

## FWA-6510 H/W Installation

APPROVALS			
Name (printed)	Title	Signature	Date



HISTORY

Revision	Date	Person	Description
V1.0			

**CONTENT INDEX**

1.	Hardware installation Introduction.....	4
1-1	Open Chassis cover .....	4
1-2	CPU & heat-sink Installation.....	5
1-3	Memory module installation.....	9
1-4	Extend cable & module installation .....	11
1-5	Riser card installation .....	13
1-6	Close Chassis Cover.....	15
1-7	HDD and HDD tray installation.....	16
2.	Front Panel connector Introduction .....	18
2-1	RJ45 connector introduction.....	18
2-2	LED, USB and power button introduction.....	19

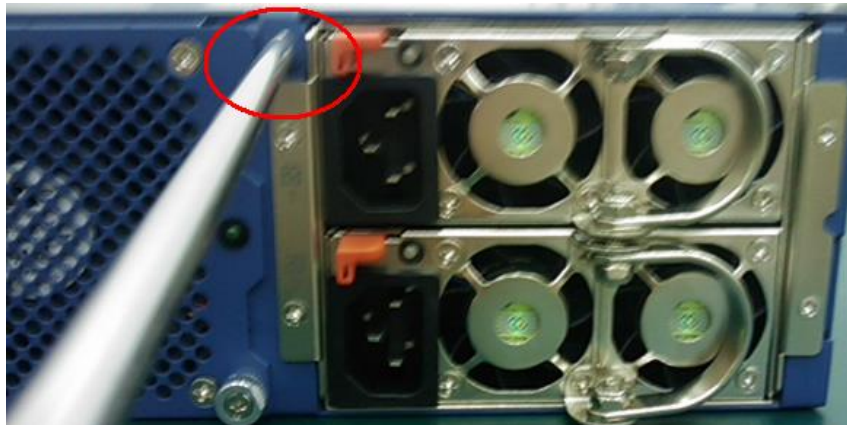
## 1. HARDWARE INSTALLATION INTRODUCTION

