Thermaltake CA-1G4-00M6WN-09

Thermaltake Core P3 Pro Snow E-ATX Tempered Glass Mid Tower Gaming Computer Chassis User Manual

Model: CA-1G4-00M6WN-09

1. Introduction

The Thermaltake Core P3 Pro Snow E-ATX Tempered Glass Mid Tower Gaming Computer Chassis is an advanced open-frame chassis designed for enthusiasts and builders seeking extensive customization and superior cooling performance. This manual provides detailed instructions for assembly, operation, maintenance, and troubleshooting to ensure optimal use of your Core P3 Pro chassis.

Figure 1.1: Thermaltake Core P3 Pro Snow Chassis

This image displays the Thermaltake Core P3 Pro Snow chassis from an angled front view, highlighting its open-frame design and the large tempered glass side panel. The white frame and silver support pillars are visible, showcasing its aesthetic appeal and structural elements.

2. Product Features

The Core P3 Pro Snow chassis incorporates several key features designed to enhance your PC building experience:

- **Open Frame Panoramic Viewing:** Offers an unobstructed view of your internal components, ideal for showcasing custom builds.

- **4mm Tempered Glass Panel:** A durable and clear side panel provides excellent visibility and protection.
- **Three-Way Placement Layout:** Supports wall-mount, vertical, and horizontal orientations for versatile setup options.
- **Rotatable PCI-E Slots:** Allows for vertical or horizontal GPU mounting, providing flexibility for graphics card display and cooling.
- **Cooling Mounting Bracket:** An additional bracket specifically designed for AIO coolers and case fans, improving airflow and cooling solutions.
- **Recessed Motherboard Tray:** Provides ample space for cable management and accommodates large components, including long VGA cards.
- **Strong Steady Feet:** Integrated feet design ensures stability for heavy system configurations.
- **Handy I/O Ports:** Features USB 3.2 (Gen 2) Type-C x 1, USB 3.0 x 2, and HD Audio x 1 for convenient connectivity.
- **Dismantlable Modular Design (DMD):** Enables complete disassembly for easy installation and customization.

