

RCK-203BR

Rackmount Chassis

User Manual



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Chapter 1 Getting Started

General Information

The RCK-203BR Rackmount chassis supports full-size SBC through 2U PICMG1.0/ 1.3 butterfly backplanes, and (2) 3.5" external SATA drives with Mobile rack, and (1) Slim Optical drive. The chassis has (2) 80mm replaceable high-speed ball-bearing fans, and supports PS2 or Mini-redundant power supply.

Product Specification

Construction	Heavy-duty steel
Drive bay	(2) 3.5" external HDD with Mobile rack, (1) Slim optical drive
Cooling fan	(2) 80mm replaceable high-speed ball-bearing fans
Switch	On/Off switch and Reset switch
Indicator	Power On/Off and HDD activity LEDs
Expansion	5 x full-height expansion slots
Dimension (W x D x H)	434 x 450 x 88 mm; 17 x 17.7 x 3.5 inches
Weight	NW: 7.4kg / GW: 10kg

Packing Checklist

2 x Wallmount bracket	4 x PSU screw
8 x Wallmount bracket screw set	4 x Fastener
4 x Ear bracket screw	8 x Backplane screw
4 x Slim DVD screw	2 x Fastener adhesive
2 x Top covers screw	4 x 3.5" HDD screw



Recommended Tools

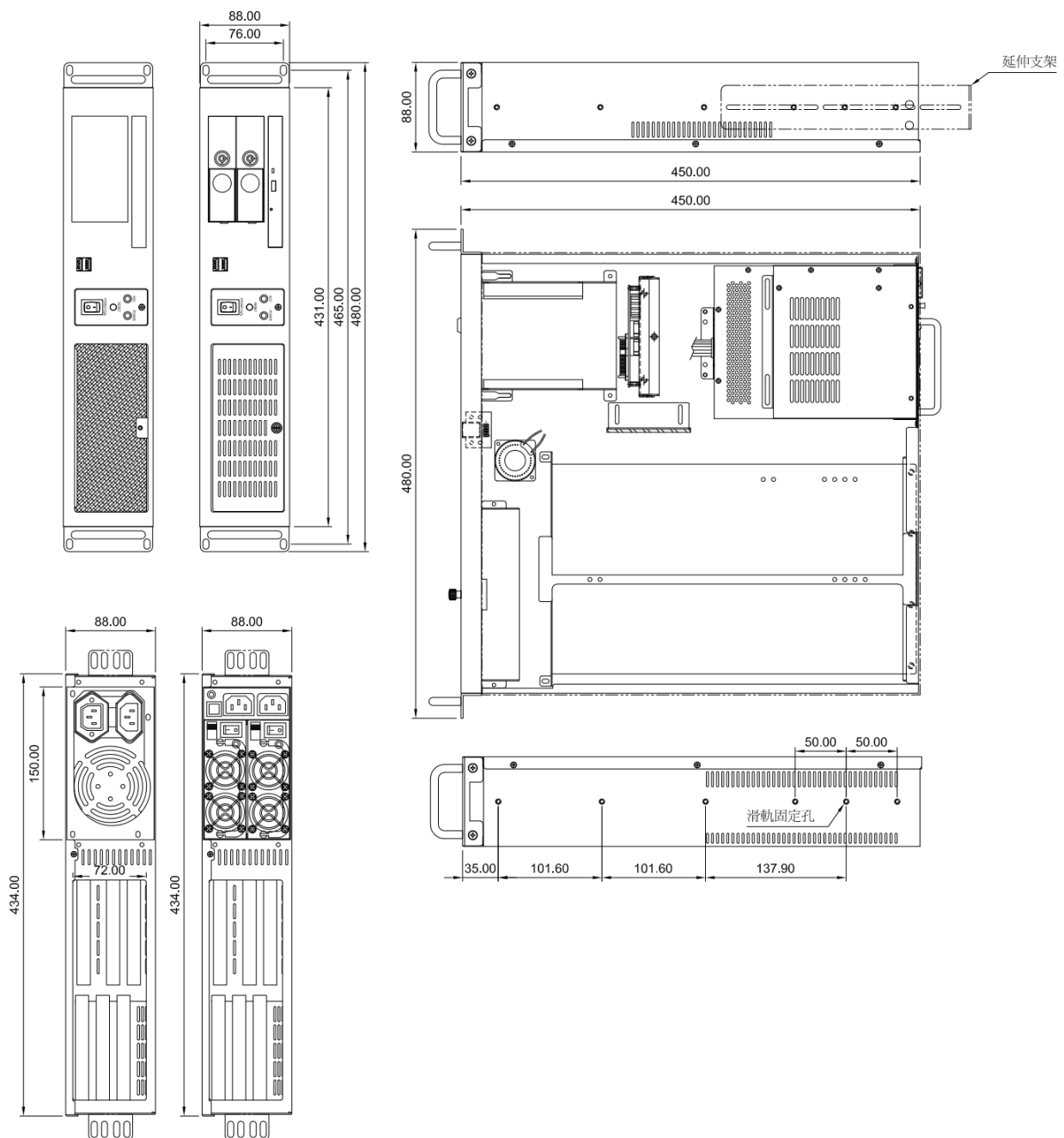
- Philips Head Screwdriver
- Flat Head Screwdriver
- Forceps (for pulling out jumpers and screws)

