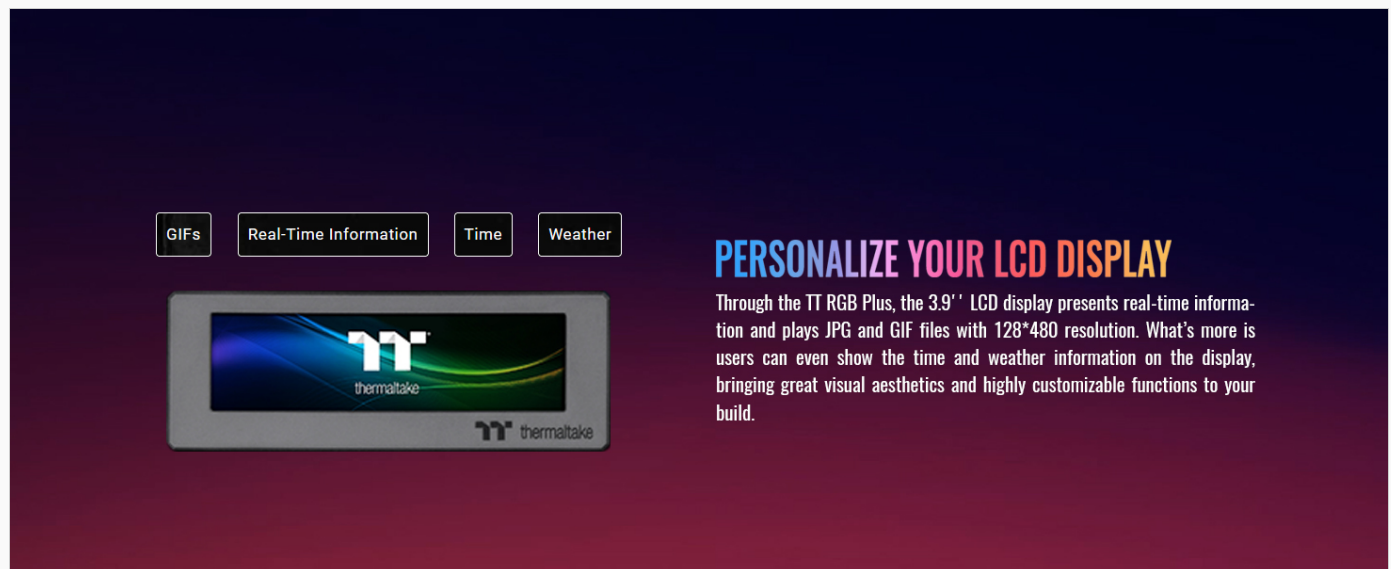


Image 5.3: Personalizing the optional LCD display.

6. MAINTENANCE

6.1. Dust Protection and 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. These filters are easily removable for cleaning.

- Regularly remove and clean the dust filters to maintain optimal airflow and cooling performance.

- Use a soft, dry cloth to clean the exterior surfaces and tempered glass panels. Avoid abrasive cleaners.



Image 6.1: Dust filter locations.

6.2. Dismantlable Modular Design (DMD)

The chassis features a Dismantlable Modular Design, allowing for easy disassembly of various components. This simplifies installation, cleaning, and modification, making otherwise unreachable screw corners or gaps accessible.