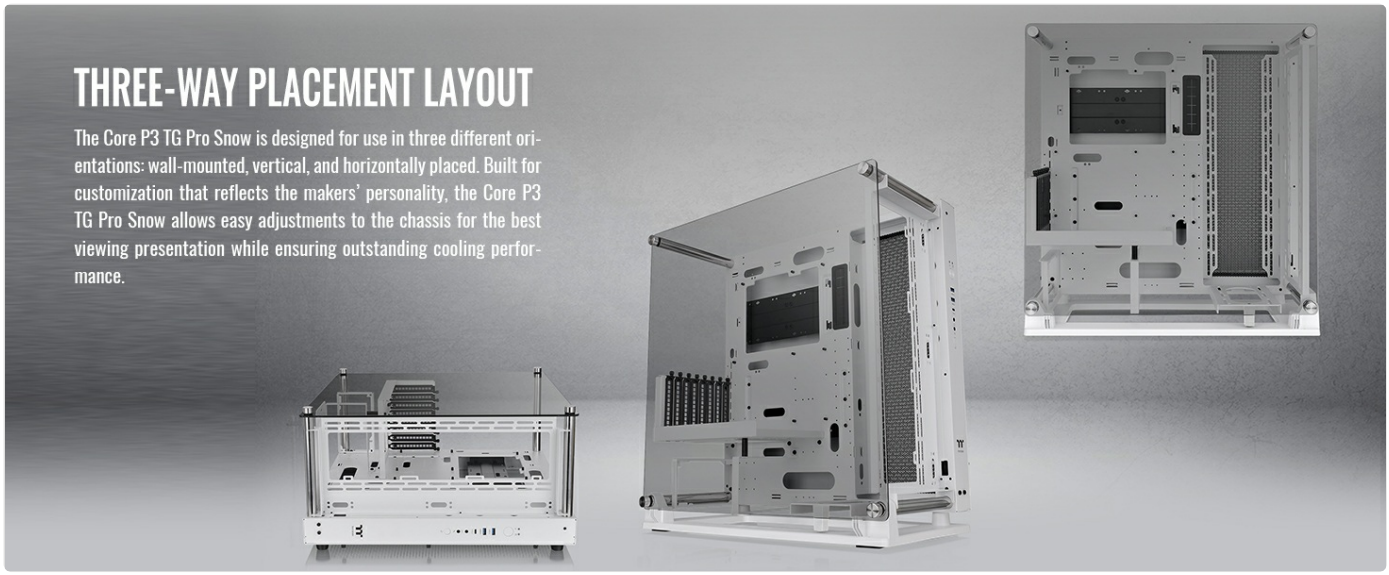

Figure 2.1: Three-Way Placement Layout

This image illustrates the three possible orientations for the Core P3 Pro Snow chassis: wall-mounted, vertical, and horizontal. This highlights the chassis's adaptability to various desk setups and room configurations.

3. Setup and Installation

Follow these steps for assembling and installing components into your Thermaltake Core P3 Pro Snow chassis. It is recommended to watch the official installation video for visual guidance.

3.1. Chassis Assembly

1. **Unpack Components:** Carefully unpack all chassis components and hardware. Identify the main chassis frame, base, four case posts, and various brackets.
2. **Attach Base and Posts:** Secure the base to the main chassis frame. Install the four case posts into their designated positions on the base. Ensure all connections are firm.
3. **Install Power Supply (PSU):** The Core P3 Pro offers two mounting positions for your power supply. Select the appropriate bracket(s) from the three included and secure your PSU. The chassis supports power units up to 200mm in length.

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Video 3.1: Thermaltake Core P3 Pro Overview and Assembly

This video provides a comprehensive overview of the Thermaltake Core P3 Pro chassis, demonstrating its key features and guiding users through the assembly process. It highlights the modular design, component installation, and various configuration options, including the unique wall-mount capability. The video showcases the ease of building a high-performance system within this open-frame design.

(Refer to video timestamp 0:30 for chassis components and 0:43 for base and post installation. Refer to video timestamp 0:53 for PSU installation.)

3.2. Motherboard and CPU Installation

1. **Install Motherboard Standoffs:** Use a 5mm driver to install the standoffs for your motherboard. For ATX motherboards, install on the 'A' positions. For E-ATX motherboards, utilize the additional pass-through ports located on the inner side of the chassis.
2. **Install CPU:** Carefully place your CPU into the motherboard socket.
3. **Install RAM:** Insert your DDR5 memory modules into the motherboard's RAM slots.
4. **Mount AIO Cooler/Pump:** Apply thermal paste to the CPU. Mount the AIO pump with the included hardware to support LGA 1700 sockets.
5. **Install Radiator:** The Core P3 Pro supports radiators up to 420mm. Thanks to the recessed mounting, you have plenty of options to adjust your radiator. Secure the radiator to the designated mounting points.

(Refer to video timestamp 1:40 for motherboard standoff installation, 1:50 for CPU and RAM installation, and 1:58 for AIO cooler/radiator installation.)

3.3. Graphics Card Installation

1. **Install GPU Vertical Bracket:** When going vertical with your graphics card, test fit the riser cable mounting to accommodate for both GPU width and cooling clearance. The bracket offers multiple locations for adjustment to support quad-slot cards and more.
2. **Connect Riser Cable:** Secure the riser cable (sold separately) to the motherboard and the GPU vertical bracket.
3. **Install Graphics Card:** Carefully insert your graphics card into the vertical bracket. Ensure it is securely seated.
4. **Connect Power Cables:** Connect the necessary PCIe power cables, including new Gen 5 cables if applicable, from your PSU to the graphics card.

(Refer to video timestamp 2:43 for GPU vertical bracket and riser cable installation.)

3.4. Storage Installation

The Core P3 Pro Snow offers flexible storage options:

- Supports 2 x 3.5” or 3 x 2.5” drives.
- With an HDD bracket, it supports 4 x 3.5” or 5 x 2.5” drives.
- Utilize the ample space behind the motherboard tray for cable management and drive mounting.

