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› [Thermaltake Level 20 E-ATX Full Tower Gaming PC Case Instruction Manual](#)

## Thermaltake CA-1J9-00F9WN-00

# Thermaltake Level 20 E-ATX Full Tower Gaming PC Case Instruction Manual

Model: CA-1J9-00F9WN-00 | Brand: Thermaltake

## INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your Thermaltake Level 20 E-ATX Full Tower Gaming PC Case. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance.

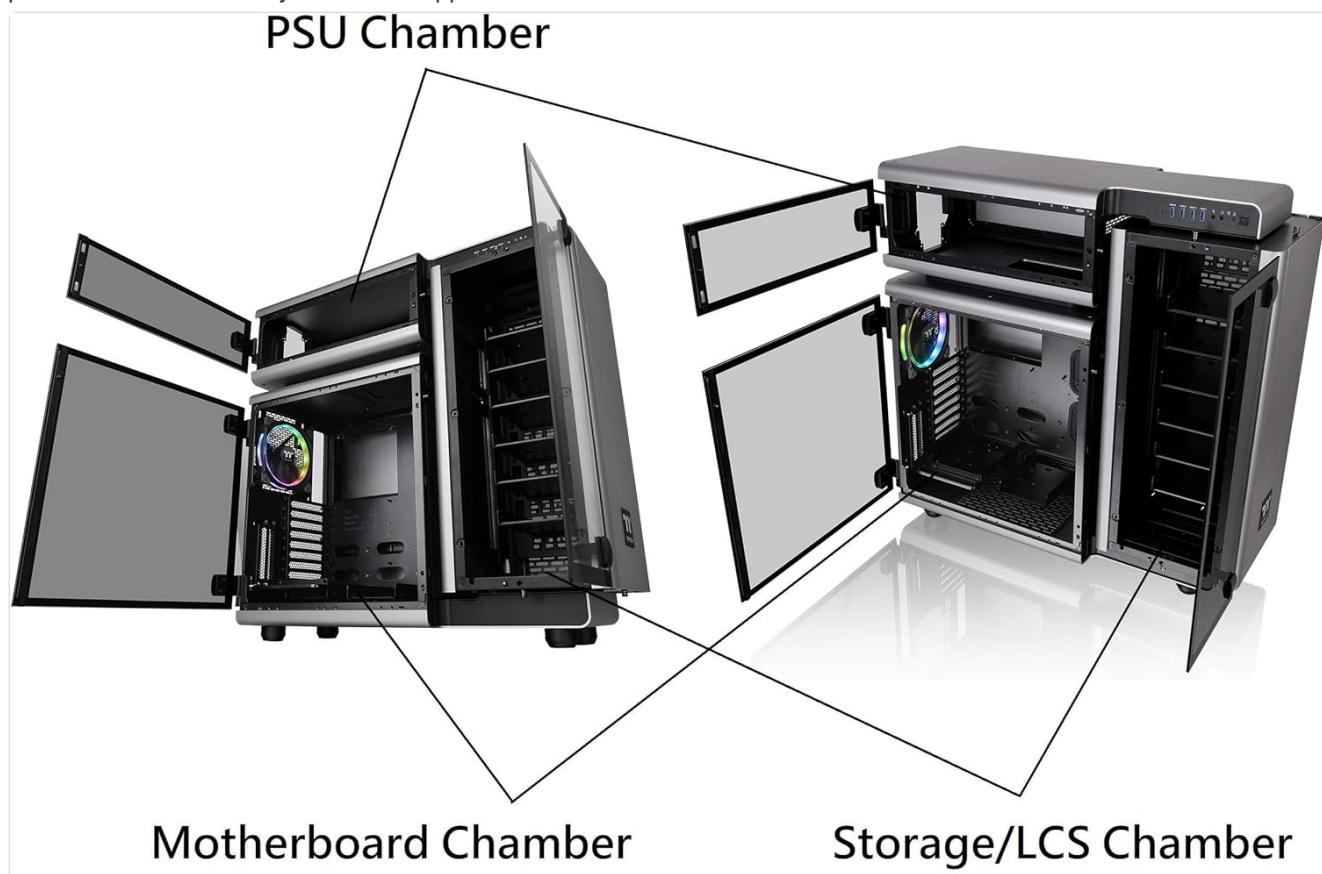
## KEY FEATURES

- Alexa Integration:** Control fan/LED strip lights or fan speed using Alexa-enabled devices.
- Razer Chroma Compatibility:** Sync Level 20 fan/LED strip RGB lighting with the Razer Chroma ecosystem.
- Vibrant Lighting:** Includes 3 Riing Plus 140mm fans and 2 Lumi Plus LED strips for customizable cooling aesthetics.
- Trio Chamber Design:** Separated into three distinct chambers (PSU, Motherboard, and Storage/LCS) for optimized cooling performance.
- Clear View Panels:** Features 3 hinged 4mm thick Tempered Glass swing doors with a tool-less smart-lock design for durability and easy access.
- Modular Construction:** Steel and aluminum dismountable modular design allows for flexible system building with removable panels, racks, brackets, and mounting arrays.
- Premium I/O Port:** Equipped with 1x USB Type-C (10GB/s transmission speed), 4x USB 3.0 Ports, and HD Audio.
- Versatile PSU Placement:** Supports both horizontal and vertical PSU placement to showcase power supply lighting.
- Built-in PCI-E 3.0 Riser Cable:** Includes one Thermaltake TT gaming PCI-E 3.0 riser cable (P/N ac-045-cn1otn-c1) for vertical GPU mounting.
