RIOTORO CR1080

Installation Guide
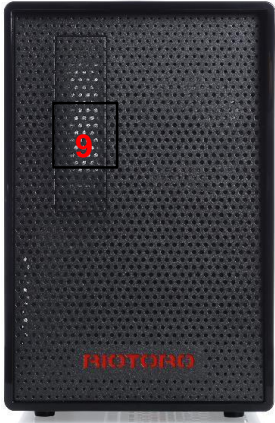
Welcome to RIOTORO

Thank you for purchasing the RIOTORO CR1080 Computer Case

The CR1080 chassis squeezes raw computing power into in a cool, quiet and elegant PC that compliments any office while occupying minimal little desk space for a full ATX solution. The CR1080 achieves this by combining a small product supporting ATX, Micro ATX and Mini-ITX .

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.

Key Installation Points

1) Front panel
   - USB 3.0 ports
   - Microphone jack
   - Headphone jacks
   - Power switch
   - Reset switch
   - Power LED strip
   - Hard Disk Drive LED

2) I/O panel cutout
3) PCI-E expansion slots
4) Fans and fan/rad mounts
5) Motherboard tray
6) Power supply bay
7) 2.5" drive mount
8) 3.5" tool-less drive mount
9) 5.25 optical drive

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.

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 CR1080 is compatible with up to Full ATX, enabling you to build a high-performance compact 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 panel**.

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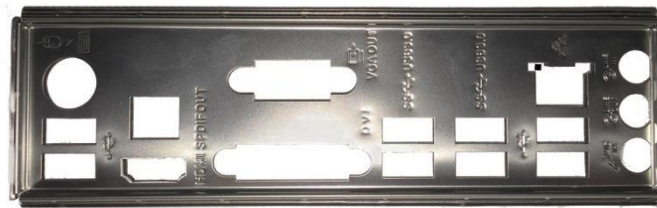

Figure 1 Example I/O panel

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

    The CR1080 comes with enough mounting standoffs for a full ATX or smaller form factor. 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 CR1080 has one 3.5" dedicated bay and two 2.5" drive bays. That can be adapted into a 3.5 "if desired to. These bays are located in the compartment behind the motherboard tray

To install a 3.5" hard drive

The 3.5" drive bay comes with a plastic bracket that needs to be used in order to install the HDD in the right position.

1. Remove the plastic bracket, attach the HDD into it, and place the bracket with the drive in its original position.
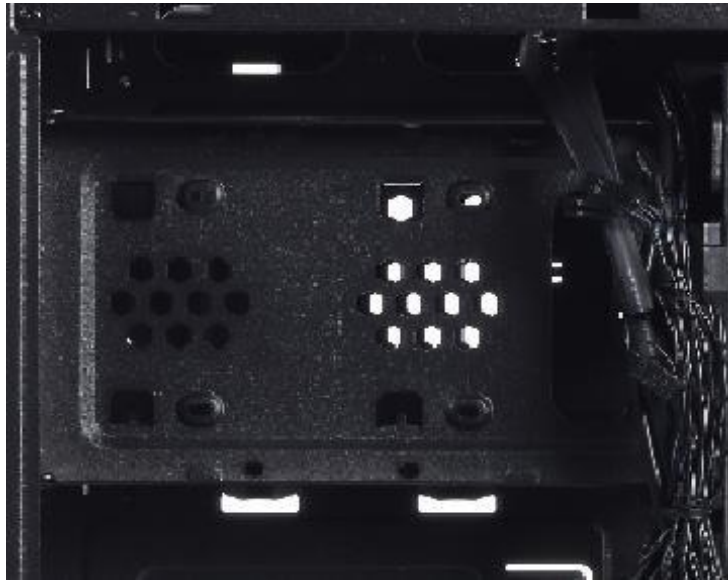
To install drives into the 2.5" mounts

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

To mount a 2.5 drive:

1. Remove the thumbscrew that holds the SSD Bridge attached to the main body this will allow the user to open the Cage Bridge.

2. You can align each of the 2.5 drive in both faces of the Bridge. One below the steel sheet, and one above. Also, you can convert the 2.5 " bay on top into a 3.5".

3. Using the thumb screw, attach the bridge back to its original position.

Install the optical Drive.

The CR1080 allows for one optical drive that needs to be installed vertically.
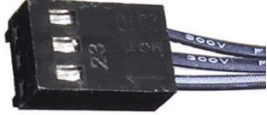
1. Remove the front cover of the drive.

2. Insert the drive into the bay, making sure there front bezel of the case align with the front bezel of the Optical drive.

3. Use provided Screws to secure the Optical drive unit.

4. Connect the data and power cables to the Optical Drive.

Attach Cables

Connect the Front Panel Switches and LEDs

The CR1080 front panel switches, LEDs, and USB ports have wire leads that need to be attached to header pins 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	POWER SW
Reset switch	RESET SW
Power LED (+) and (-)	POWER LED– POWER LED+
Hard Disk Drive LED (+) and (-)	H.D.D. LED
HD Audio (mic and headphone)	HD AUDIO
USB 3.0 ports (1 cable for 2 ports)	
Cooling Fans	**Connector**
Fans (2)	

Attach the case fan cables

The CR1080 comes with two 120mm fans—a front intake fan and a rear exhaust fan.

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

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 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 screws.

3. Connect the relevant PSU cables to your motherboard and drives.

Specifications

Motherboard support	ATX, Micro ATX, Mini ATX
Drive bays	- 1x 3.5" - 1x 2.5" - 1x convertible 2.5/3.5" - 1x 5.25"
Front panel I/O	- 2x USB 3.0 ports - 1x Headphone out - 1x Microphone in
Expansion slots	7
Fans Radiator point:	Fans included -1x 120mm front intake 1x 120mm front.
Fan mount points	1x 120mm (front) 2x 120mm (bottom) 1x 80mm (back)
PSU support	ATX 175x150x85 mm
Max. GPU length	Up to 300mm long reference design
Materials	Steel and plastic
Dimensions	9.625" (W) x 14.125" (H) x 15.5" (D) (245mm x 359mm x 394mm)

RIOTORO

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