Recommended Working Environment

A flat anti-static work surface is required when assembling a complete system

Chassis Mechanical Drawing

Drawing with dimension in millimeter:



Chapter 2 Installation Guide

Unpacking the Chassis

The RCK-203BR is shipped in a plastic bag that is placed inside a cardboard box. The accessories are also shipped with the chassis. When you unpack the chassis you must:

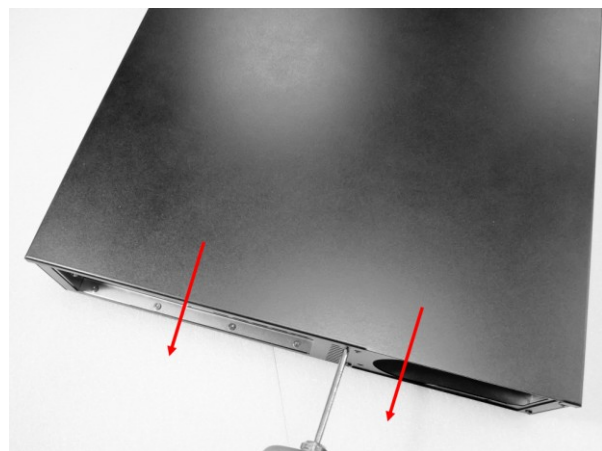
- Make sure all the accessories and components listed above are present.
- Make sure the chassis has not been damaged in anyway. The installation steps outlined above are described in detail below. Please refer to the relevant section(s).



Removing the top cover

The top cover is secured by a total of seven screws (two on each side and two on rear side of the chassis). To remove the top cover, please follow the steps below:

1. Remove all seven top cover retention screws
2. Slide the cover toward rear of the chassis, then lift the cover off the chassis



Installing the Power Supply Unit

Once the top cover have been removed, a user supplied PSU can be installed. The PSU is installed at the rear of the chassis and secured to the chassis with four retention screws. To install the PSU, please follow the steps below:

1. Correctly position the PSU at the rear of the chassis with the power switch and cable socket both facing outwards. Secure the PSU by inserting four retention screws through the rear of the chassis



- Compatible Power Supply Unit models are available in Appendix A.

Installing the Hard Disk Drive

The RCK-203BR chassis supports two 3.5" external HDD with Mobile rack. To install the drives, please follow the steps outlined in the sections below.

Open the lockable Mobile rack with the supplied key from the accessory box. Gently pull the 3.5" drive tray from the Mobile rack by its handle



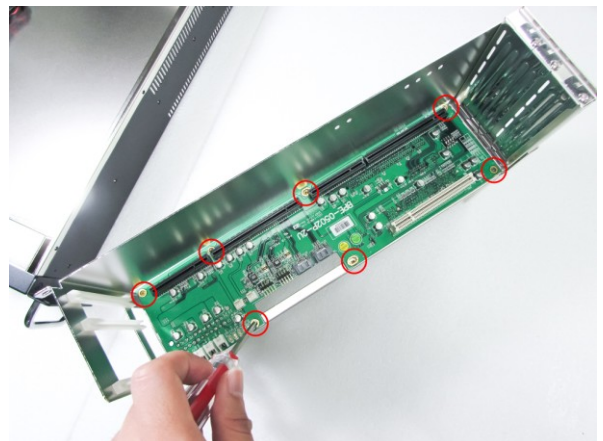
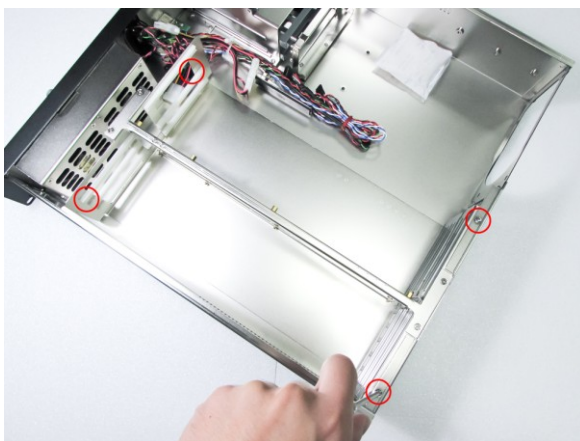
1. Carefully insert the 3.5" HDD into the drive tray, and secure the HDD by inserting six retention screws (three on each side) through the sides of the drive.
2. Gently the 3.5" drive tray back into the Mobile rack, and push the handle on the drive bay until it locks



