



RIOTORO CR480

Installation Guide

Welcome to RIOTORO

Thank you for purchasing the RIOTORO CR48o.

The CR48o chassis squeezes raw computing power into in a cool, quiet and elegant PC that compliments any office while occupying minimal little desk space.

Note

This manual is a guide for RIOTORO's computer cases. For instructions on installing the motherboard and other components, please refer to their documentation.

Included Hardware

- 2x spare thumbscrews
- 4x large thumbscrews
- 14x small Philips head screws
- 2x extra standoff
- 7x zip tie(cable ties)



Key Installation Points



1) Front panel

- USB 3.0 ports
- Microphone jack
- Headphone jacks
- Power switch
- Reset switch
- Hard Disk Drive LED

2) I/O shield cutout

3) PCI-E expansion slots

4) Power supply bay

Before You Begin

Please take the following precautions:

- Handle all PC components and cards with care.
- Hold cards and processors by their edges to avoid damaging components.
- To avoid damaging components by electrostatic discharge, periodically ground yourself by touching an unpainted metal surface or by using a wrist grounding strap.
- Before connecting cables, make sure the connectors are correctly aligned.
- Consult the documentation of your motherboard and other components for specific installation instructions and troubleshooting.

When routing cables...

- Route and bundle PSU and case cables to reduce clutter for a cleaner look and to improve airflow. The case is designed with cable pass-through cutouts throughout and space to conceal cables under the right side panel (as seen from the front). Use the provided nylon zip ties to hold the cables in place.
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Remove the case side panels

Put the case upright on a stable, flat surface with rear facing you. Remove the thumbscrews from both side panels and store them in a safe place. Remove each panel by slide the panel toward the rear.

Install the motherboard

The CR480 is compatible with ATX motherboards enabling you to build a high-performance PC. Let's install one.

- 1. Install the CPU, CPU cooler and memory on the motherboard.**

Refer to your CPU and motherboard documentation how to mount the CPU and its cooler on your motherboard. If you are using a liquid CPU cooler you may find it easier to install it after the motherboard is installed in the case.

- 2. Install the I/O shield**

your motherboard should have come with a standard I/O shield that exposes the rear motherboard connectors out of the back of the case. From inside, snap the I/O shield into the cutout in the rear of the case.



Figure 1 Example I/O panel

- 3. Attach the motherboard to the case.**

The CR480 comes with mounting standoffs to fit most commercial solutions out there. Slide the motherboard into the I/O panel and then align the motherboards screw holes with the case standoff. Attach the motherboard to the standoffs with the provided motherboard screws.

Install Hard Drives and SSDs

The CR480 has one 3.5" drive bays and two 2.5" drive bays. These bays are located in the compartment under the motherboard.

To install a 3.5" hard drive

The Cr480 supports up to three 3.5" HDD that can be accommodated without the use of tools.

1. Pull each of the brackets to remove the plastic bracket out of the bay, once out place the HDD into the plastic bracket and slide it back to its original position until it is secure.

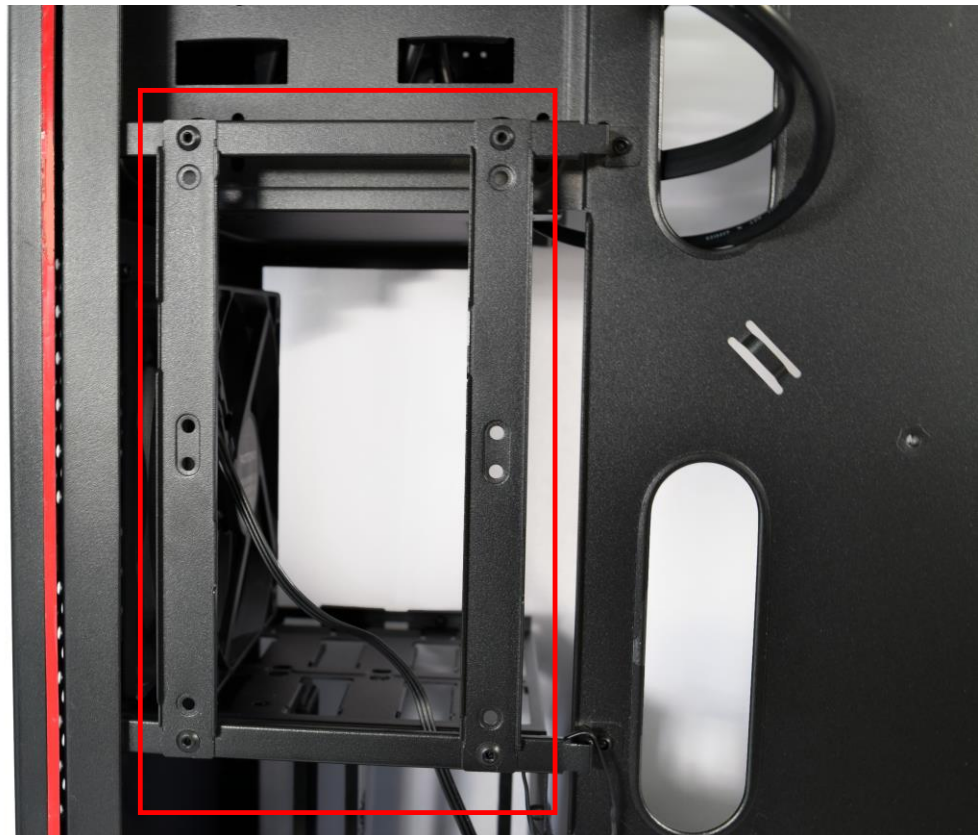


To install drives into the 2.5" mounts

The CR480 case has two mounts for 2.5" drives such as solid state drives (SSD)..