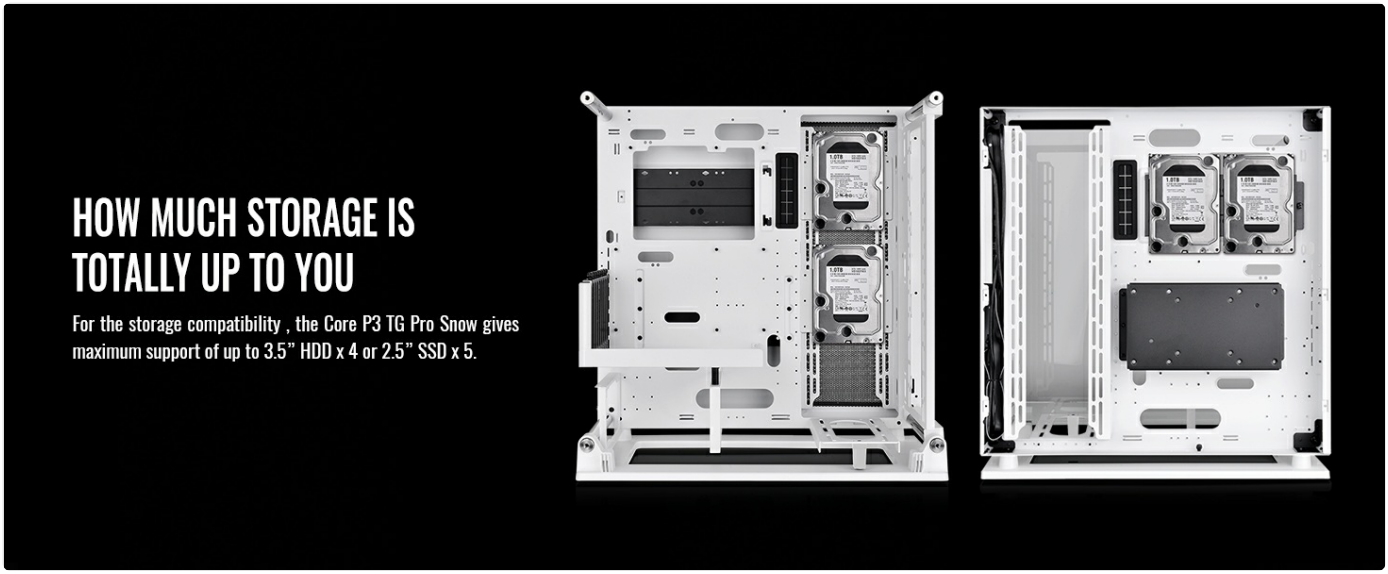


Figure 3.1: Storage Mounting Options

This image provides an internal view of the chassis, illustrating the various locations available for mounting 3.5-inch HDDs and 2.5-inch SSDs, emphasizing the flexible storage compatibility.

4. Component Compatibility

The Core P3 Pro Snow chassis is designed for broad component compatibility:

- **Motherboard Support:** Mini ITX (6.7” x 6.7”), Micro ATX (9.6” x 9.6”), ATX (12” x 9.6”), E-ATX (12” x 10.5”).
- **CPU Cooler Height Limitation:** 180mm.
- **VGA Length Limitation:** 330mm (with reservoir), 450mm (without reservoir).
- **PSU Length Limitation:** 200mm.
- **Fan Support (Right/M/B Side):** 3 x 120mm, 2 x 120mm, 1 x 120mm, 3 x 140mm, 2 x 140mm, 1 x 140mm.
- **Fan Support (Bracket/Front or Top):** 3 x 120mm, 2 x 120mm, 1 x 120mm, 3 x 140mm, 2 x 140mm, 1 x 140mm.
- **Radiator Support (Right/M/B Side):** 1 x 360mm, 1 x 240mm, 1 x 120mm, 1 x 420mm, 1 x 280mm, 1 x 140mm.
- **Radiator Support (Bracket/Front or Top):** 1 x 360mm, 1 x 240mm, 1 x 120mm, 1 x 420mm, 1 x 280mm, 1 x 140mm.