### 1-1 Open Chassis cover

1. Kindly use screwdriver to unlock 2 side screws & chassis rear screw.

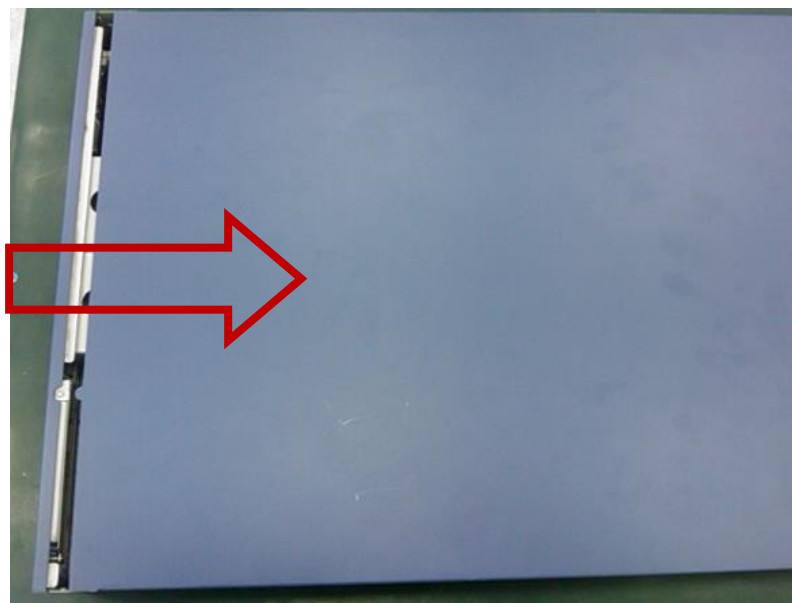


Side screw



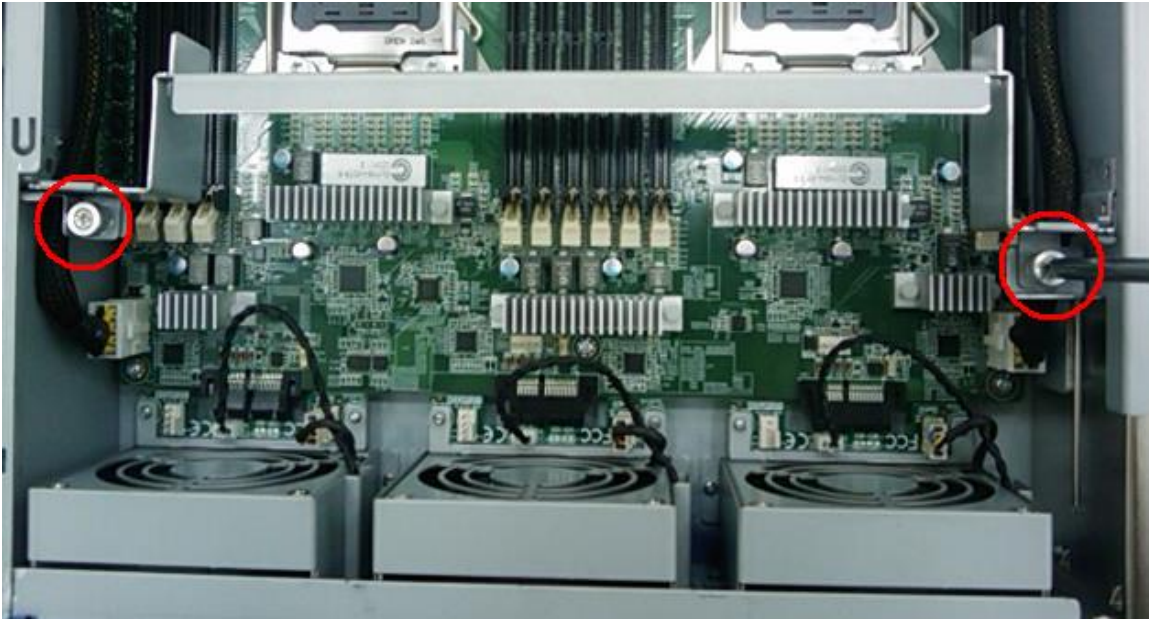
Rear screw

2. Kindly push top cover back about 1.5cm, and pick up top cover, it may remove FWA-6510 Chassis cover