To mount a 2.5 drive:

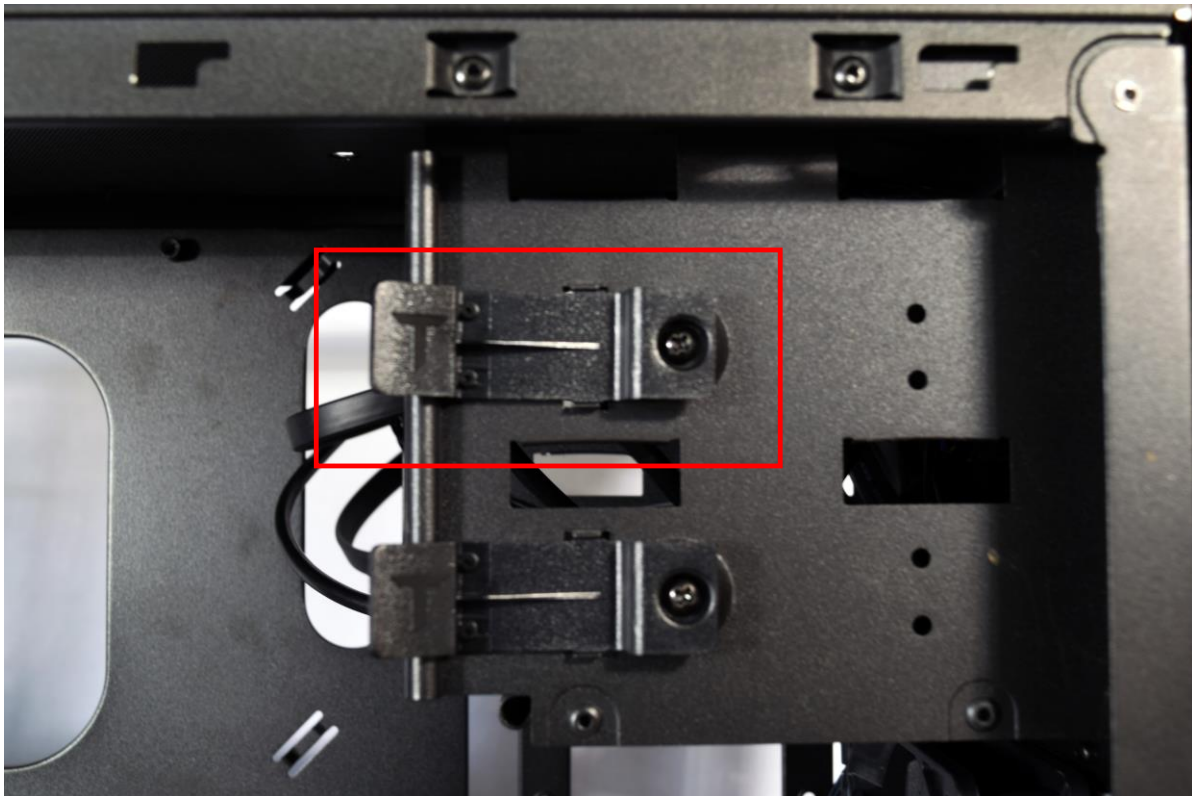
1. place the 2.5" drive and align the drive to a position where it can be secured.



2. From other side of the case, screw the drives in place with the provided Philips screws.
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To install 5.25" inch optical Drive

1. Remove the plastic cover from the front Bezel, the CR480 supports a total of 2 Optical Drive bays. Each protected by a plastic cover.
2. Once the cover is removed slide the unit into the bay, until the drive is totally secured By the plastic retention mechanism..










Attach Cables

Connect the Front Panel Switches and LEDs

The CR480 front panel switches, LEDs, and USB ports have wire leads that need to be attached to header pins on the motherboard. Refer to your motherboard manual to locate the proper motherboard header pins and attach the cable connectors listed below.

Note: The LED leads are marked positive (+) or negative (-) and must be connected to the corresponding pins on the motherboard. The orientation of the switch connectors does not matter.

| Front Panel | Cable Connector |
|--|--|
| Power switch |  |
| Reset switch |  |
| Power LED (+) and (-) |  |
| Hard Disk Drive LED (+) and (-) |  |
| HD Audio (mic and headphone) |  |
| USB 3.0 ports (1 cable for 2 ports) |  |
| Cooling Fans | Connector |
| Fans (2) |  |

Attach the case fan cables

The CR480 comes with two 120mm fan —a front intake fan and a rear exhaust fan.

1. Connect the 3-pin connector of each fan to a 3 pin fan header on your motherboard. Refer to your motherboard manual for more information.

Note: The CR480 includes mounts for two more 120mm fans on the top.

Install the Power Supply

The power supply unit (PSU) drive bay is located on the bottom of the case.

1. Slide the PSU in the case PSU bay with the fan facing the case bottom. Push the power supply to the rear
 2. Align the PSU and case mounting holes and attach the power supply to the case with the provided PSU thumbscrews.
 3. Connect the relevant PSU cables to your motherboard and drives.
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Specifications

| | |
|------------------------------|---|
| Motherboard support | Mini-ITX |
| Drive bays | - 3x 3.5" - 2x 2.5" |
| Front panel I/O | - 2x USB 3.0 ports - 1x Headphone out - 1x Microphone in |
| Expansion slots | 7 |
| Fans | Fans included - 1x 120mm front intake - 1x 120mm rear exhaust |
| PSU support | Standard ATX |
| Max. GPU length | 320mm |
| Max CPU cooler height | 164.8mm |
| Materials | Steel and plastic |
| | |

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