

Manuals.plus /

- › Cooler Master /
- › Cooler Master NCORE 100 MAX Bronze ITX SFF Tower Case Instruction Manual

Cooler Master NR100-ZNNN85-SL0

Cooler Master NCORE 100 MAX Bronze ITX SFF Tower Case

Instruction Manual - Model: NR100-ZNNN85-SL0

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Cooler Master NCORE 100 MAX Bronze ITX SFF Tower Case. Designed for maximum performance in a minimal form factor, this case integrates superior cooling and power solutions. Please read this manual thoroughly before beginning installation to ensure proper setup and safe operation.





Figure 1: Cooler Master NCORE 100 MAX Bronze ITX SFF Tower Case.

Your browser does not support the video tag.

Video 1: NCORE 100 MAX - Max Performance, Minimalist Design by Cooler Master. This video provides an overview of the product's features.

2. SAFETY INFORMATION

Always disconnect power before performing any installation or maintenance. Handle components with care to avoid damage. Static electricity can harm electronic components; consider using an anti-static wrist strap. Keep small parts away from children.

3. PACKAGE CONTENTS

- NCORE 100 MAX Bronze ITX SFF Tower Case
- Custom 120mm AIO Liquid Cooler (Pre-installed)

- 850W SFX Gold ATX3.0 PSU (Pre-installed)
- Custom PCIe 4.0 Riser Cable
- Accessory Box (Screws, zip ties, additional cables)

4. SETUP AND INSTALLATION

The NCORE 100 MAX is designed for easy assembly. Follow these steps for a smooth build process.

4.1. Case Disassembly

The case features a tool-less design for easy access to internal components.

1. Pull off the outer panels.
2. Remove the top panel.
3. Unlock the corner cable cover's tool-less latches, rotate the cable cover, and then remove it.



Figure 2: Exploded view demonstrating the tool-less disassembly of the NCORE 100 MAX.

4.2. Motherboard Installation

Install your Mini-ITX motherboard into the case. The case supports both Intel and AMD motherboards.

1. Place the bracket on the back of the motherboard (after CPU installation, please see motherboard's manual).
2. Mount the four standoffs and tighten each by hand.
3. Place the motherboard into the case by sliding it in, back IO panel first.
4. Tighten the 4 screws to secure the motherboard.
5. Install the 8-pin EPS cable.
6. Install the 24-pin EPS cable.
7. Install front panel connector for Power button.
8. Install USB connectors.
9. Plug in HD audio connector.

Refer to the official installation video for detailed steps:

Your browser does not support the video tag.

Video 2: NCORE 100 MAX - Installation Tutorial by Cooler Master. This video demonstrates the full installation process.

Intel Motherboard Installation: 0:34 - 2:24 in the video.

AMD Motherboard Installation: 2:25 - 4:44 in the video.

4.3. CPU Cooler Installation (AIO)

The NCORE 100 MAX comes with a pre-installed custom 120mm AIO liquid cooler for optimal CPU cooling.

1. Install two brackets on the pump.
2. Apply a pea-sized drop of thermal paste to the center of the CPU.
3. Remove the foil and lightly place the cooling block face down on the CPU.
4. Apply the 4 nuts to the standoffs, and gently tighten by hand.
5. Tighten the 4 nuts with a screwdriver, alternating between each after every turn and being careful not to over tighten.
6. Connect the pump's 3-pin header to the motherboard's "AIO pump" header.
7. Connect the radiator fan's 4-pin cable to the "CPU-fan" header.
8. Connect the rear fan's 4-pin cable to the "CHA-FAN" or "Chassis fan" header.

MAX

THE MAX REVOLUTIONIZED

Continuing the **MAX's** heritage, the **NCORE 100 MAX** boasts effortless installation and distinctive aesthetics through its seamlessly integrated components.



Figure 3: Internal view of the NCORE 100 MAX showing the pre-installed AIO cooler and PSU.

4.4. Graphics Card Installation

The NCORE 100 MAX supports various GPU sizes. Ensure proper placement and connection of the PCIe 4.0 riser cable.

