RIOTORO PRISM CR1280

Installation Guide

Thank you for purchasing the RIOTORO Prism CR1280.

The Prism CR1280 chassis allows up to 256 RGB color options to choose from , it also provides ample space and it is one of the lightest Full tower cases in the market with support to both USB2.0 and USB 3.0.

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

1. **10x thumbscrews**
2. **2x spare thumbscrews**
3. **16x small Philips head screws**
4. **8x screws** for fans

5. **8x long screws**
   For optional cooling radiators
6. **6x nylon ties**
   For tying cables

Key Installation Points

1) Front panel

   - **USB 3.0 ports**
   - **USB 2.0 Ports**
   - **Microphone jack**
   - **Headphone jacks**
   - **RGB button**
   - **Fast & slow button**
   - **Power switch**
   - **Reset switch**
   - **Power LED**
   - **Hard Disk Drive LED**

2) I/O shield cutout
3) expansion slots
4) Fans and fan/rad mounts
5) Motherboard mount points
6) Power supply bay
7) 2.5" tool-less drive mount
8) 2.3" tool-less drive mounts

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 CR1280 is compatible with motherboards up to eATX , including ATX, Micro ATX, and mini ITX. 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.
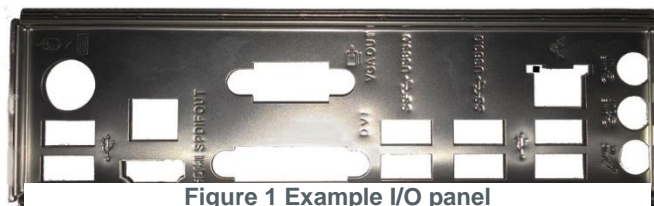

Figure 1 Example I/O panel

3. **Attach the motherboard to the case.**
   The CR1280 comes with most pre-installed standoff, it also adds a couple extra if you need to add them, Slide the motherboard into the I/O shield and then align the motherboards screw holes with the case standoff. Attach the motherboard to the standoffs with the provided motherboard screws.
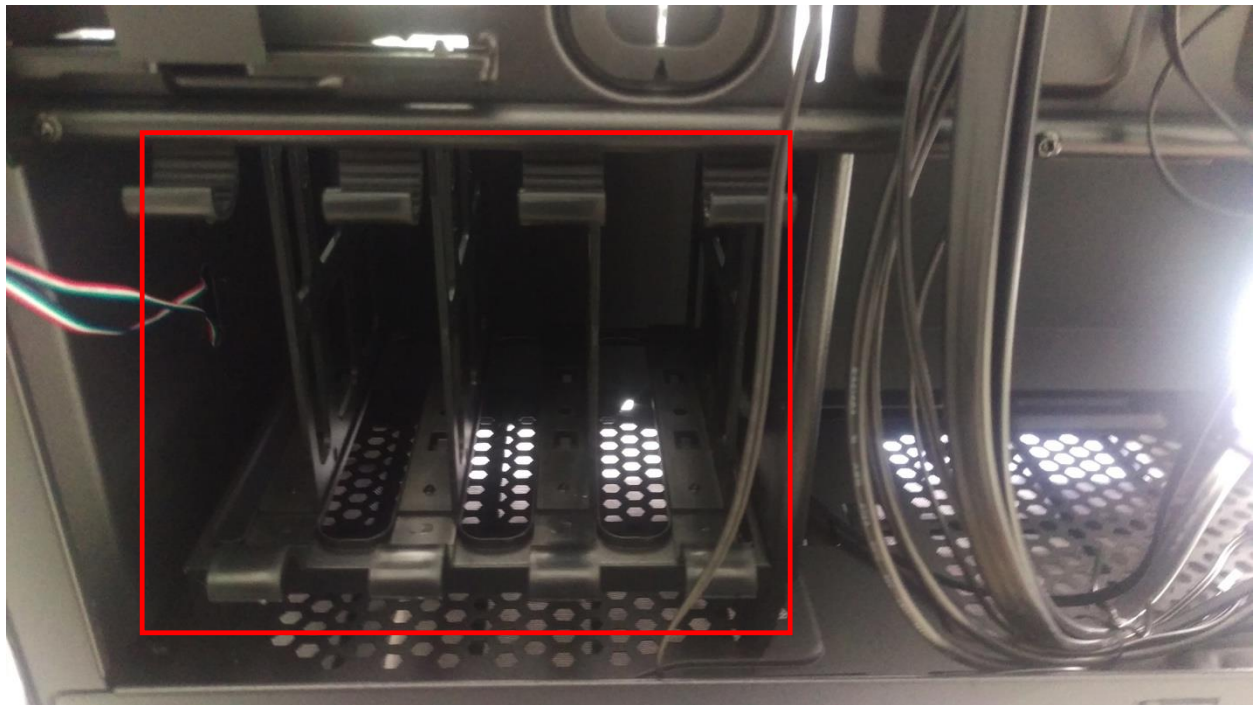
Install Hard Drives and SSDs

The CR1280 has four 3.5" drive bays and four 2.5" drive bays. These bays are located in the compartment under the motherboard, just in front of the PSU area

To install a 3.5" hard drive

There are 4 3.5" hard drive bays located directly in front of the PSU AREA, each Bay contains a HDD bracket that needs to be installed before sliding the Hard Drive back, .