- Extensive Storage Options:** Accommodates up to 11 drives with six 2.5"/3.5" HDD racks in the front chamber, two 2.5"/3.5" below the motherboard, and three 2.5" or two 3.5" behind the motherboard tray.

## PRODUCT OVERVIEW

The Thermaltake Level 20 E-ATX Full Tower Case is designed for enthusiasts seeking advanced cooling, extensive hardware support, and a premium aesthetic. Its innovative trio-chamber structure and tempered glass panels

provide both functionality and visual appeal.



**3 Hinged 4mm Thick Tempered Glass with Smart-Lock Design**  
**Trio Chambers: PSU, Motherboard, and Storage/LCS Chambers**

Figure 1: Trio Chamber Design and Tempered Glass Panels



**Front View**



**Back View**



**Left View**



**Right View**

Figure 2: Case Views (Front, Back, Left, Right)

Video 1: Thermaltake Level 20 E-ATX Full Tower Gaming Computer PC Case Overview. This video provides a visual tour of the case, highlighting its features and design.

## SETUP INSTRUCTIONS

### 1. Unpacking and Initial Inspection

Carefully remove the chassis from its packaging. Inspect for any damage during transit. Ensure all included accessories (manual, tool pack) are present.

### 2. Panel Removal

The case features hinged tempered glass panels with a smart-lock design for easy access. Gently push the 'PUSH

'OPEN' mechanism to unlock and swing open the panels. The top and front panels are also removable for installation and maintenance.

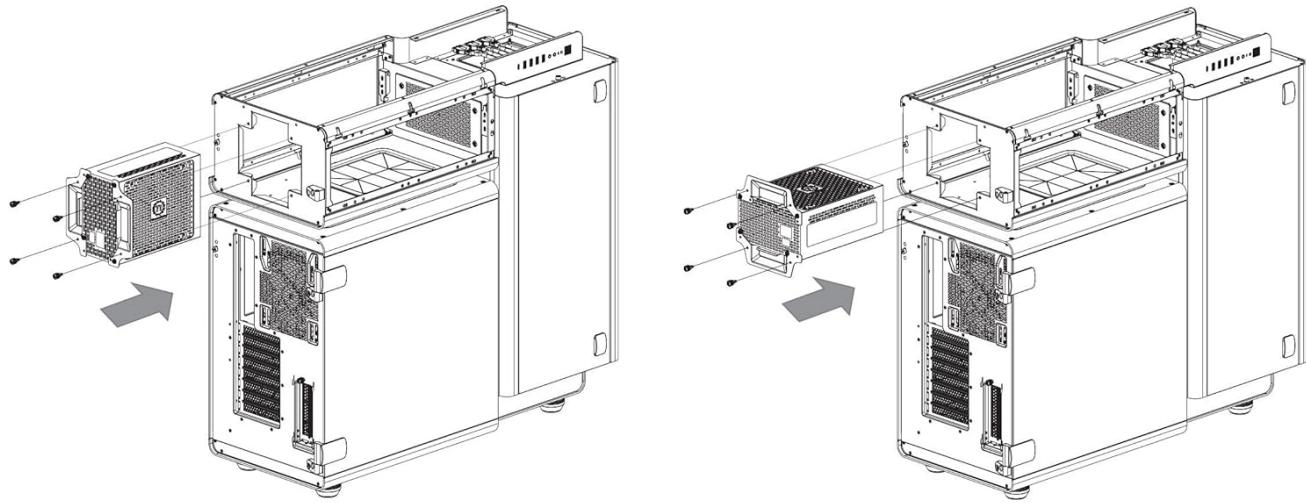


Figure 3: Tool-Less Smart-Door-Lock Design

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

The Level 20 supports standard PS2 PSUs and offers 2-way placement (horizontal or vertical). Choose your preferred orientation and secure the PSU in the dedicated chamber.