1. Install the GPU, ensuring that the PCIe connector is placed properly in its slot.
2. Tighten the GPU screws.
3. Install the 16-pin power connector, ensuring it is properly seated.

For specific GPU lengths and thicknesses, refer to the official installation video:

Your browser does not support the video tag.

Video 3: NCORE 100 MAX - Installation Tutorial by Cooler Master. This video demonstrates the full installation process.

GPUs up to 337mm in length and 62mm thick: 5:10 - 5:41 in the video.

GPUs between 337-357mm in length: 5:42 - 7:49 in the video.

GPUs between 63-79mm of thickness: 7:50 - 9:58 in the video.

TAILOR-MADE POWER SOLUTION

It incorporates an **850W SFX Gold ATX 3.0 PSU** with custom-length cables purposefully designed to meet all performance requirements.



Figure 4: Custom PCIe 4.0 Riser Cable for graphics card installation.

4.5. SSD Installation

Install your 2.5" SSD drives.

1. Tighten the tool-less SSD mounting pins by hand.
2. Connect the SATA power cable to the PSU.
3. Connect the SATA data cable to the SSD.
4. Fit the pins into the bottom panel rubber rings. (Tip: align the back two pins first).

Refer to the official installation video for detailed steps:

Your browser does not support the video tag.

Video 4: NCORE 100 MAX - Installation Tutorial by Cooler Master. SSD installation steps are shown from 11:00 - 12:15 in the video.

4.6. Cable Management

The NCORE 100 MAX comes with pre-routed cables for the integrated PSU and AIO, simplifying cable

management. Ensure all cables are neatly tucked away to maintain optimal airflow.

