

Gooxi

RMC1104-670-HS



User Manual

Version 1.0

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Foreword

This manual is about the installation and use information of RMC1104-670-HS chassis that provided to professional system integrators and personal computer technicians. The installation and maintenance should be conducted by experienced technicians only.

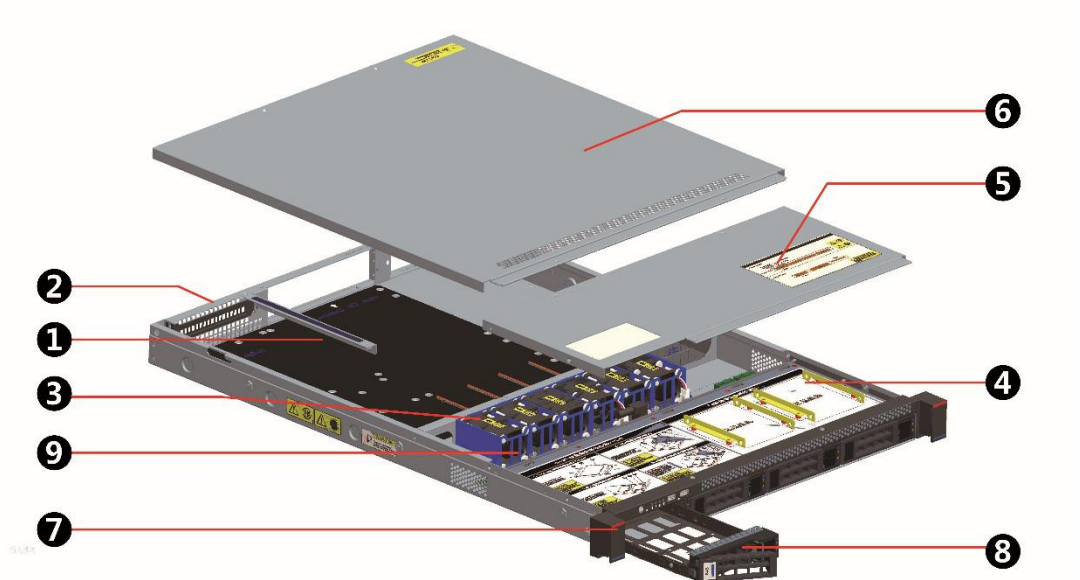
Gooxi RMC1104-670-HS the fourth generation of server chassis is designed based on standard 2U server and can be assembled into common computing server, storage server, Internet bar server, database server, VOD storage server, HPC server, and so on. The server chassis is different from ordinary desktop chassis that pays more attention to appearance design, as it focuses on the quality and content. Gooxi RMC1104-670-HS server chassis uses imported first-class SGCC galvanized steel, and possessed with the characteristics of fingerprint resistance, corrosion resistance, heat resistance, heat transfer and thermal reflectivity, formability as well as weldability.

In addition, taking into account the higher stability requirements of the server during usage, Gooxi RMC1104-670-HS server chassis has excellent heat dispersion. To be specific, the heat dissipation channel is reasonably designed, which can take away a large amount of heat in the chassis to ensure the stable operation of the server.

The scalability is an important factor to determine whether the server chassis design is reasonable. Gooxi RMC1104-670-HS server chassis has stronger scalability than ordinary chassis, such as: hard disk expander, peripheral expander, etc.

Chapter 1 Chassis Overview

1.1 Chassis Structure



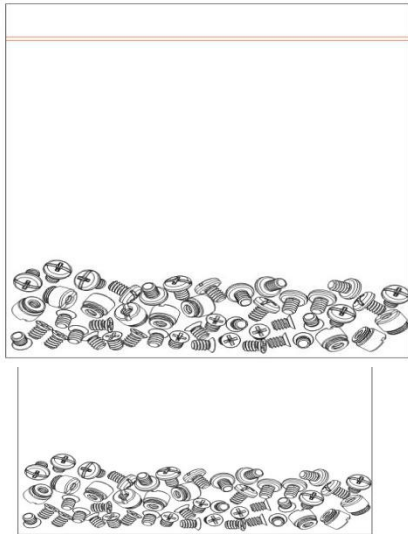
- (1) Base
- (2) Rear window
- (3) Ventilation wall
- (4) Hard disk module
- (5) Front cover
- (6) Top cover
- (7) Handle
- (8) Hard drive bracket
- (9) Fan

1.2 Rear Window Construction



- ① Power site
- ② I/O washer position
- ③ Expansion slot

1.3 Materials Package



- 12 pieces of #6-32*5mm countersunk screws are used for fixing hard disks and brackets.
- 10 pieces of active studs with the total height of 8mm are used to install the motherboard.
 - 16 pieces of #6-32*6mm cross recessed pan head screws are used for fastening the motherboard

and power supply.