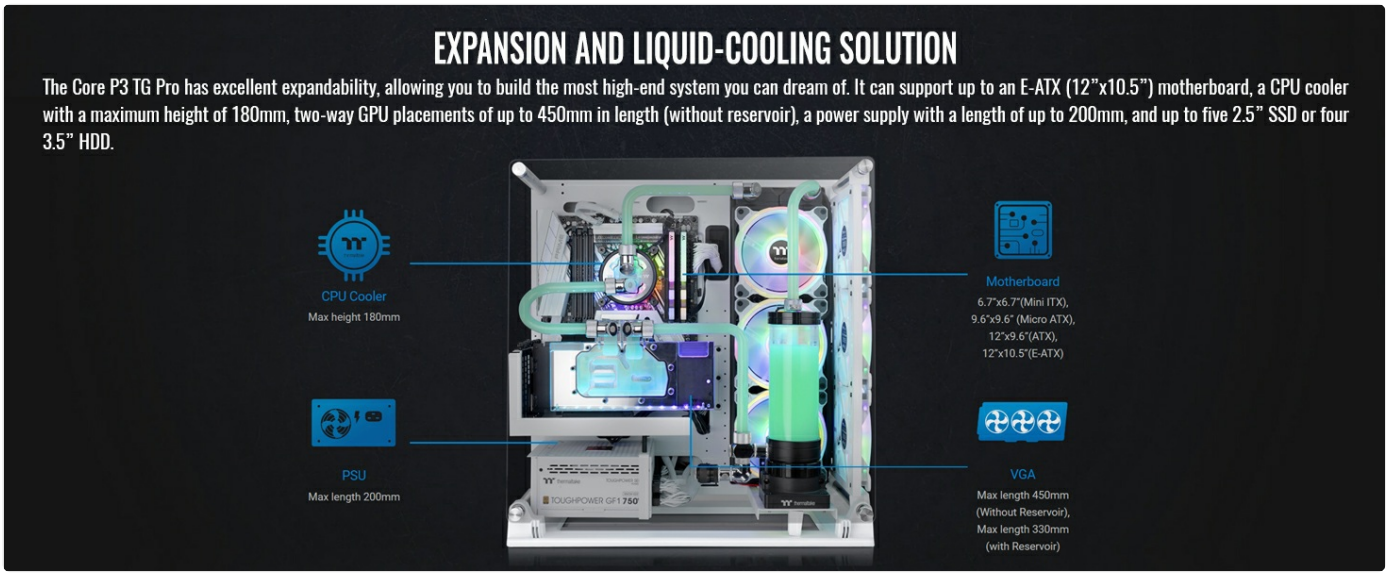


Figure 4.1: Expansion and Liquid-Cooling Solution Overview

This diagram visually represents the maximum dimensions for various components, including CPU cooler height, VGA card length (with and without reservoir), and PSU length, ensuring builders can plan their liquid cooling setups effectively.