# 2-Way PSU Placement



**Vertical PSU Mounting**

**Horizontal PSU Mounting**

Show Off Thermaltake RGB PSU Fan

Figure 4: 2-Way PSU Placement Options

## 4. Motherboard Installation

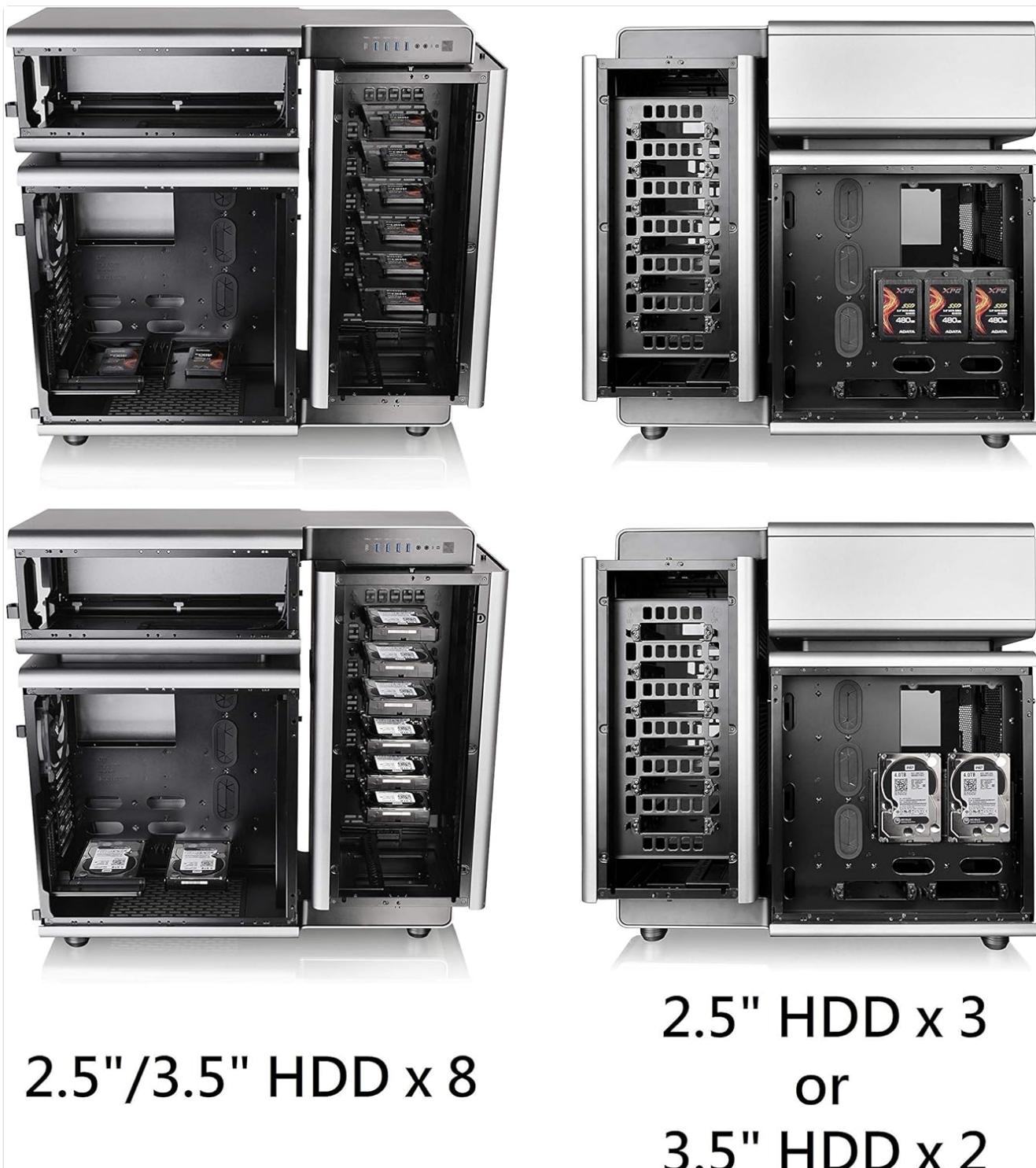
The motherboard chamber supports various motherboard sizes, up to E-ATX. Carefully align your motherboard with the standoffs and secure it with screws.



Figure 5: Motherboard Compatibility

## 5. Storage Device Installation

Install your 2.5" or 3.5" HDDs/SSDs into the designated drive bays located in the front LCS/Storage Chamber and behind the motherboard tray.



2.5"/3.5" HDD x 8

2.5" HDD x 3  
or  
3.5" HDD x 2

Figure 6: Drive Bay Configurations

## 6. Graphics Card (VGA) Installation

Install your graphics card into the appropriate PCI-E slot on the motherboard. For vertical GPU mounting, utilize the included Thermaltake TT gaming PCI-E 3.0 riser cable.