- 0~3 SAS - label.
- One 100 * 120 * 0.045mm PE valve bag

1.4 Chassis View

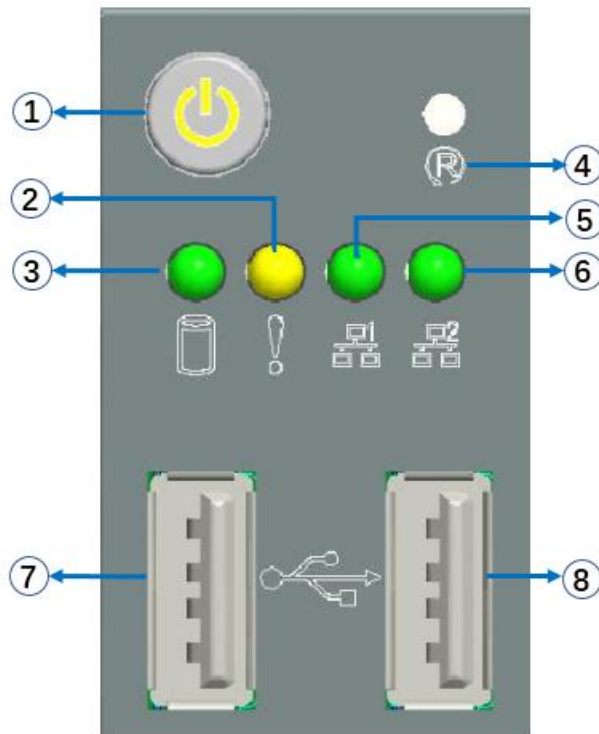
Front view:

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Rear view:

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1.5 Related Indicators of Chassis Panel

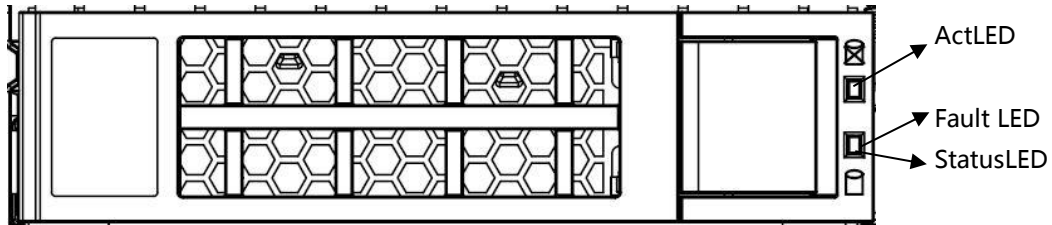


The above picture shows the front panel buttons and LED indicators; each button or indicator light has its own function and status description that are described in the following table:

LED Status Description			
No.	Picture	LED Appearance	Description
①		The green light is on	The device is on
②		The yellow light is on	Alarm indication, including system alarm, fan alarm, power alarm, etc.; the specific can be viewed through IPMI management software
③		Green light flashes	The system is running normally
④		Reset	The button is used to restart the server
⑤		The green light is on	Internet access 1 connection is normal
⑥		The green light is on	Internet access 2 connection is normal

⑦、⑧		USB interface	2*USB2.0 interface
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1.6 Introduction to Hard Disk Indicator

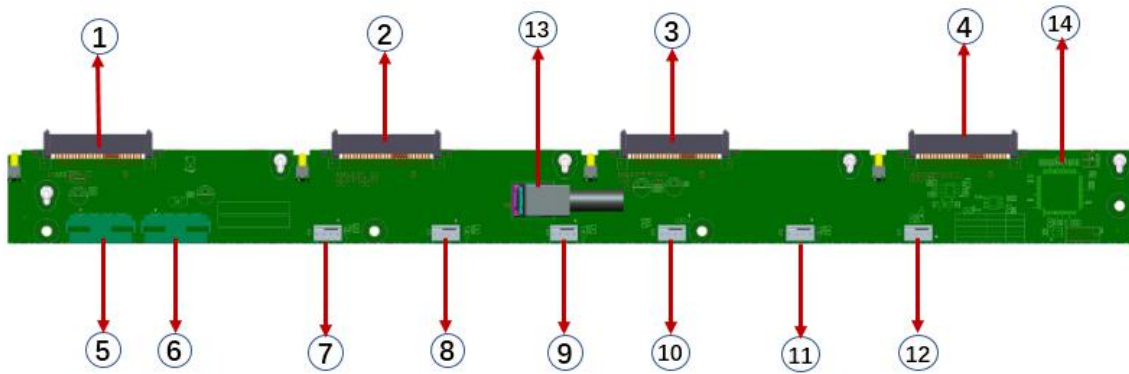


- 1、 Act LED
- 2、 FaultLED
- 3、 StatusLED
- 4、 LED description is as follows:

Function	Act LED	Fault LED	Status LED
Hard disk at site	ON	OFF	OFF
Hard disk activity	Flash 4Hz/s	OFF	OFF
Hard disk location	ON	Flash 4Hz/s	OFF
Hard disk fault	ON	OFF	ON
RAID reconstruction	ON	OFF	Flash 1Hz/s

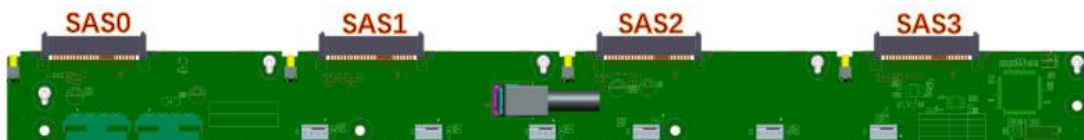
1.7 Brief Introduction to Backplane

The standard configuration of Gooxi backplane model is RMC1104-BP-12G, and the specific description is as follows:



RMC1104-BP-12G			
Corresponding site	Interface / jumper / slot	Corresponding site	Interface / jumper / slot
1、2、3、4	4 29PINSAS output interfaces	7、8、9、10、11、12	Sockets of 4 temperature control fans
5、6	2 ATX power input	13	1 ↑ SFF-8643 12Gb SAS interface
14	CPLD decoding chip		

1.8 Introduction to the Output Interface of Backplane Hard Disk



Chapter 2 Easy Installation Instruction

2.1 Introduction to the Disassemble Steps of Gooxi 1104 Chassis Cover



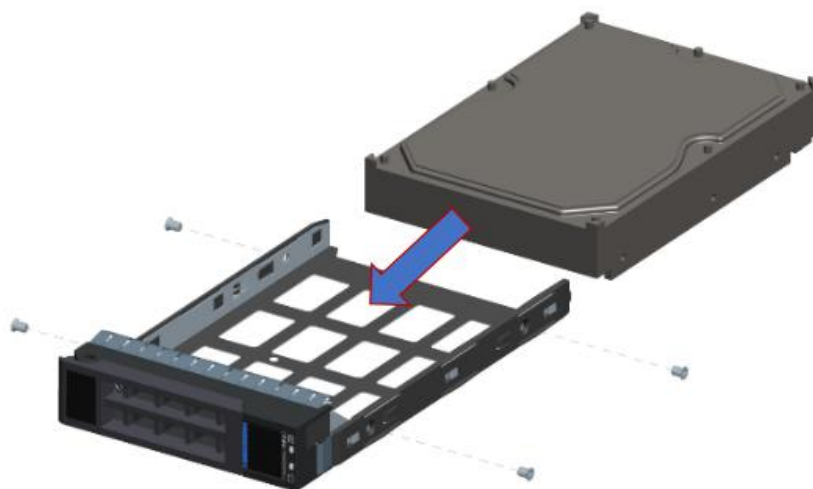
- (1) Unscrew the top cover screws
- (2) Press the button of chassis back cover
- (3) Push the back cover
- (4) Pull the back cover

2.2 Introduction to the Insert and Plug Steps of Gooxi1104 Chassis Hard Disk

(1) Press the button to pull out the hard disk from the hard disk site.



(2) Install the 3.5-inch hard drive to the hard drive bracket according to screw holes, as shown in the figure below.



(3) The installed hard disk is shown in the following figure:

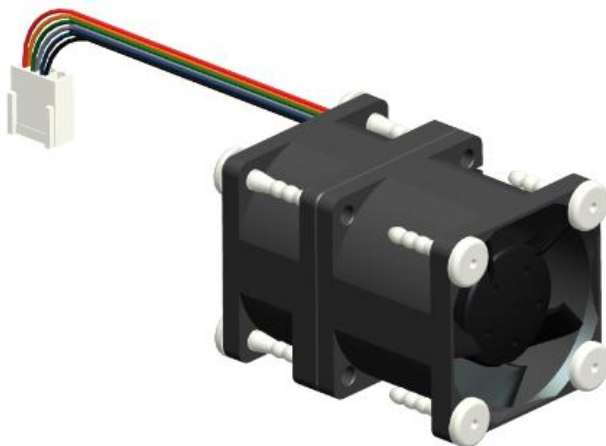
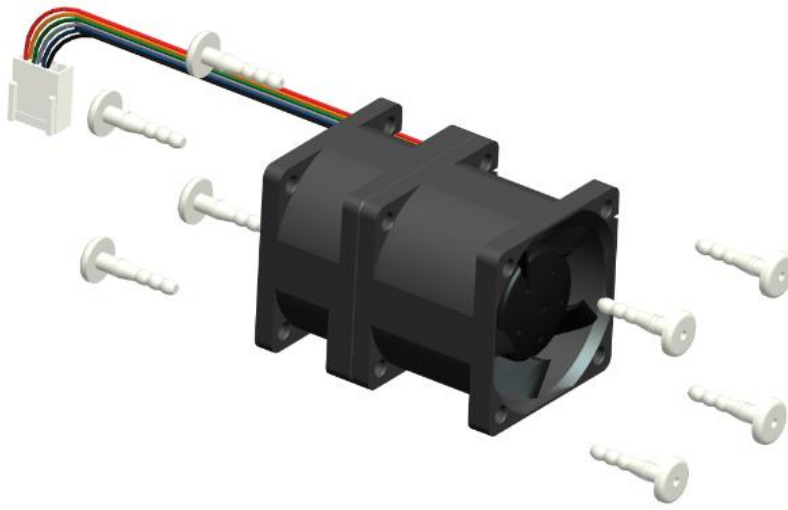


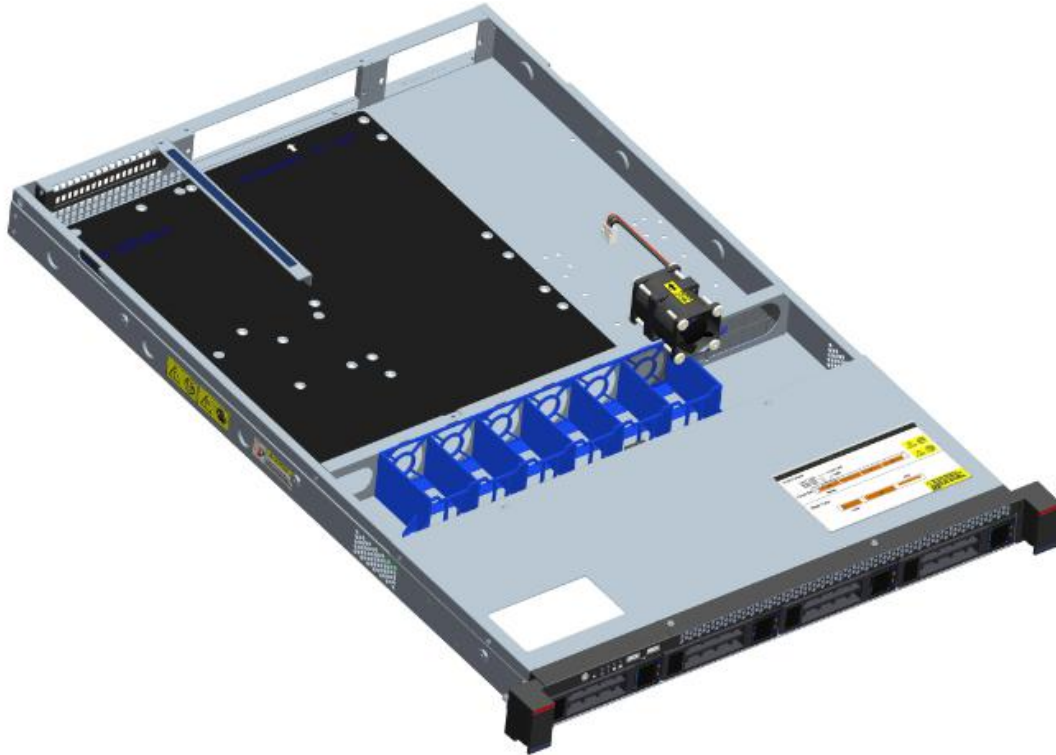
(4) Insert hard disk to the chassis, and close the switch. As shown in the following figure.