1. Remove the bracket. And simply add the HDD, making sure the connector side is looking backwards directly to you.
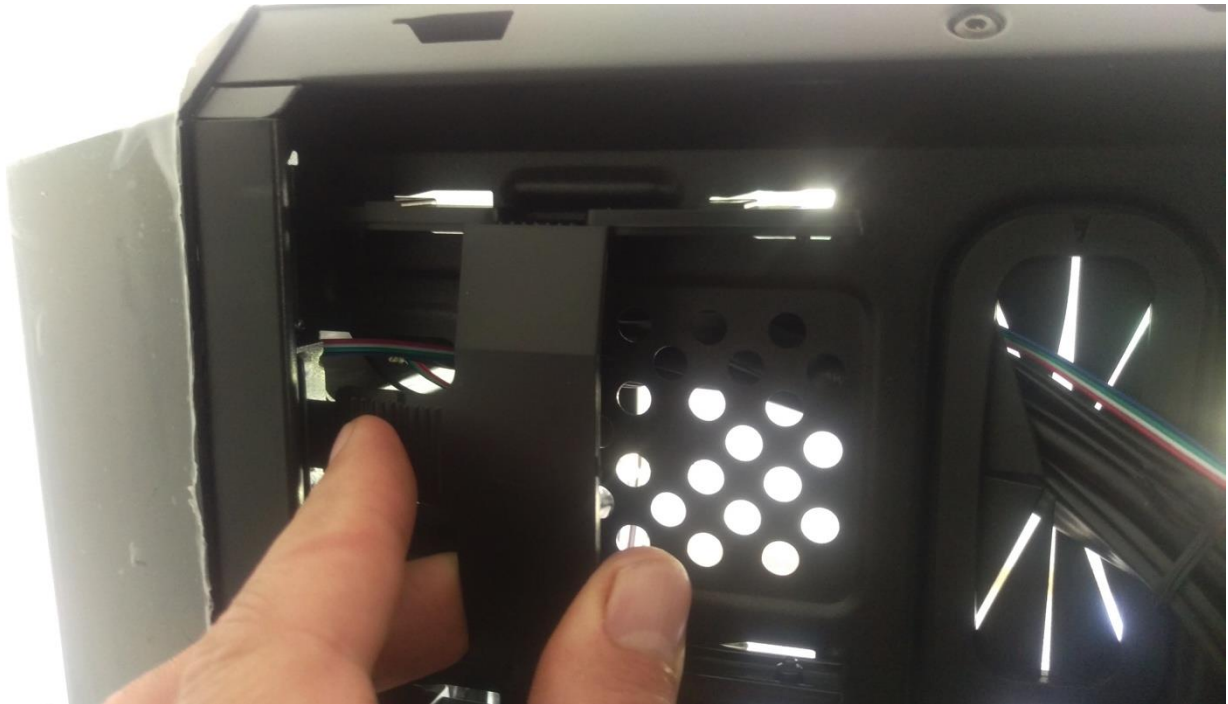

2. With the HDD Connector heading to your position slide it back until it is secured in the 3.5 HDD CAGE.
3. Connect the cables, both SATA cables (energy and data)

To install drives into the 2.5" mounts

The CR1280 case has 4 mounts for 2.5" drives such as solid state drives (SSD). The mounts are also Tool less.

To mount a 2.5 drive:

1. In the right side of the case, there is 4x 2.5 inch mounts compartments, place the 2.5" drives into each of the tool less brackets.

2. Slide it back to its original position.

Attach Cables

Connect the Front Panel Switches and LEDs

The CR1280 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	
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 CR1280 comes with two RGB 120mm fans—that are already connected to the RGB controller, use a 4pin Molex to power up the RGB controller There is two connectors RGB connectors available, meant for other RIOTORO RGB fans (not included) covered with a plastic Cap, this can be used to connect NEW RGB fans (sold separately) Tip: only RIOTORO compatible Fans are supported.

There is a exhaust fan that needs to be connected to the motherboard itself, and NOT to be connected to the RGB controller, doing so, will potentially set the fans out of sync, and the RGB lightning might not work until the non RIOTORO RGB fan is disconnected.

Note: The CR1280 includes mounts for several 120/140mm fans – 3 120/140mm Fans on the top , 1 x 120mm in the bottom (motherboard area) 2x 120/140mm Fans on the front,. It also support most Water cooling solutions in the market. Screws and rubber grommets are provided to allow you to add optional fans and radiators.

Install the Power Supply

The power supply unit (PSU) drive bay is located on the bottom of the case in a separate compartment.
1. Remove the thumb screws located on the opposite side were the motherboard area is located, 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.

Specifications

Motherboard support	E-ATX , ATX, Micro ATX, Mini ITX
Drive bays	- 4x 3.5" - 4x 2.5"
Front panel I/O	- 2x USB 3.0 ports - 2x USB 2.0 ports - 1x Headphone out - 1x Microphone in - RGB buttom - Fan Slow and Fast Buttoms
Expansion slots	8
Fans	Fans included - 2x 120mm front RGB PRISM intake fans. - 1x120mm exhaust fan. Additional fan mounting points.: - 1x 120mm Bottom - 3x120mm Top
Fan/radiator mount points	1 x 140 x 25mm or 38mm rad + push/ pull fan in rear 3 x 120 x 25 mm rad + push fan on top (full clearance) 2 x 120 rad or 2x 140 + push/ pull fan in front
PSU support	Standard ATX
Max. GPU length	400mm.
Materials	Steel, aluminum, plastic
Dimensions	478.1 x 250.72 x 577.50 mm

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