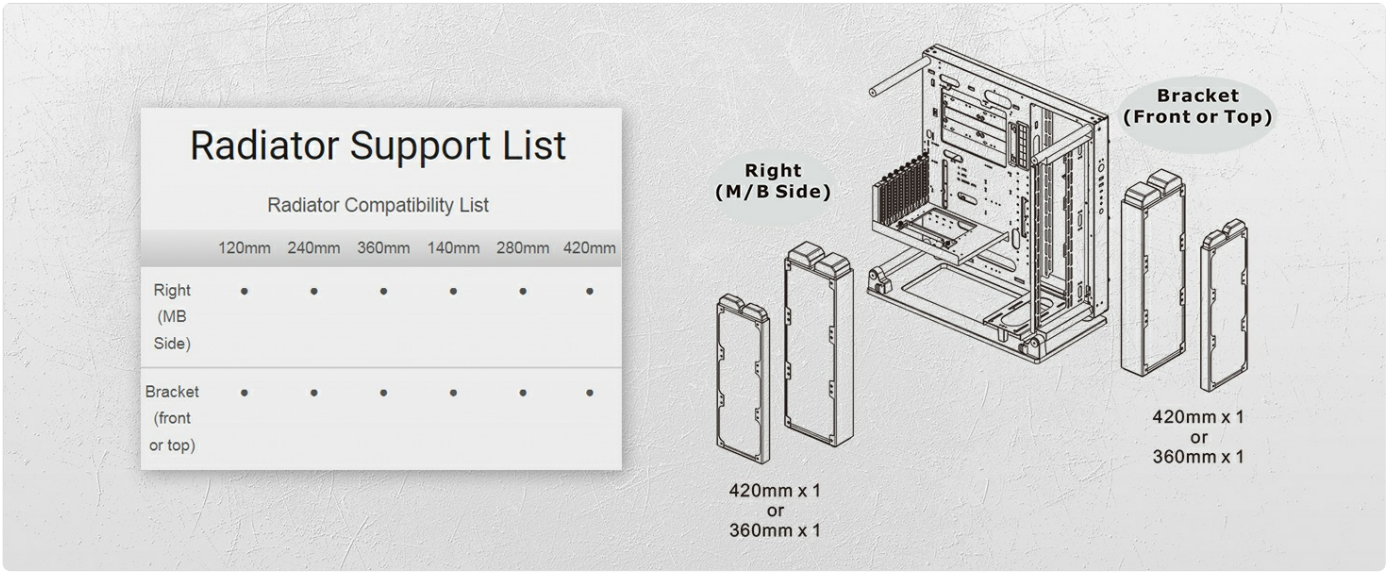
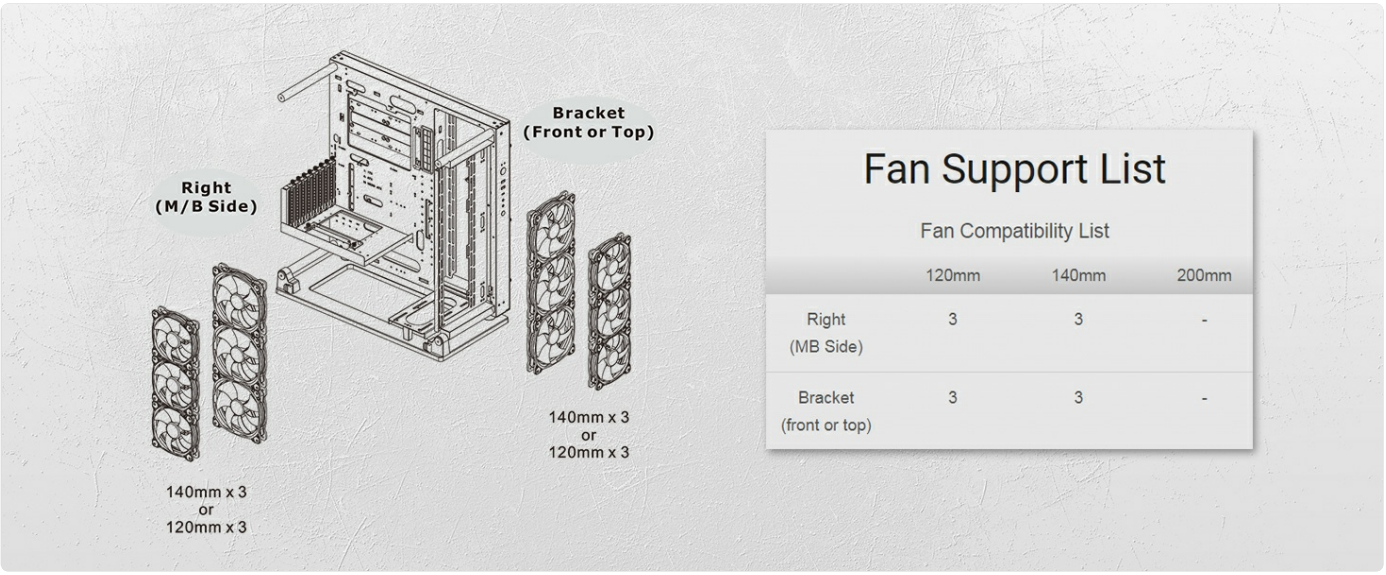


Figure 4.2: Radiator Compatibility List

This table and diagram detail the various radiator sizes supported by the chassis, both on the motherboard side and on the additional bracket (front or top), providing clear options for liquid cooling configurations.