2.3 Introduction to the Installation Steps of Gooxi1104 Chassis Fan

(1) Install 8 soft nails to the fan as shown in the figure below

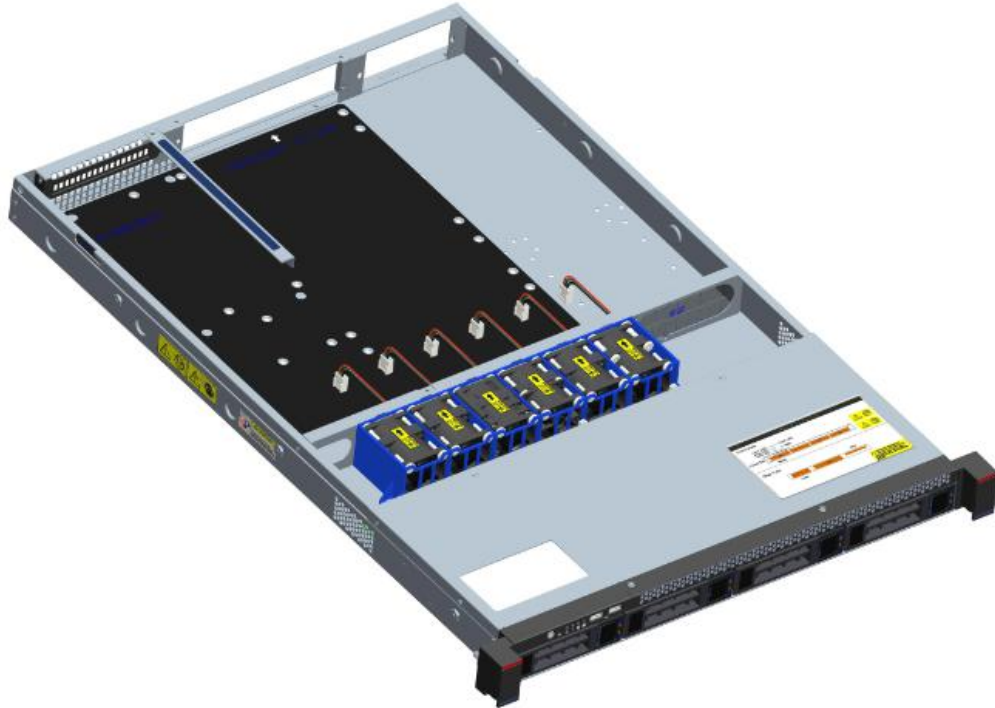




(1) Complete the insertion, respectively.

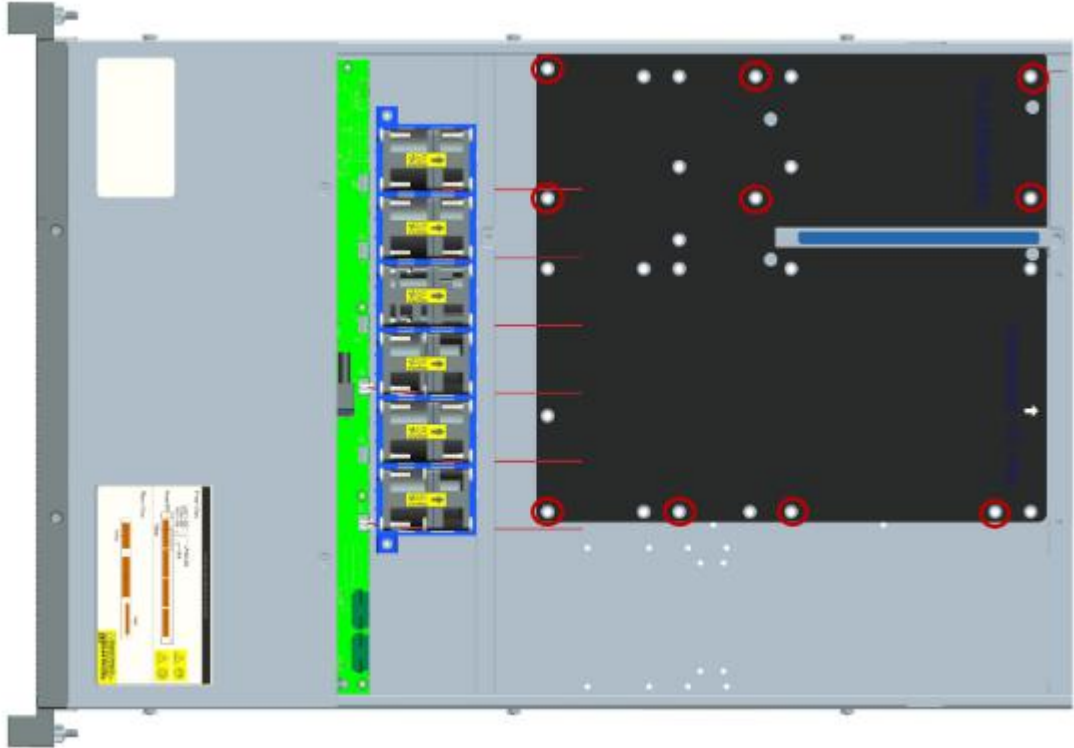


(2) The final installation effect:

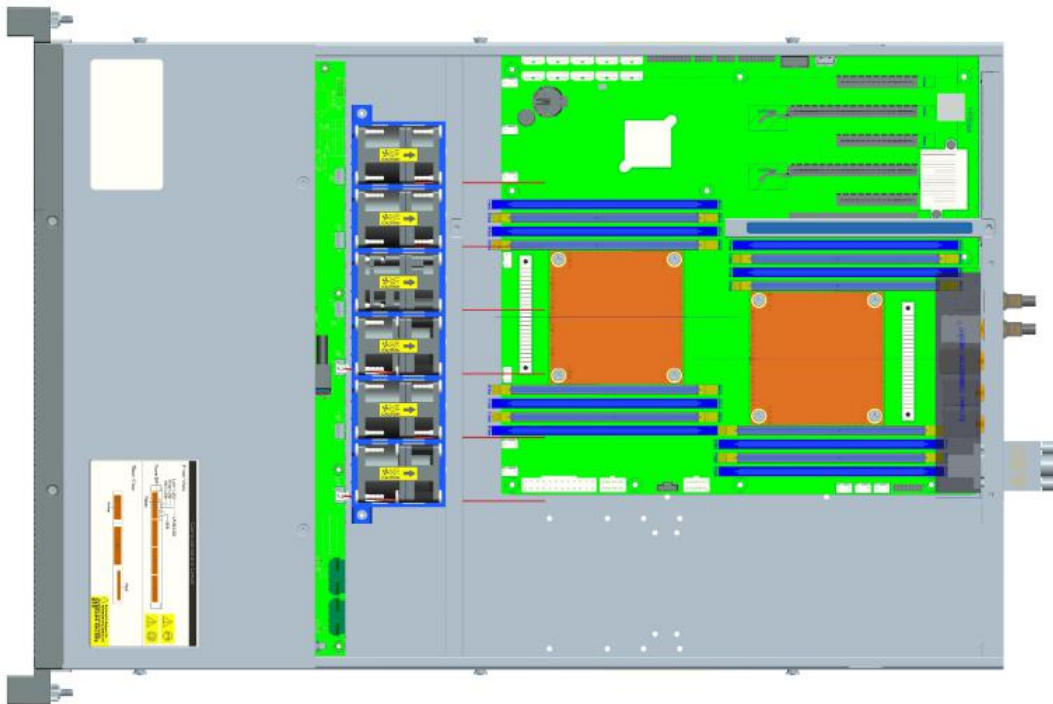


2.4 Introduction to the Installation Steps of Motherboard on Gooxi 1104 Chassis

(1) Open the chassis, and place insulation pad according to the correct orientation. Based on the hole of motherboard screw, motherboard active stud (8mm height) is installed at the corresponding position on the insulation pad. As shown in the figure below:



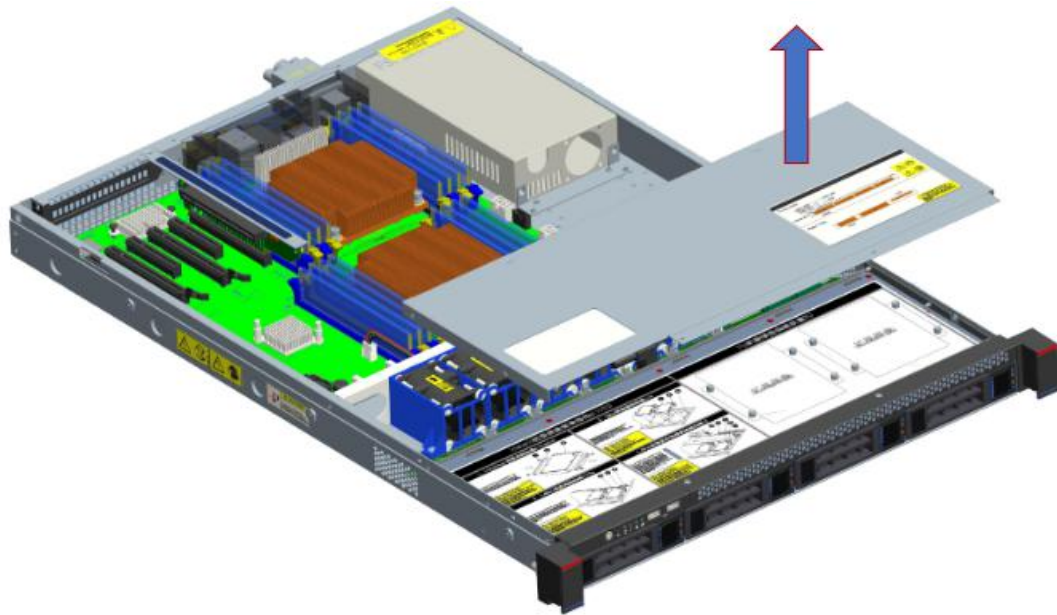
(2) After the motherboard active stud (8mm height) is installed, place the motherboard into the chassis and fasten motherboard screw at the hole site. As shown in the figure below:



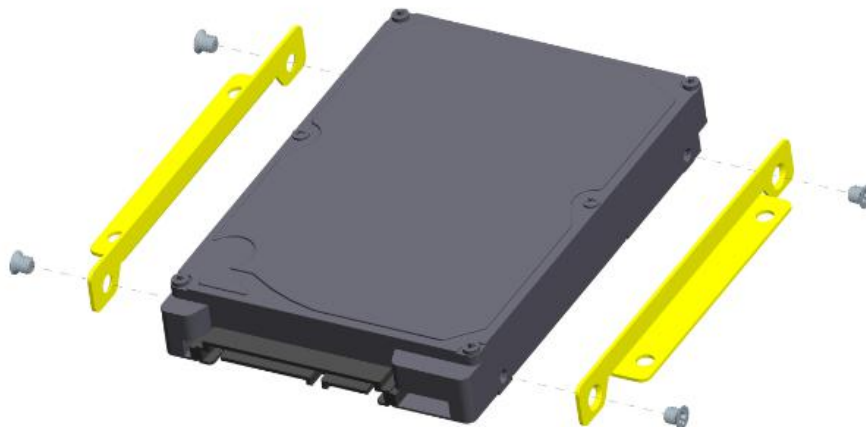
2.5 Introduction to the Installation Steps of Expanding Hard Disk on Gooxi 1104 Chassis

2.5.1 Installation Steps of Two 2.5-inch Non-Hot Swappable Hard Disks

(1) Remove the screws marked at the following figure, lift the top cover and remove it. As shown in the figure below:



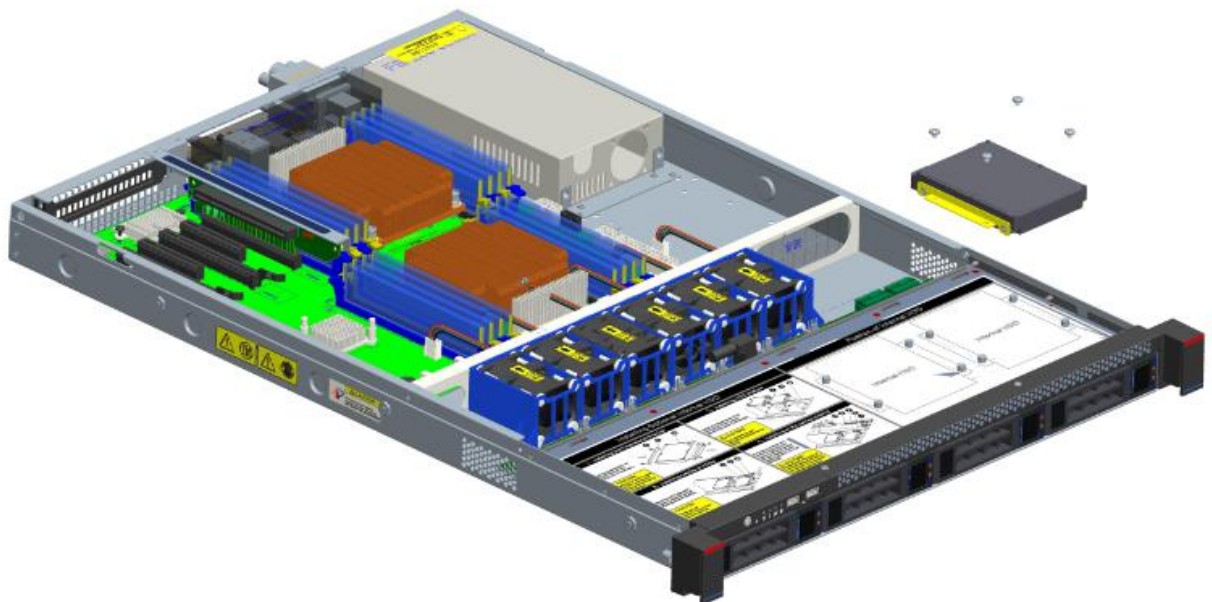
(2) Fix the two 2.5 inch hard disks with expandable bracket, respectively