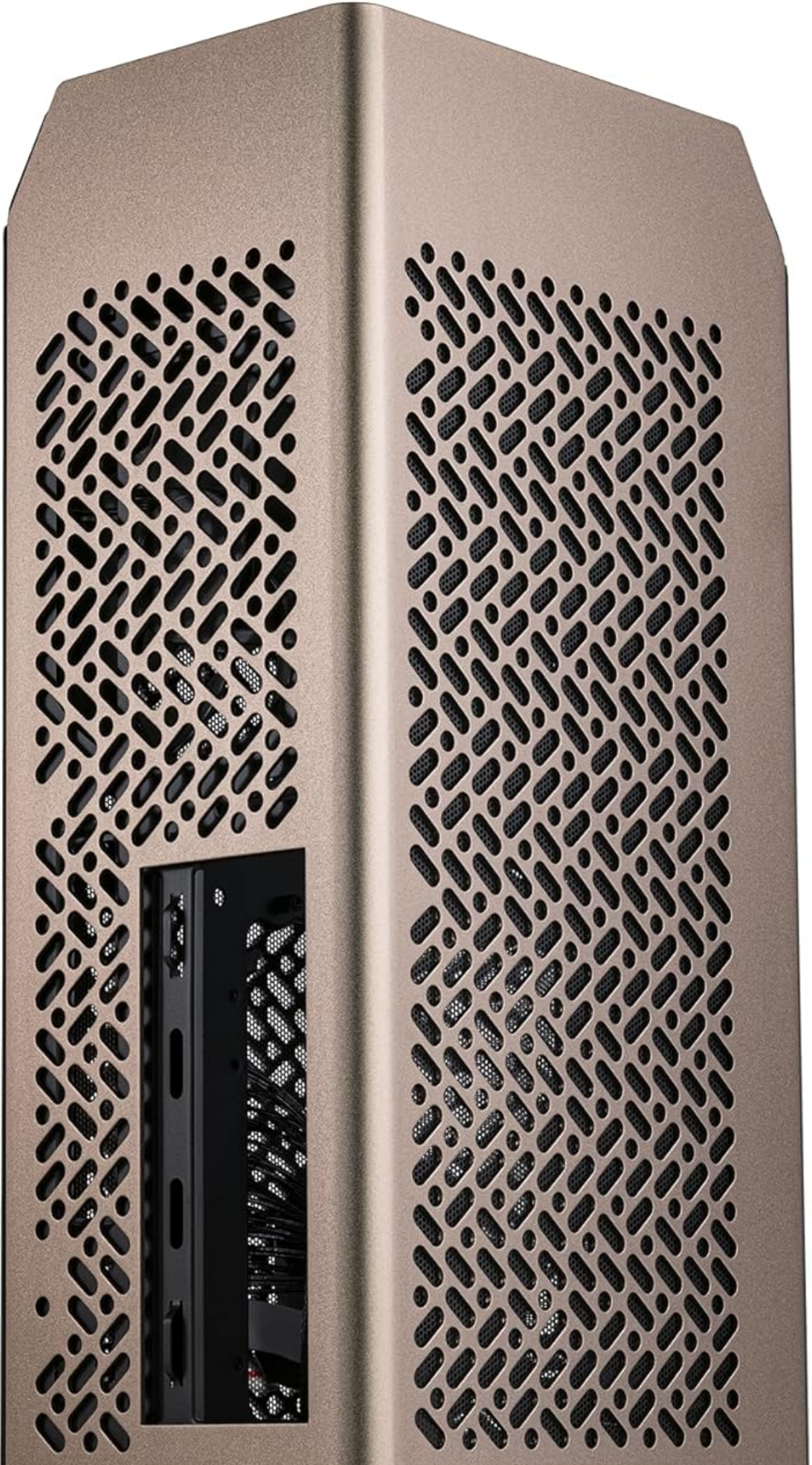




Figure 5: Internal view of the NCORE 100 MAX with pre-routed cables.

4.7. Reassembly

1. Install the front cable cover and lock it into place by hand.
2. Install the top cover by hand.
3. Install the external panels by hand.

Refer to the official installation video for detailed steps:

Your browser does not support the video tag.

Video 5: NCORE 100 MAX - Installation Tutorial by Cooler Master. Reassembly steps are shown from 9:58 - 10:22 in the video.

5. OPERATING INSTRUCTIONS

Once all components are installed and secured, connect your peripherals and power cable. Press the power button on the front panel to start your system. Ensure all fans are spinning and no unusual noises are present.

6. MAINTENANCE

- **Cleaning:** Regularly clean dust filters and internal components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Thermal Paste:** Reapply thermal paste to the CPU every 2-3 years or if CPU temperatures are consistently high.
- **Cable Management:** Periodically check cable routing to ensure no cables are obstructing airflow or fan blades.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
System not powering on	Loose power connections, faulty PSU, faulty power button.	Check all power cables (24-pin, 8-pin EPS, GPU power). Ensure PSU switch is ON. Test power button connection.
No display output	GPU not seated correctly, monitor cable loose, incorrect input selected on monitor.	Reseat GPU. Check display cable connections. Ensure monitor is on correct input.
High CPU temperatures	Insufficient thermal paste, AIO pump/fan issue, poor airflow.	Check thermal paste application. Verify AIO pump and fan operation. Ensure case panels are properly installed for optimal airflow.
GPU fans not spinning	No load on GPU, power cable not connected properly.	GPU fans often only spin under load. Check 16-pin power connector is fully seated.

8. SPECIFICATIONS

Feature	Detail
Brand	Cooler Master
Model Name	NCORE 100 MAX Bronze
Item Model Number	NR100-ZNNN85-SL0
Case Type	Mini-Tower (ITX SFF)
Motherboard Compatibility	Mini ITX
Included PSU	850W SFX Gold ATX3.0
Included AIO Cooler	Custom 120mm MasterLiquid 120L Core
GPU Support (Length)	Up to 357mm (expandable design)
GPU Support (Thickness)	Up to 79mm (4-slot GPU)
PCIe Riser	Custom PCIe 4.0
Material	Aluminum, Alloy Steel, Plastic
Dimensions (LxWxH)	6.1 x 18.93 x 8.35 inches
Item Weight	13.89 pounds

9. WARRANTY AND SUPPORT

For warranty information and technical support, please visit the official Cooler Master website or contact their customer service. Keep your proof of purchase for warranty claims.

Visit the Cooler Master Store