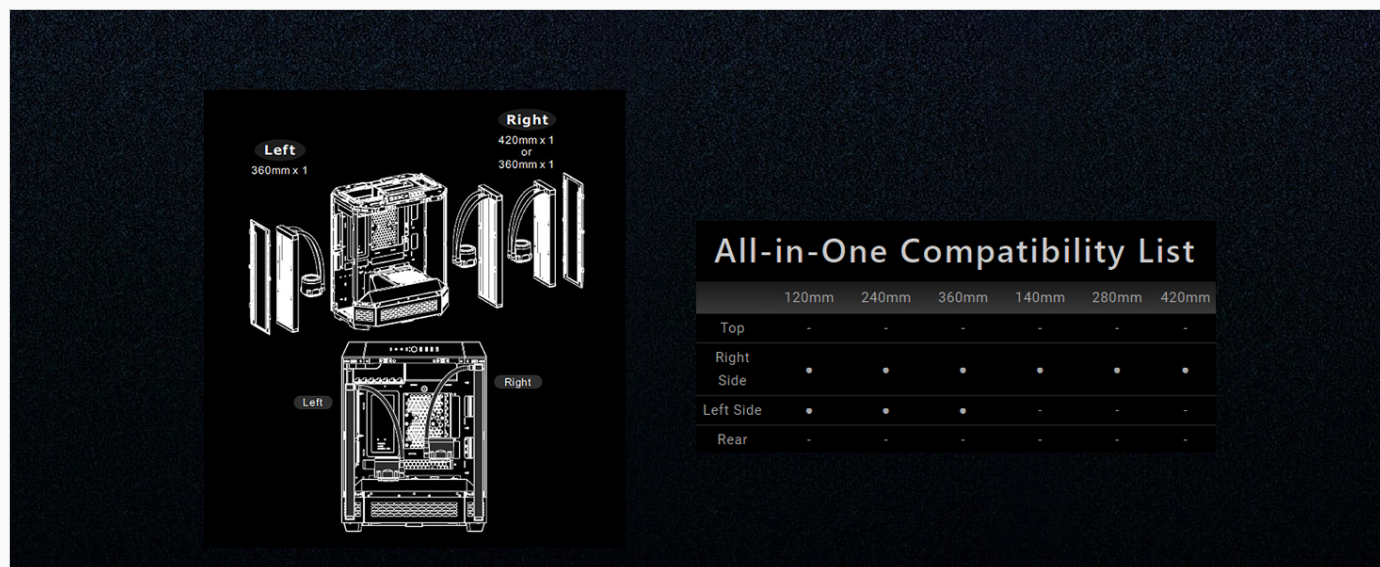


Image 6.2: Dismantlable Modular Design.

7. SPECIFICATIONS

Feature	Specification
P/N	CA-1Z1-00MEWN-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)

Feature	Specification
Weight	9.70 kg / 21.39 lbs
Side Panel	3mm Tempered Glass x 3
Color	Matcha Green
Material	SPCC
Cooling System (Top Exhaust)	2 x 140mm CT140 fan (1500rpm, 30.5 dBA)
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 Support	Standard PS2 PSU (optional)
CPU Cooler Height Limitation	210mm
VGA Length Limitation	280mm (With power cover), 400mm (Without power cover)
PSU Length Limitation	220mm

7.1. Fan Support

- **Top:** 3 x 120mm, 2 x 120mm, 1 x 120mm; 2 x 140mm, 1 x 140mm
- **Right:** 3 x 120mm, 2 x 120mm, 1 x 120mm; 3 x 140mm, 2 x 140mm, 1 x 140mm
- **Left:** 3 x 120mm, 2 x 120mm, 1 x 120mm
- **Rear:** 2 x 120mm, 1 x 120mm; 2 x 140mm, 1 x 140mm
- **Power Cover:** 1 x 120mm, 1 x 140mm
- **Bottom:** 1 x 120mm, 1 x 140mm



Image 7.1: Fan support configurations.

7.2. Radiator Support

- **Right Side (AIO):** 1 x 360mm, 1 x 240mm, 1 x 120mm; 1 x 420mm, 1 x 280mm, 1 x 140mm
- **Left Side (AIO):** 1 x 360mm, 1 x 240mm, 1 x 120mm



Image 7.2: Radiator support configurations.

8. WARRANTY AND SUPPORT

The Thermaltake Tower 600 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, troubleshooting assistance, or warranty claims, please visit the official Thermaltake website or contact their customer service department. Keep your proof of purchase for warranty validation.

For additional resources and product information, please visit the [Thermaltake Store on Amazon](#).

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question