Fan Support List

Fan Compatibility List

	120mm	140mm	200mm
Right (MB Side)	3	3	-
Bracket (front or top)	3	3	-

Figure 4.3: Fan Compatibility List

This table and diagram outline the fan sizes and quantities supported by the chassis, both on the motherboard side and on the additional bracket, assisting users in planning their airflow and cooling setups.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your chassis and components:

- **Dust Removal:** Due to its open-frame design, the chassis may accumulate dust more readily. Regularly use compressed air to clear dust from fans, radiators, and internal components.
- **Tempered Glass Cleaning:** Use a soft, lint-free cloth and a non-abrasive glass cleaner to clean the tempered glass panel. Avoid harsh chemicals that could damage the glass or coatings.
- **Component Inspection:** Periodically check all installed components, cables, and screws to ensure they are secure and free from damage.

6. Troubleshooting

This section addresses common issues and provides solutions. For complex problems, consult a qualified technician or Thermaltake support.

6.1. General Assembly Tips

- **CPU Power Connector Access:** If your motherboard has a CPU power connector at the top, you may need to remove the bottom HDD mount bracket from inside the case to route the cable behind it for better cable management. This can be done by removing four screws on the motherboard side. Alternatively, route the cable before installing the motherboard.
- **PSU Orientation for Vertical GPU:** If mounting the GPU vertically, ensure the power supply is not installed sideways. The case includes two PSU brackets; install the PSU with the fan facing the glass only if using a Micro-ATX board and no vertical mounting.
- **Support Post for PSU Bracket:** Attach the small support post to the power supply bracket *before* installing the power supply if you plan to install your GPU vertically with a riser cable. The PSU will block access to this screw later. Use the flat screw designed for the recess on the PSU bracket.
- **Thread Care:** The case steel can be soft, and powder coating may be in the threads. If you feel resistance when screwing, back out the screw and re-thread it gently a few times to clear the threads.

- **Hardware Identification:** Carefully go through the hardware. For example, rubber plugs and washers are for the tempered glass panel (plugs into glass, washers on thumb mounts) to protect it from damage and vibration. Refer to the manual's parts list for correct screw usage.

6.2. Cooling Issues

- **Radiator Fitment:** If a large radiator (e.g., 420mm) does not align perfectly with all screw holes, it might be due to a support piece slightly blocking a screw. Secure as many screws as possible to ensure stability.
- **Airflow Optimization:** Ensure fans are oriented correctly for optimal airflow (intake/exhaust). The open-frame design relies on proper fan placement to direct air effectively.

6.3. Component Sagging

- **GPU Sag:** The rotatable PCI-E slots and attached GPU holder are designed to prevent sag from heavy graphics cards. Ensure the GPU holder is properly installed and adjusted.
- **Chassis Stability:** The strong, steady feet are designed for stability. Ensure the chassis is placed on a flat, stable surface, especially for wall-mounted or horizontal configurations.

7. Specifications

Feature	Detail
P/N	CA-1G4-00M6WN-09
Case Type	Mid Tower
Dimensions (H x W x D)	535 x 268 x 500 mm (21.06 x 10.55 x 19.69 inch)
Net Weight	12.5 kg / 27.6 lbs.
Side Panel	4mm Tempered Glass x 1
Color	White
Material	SPCC
Drive Bays	2 x 3.5” or 3 x 2.5” (Standard) 4 x 3.5” or 5 x 2.5” (With HDD bracket)
Expansion Slots	8
Motherboard Compatibility	Mini ITX, Micro ATX, ATX, E-ATX
I/O Port	USB 3.2 (Gen 2) Type-C x 1, USB 3.0 x 2, HD Audio x 1
PSU Support	Standard PS2 PSU (optional)
CPU Cooler Height Limit	180mm
VGA Length Limit	330mm (With reservoir), 450mm (Without reservoir)
PSU Length Limit	200mm

8. Warranty and Support

For detailed warranty information and technical support, please refer to the official Thermaltake website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Online Resources:

- Thermaltake Official Website
- Thermaltake Amazon Store