Figure 7: Thermaltake TT Gaming PCI-E 3.0 Riser Cable Included



Figure 8: Vertical GPU Mounting Position

## 7. Cooling System Installation

The case comes pre-installed with 3 Riing Plus 140mm RGB fans and 2 Lumi Plus LED strips. Additional fans and radiators can be installed in the LCS/Storage Chamber and Motherboard Chamber as per compatibility specifications.



## 3 Riing Plus 140mm Fan Pre-installed

Figure 9: 3 Riing Plus 140mm Fans Pre-installed

### 8. Cable Management

Utilize the pass-through ports between chambers and the ample space behind the motherboard tray for effective cable management. This helps maintain optimal airflow and a clean interior aesthetic.

### 9. Connecting I/O Ports

Connect the front I/O panel cables (USB 3.0, Type-C, HD Audio) to the corresponding headers on your motherboard.



Figure 10: Premium I/O Port Layout

## OPERATING INSTRUCTIONS

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### 1. Powering On/Off

Press the power button on the front I/O panel to turn on your system. To power off, use your operating system's shutdown function or press and hold the power button.

### 2. RGB Lighting Control

The pre-installed Riing Plus fans and Lumi Plus LED strips feature RGB lighting. Control and customize these lights using compatible software such as Thermaltake's TT RGB Plus software, or integrate with Razer Chroma ecosystem. Voice control via Alexa-enabled devices is also supported for fan/LED strip lights and fan speed.

## MAINTENANCE

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### 1. Cleaning Dust Filters

Regularly clean the dust filters to maintain optimal airflow and prevent dust buildup inside the case. The modular

design allows for easy removal of panels for access to filters.

## 2. General Cleaning

Use a soft, dry cloth to clean the exterior surfaces of the case, including the tempered glass panels. Avoid abrasive cleaners that may scratch the surfaces.

## TROUBLESHOOTING

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If you encounter any issues with your Thermaltake Level 20 case, please refer to the following general troubleshooting steps:

- **No Power:** Ensure all power cables (PSU to wall, PSU to motherboard/components) are securely connected. Verify the PSU switch is in the 'ON' position.
- **Fan/Lighting Issues:** Check software settings (TT RGB Plus, Razer Chroma) for fan speed and RGB configurations. Ensure all fan and LED strip cables are properly connected to their respective controllers and headers.
- **Overheating:** Verify that all fans are spinning correctly and are not obstructed. Ensure dust filters are clean. Check thermal paste application on CPU cooler.
- **Component Fitment:** Refer to the specifications section for maximum dimensions of components (VGA, CPU cooler, PSU) to ensure compatibility.

For further assistance, please contact Thermaltake customer support.

## SPECIFICATIONS

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Feature	Detail
Series	Level 20
Case Type	Super Tower
Net Weight	32kg / 70.55 lb
Side Panel	4mm Tempered Glass x 3 (Left)
Color	Exterior Space Gray (Aluminum), Interior Black
Material	SPCC + Aluminum
Drive Bays (Accessible)	2.5" or 3.5" x 6 (HDD Cage), 2.5" or 3.5" x 2 (HDD Bracket)
Drive Bays (Hidden)	2.5" x 3 or 3.5" x 2 (HDD Bracket)
Expansion Slots	8+2
Motherboard Compatibility	Mini ITX (6.7" x 6.7"), Micro ATX (9.6" x 9.6"), ATX (12" x 9.6"), E-ATX (12" x 13")
I/O Port	USB 3.0 x 4, Type-C x 1, HD Audio x 1
PSU Type	Standard PS2 PSU (optional)
Fan Support (LCS/Storage Chamber)	4 x 120mm, 3 x 140mm
Fan Support (M/B Chamber Front)	3 x 120mm, 2 x 140mm

Fan Support (M/B Chamber Rear)	1 x 120mm, 1 x 140mm
Radiator Support (LCS/Storage Chamber)	1 x 480mm, 1 x 420mm
Radiator Support (M/B Chamber Front)	1 x 360mm, 1 x 280mm
Radiator Support (M/B Chamber Rear)	1 x 120mm, 1 x 140mm
CPU Cooler Height Limitation	200mm
VGA Length Limitation	260mm (With Thick Radiator + Fan), 310mm (Without Radiator)
PSU Length Limitation	220mm



Figure 11: Max PSU Length



Figure 12: Max VGA Length



Figure 13: Max CPU Cooler Height

## WARRANTY AND SUPPORT

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For warranty information, technical support, or to purchase replacement parts, please visit the official Thermaltake website or contact their customer service department. Keep your proof of purchase for warranty claims.