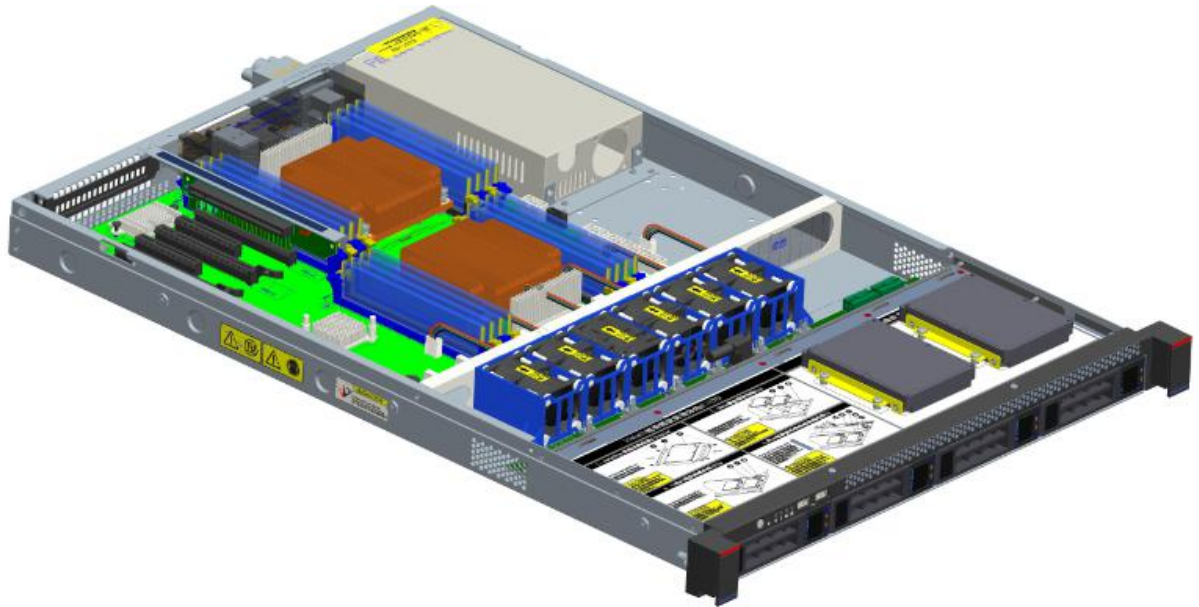
(3) The final installation effect is as follows



(4) Install the expandable hard disk to the chassis, as shown in the figure below:



(5)The final installation effect of expandable hard disk shown in the figure below



(5) Restore the front cover when the expandable hard disk is finished installation

Chapter 3 Chassis Parameters

Basic Parameters	
Chassis style	Rack mount
Chassis structure	1U
Applicable motherboard	EEB(12*13)/CEB(12*10.5)/ATX(12*9.5)/Micro ATX
Supported motherboard brands	Gooxi、Intel、ASUS、SuperMicro、TYAN、MSI、GIGABYTE, etc
Power type	Single charge and 1+1 redundant power
Number of supported power supplies	1
SGP10	Support
Backplane	12Gb/s SAS data backplane
Supported hot-swappable hard drives	Supportive, compatible with SAS and SATA drives
Supported hot-swappable hard fans	Support
Hard disk site	Four 3.5-inch (or 2.5-inch) non-hot-swappable hard disk sites; two optional 2.5-inch non-hot-swappable expandable sites
Hard disk shockproof system	Hard disk bracket is designed with EMI shrapnel. The unique shockproof fan design can reduce the resonance between the fan and hard disk without affecting the I/O speed of hard disks.
Cooling system	Five 4056 fans are the standard configuration
Windshield	Optional configuration
Intelligent control of temperature	Support
Expanded card site	One full-height PCI-E expandable card site
Supported rails	Optional
Apparent Parameters	
Front panel interface	2 USB, 1 on-off key, 1 restart key, 1 hard disk indicator, 1 system failure light, 2 network indicators
Free screws dismantle	Support
Fixed mode of cabinet	Ordinary
Configuration parameters	
Product material	Imported SGCC (galvanized steel sheet), ABS panel and punching net
Chassis dimension	640*433*43.5mmmm(Depth * width * height)
Chassis weight	7.3kg

Package dimension	902*591*183mm(Length * width * height)
Overall gross weight	9.7KG
Safety certification	CE、FCC、RoHS

Note: This manual is a general instruction of RMC1104-670-HS series. Specific parameters of each type please refer to the chassis detailed parameters.