Installing the Backplane

To install the backplane please follow the instructions below:

1. Remove the four screws securing the backplane bracket and pull upside to remove from the chassis
2. Place the backplane to the bracket, and insert the screw to secure the backplane to the bracket

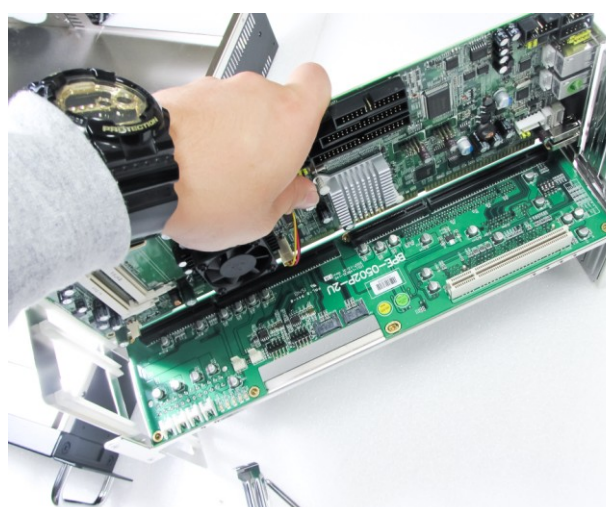
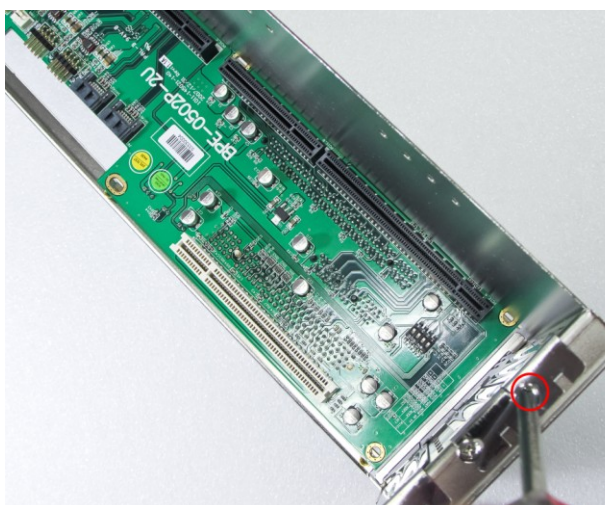


- Different backplane may have different Screw hole positions, please refer to their own User manual for details.
- Compatible backplane models are available in Appendix B.

Installing the CPU Card

To install the CPU Card please follow the instructions below:

1. Remove the rear I/O slot bracket by removing the screw
2. Insert the CPU Card to the backplane socket and secure with original screw from I/O slot bracket



3. Place the backplane bracket with CPU card inside back to the chassis, and secure with four screws

- Please make sure to disconnect the Power Supply before installing the CPU Card.
- Do not turn on power during the CPU card installation
- Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, use a grounded wrist strap designed to prevent static discharge

Appendix A Power Supply Unit

Compatible Power Supply Units are listed in the table below:

Model number	Wattage	Type	Dimension (W x H x L)
SS-400ES	400W	Single output	150 x 140 x 86mm
SS-600ES	600W	Single output	150 x 140 x 86mm
SS-400R8P	400W	Redundant	150 x 200 x 86mm
R4B-500G1V2	500W	Redundant	150 x 200 x 86mm

Appendix B Motherboard

Compatible AICSYS motherboards are listed in the table below:

Model number	Type	PCI	PCIe	ISA
BP-0602P-2U	Full-size PICMG 1.0 Backplanes	2	N/A	2
BP-0604P-2U	Full-size PICMG 1.0 Backplanes	4	N/A	N/A
BPE-0502P-2U	Full-size PICMG 1.3 Backplanes	2	2	N/A
BPE-0605E-2U	Full-size PICMG 1.3 Backplanes	N/A	5	N/A

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