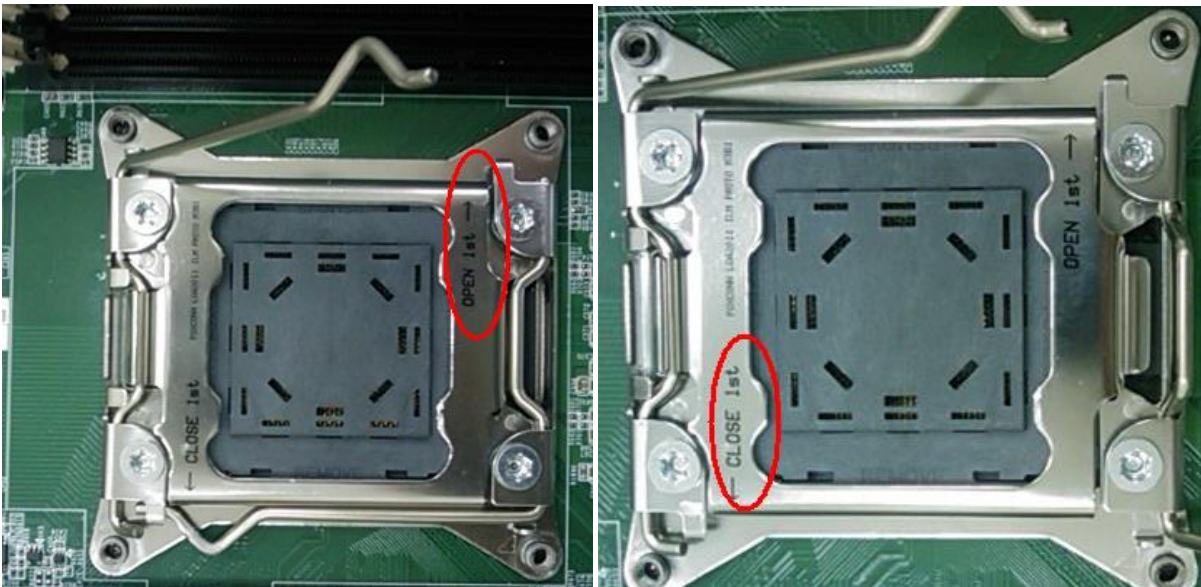


## 1-2 CPU & heat-sink Installation

1. Kindly unlock FAN duct's 2 screws



2. Kindly pull a "OPEN 1st" lever of CPU socket , pull another lever of CPU socket and pull back load plate



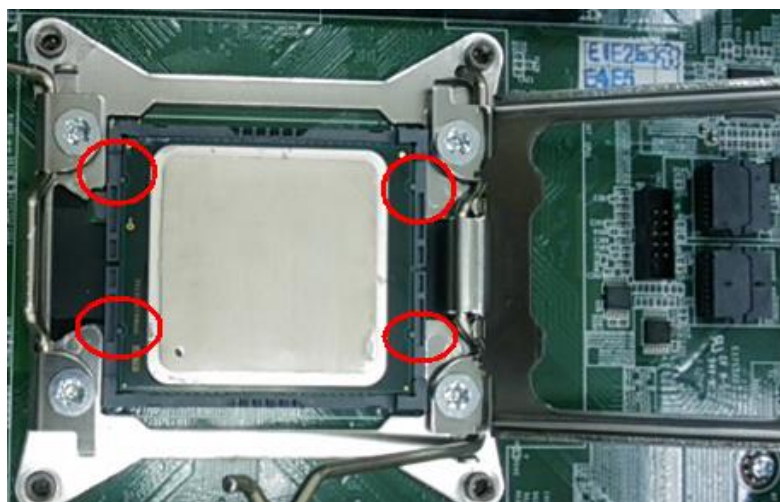




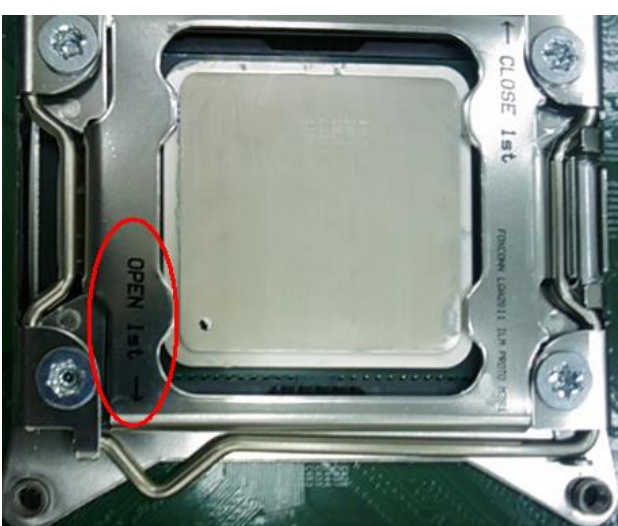
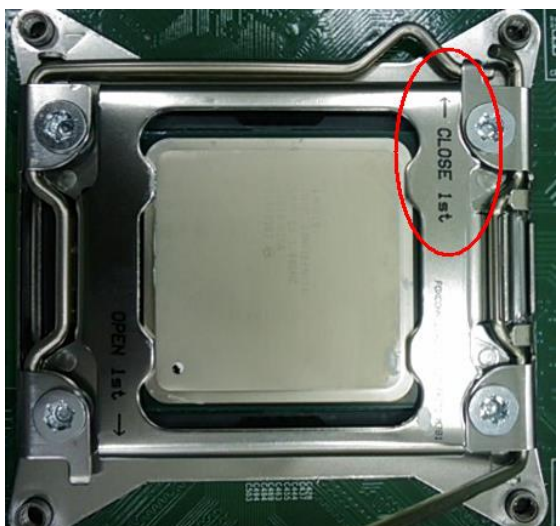
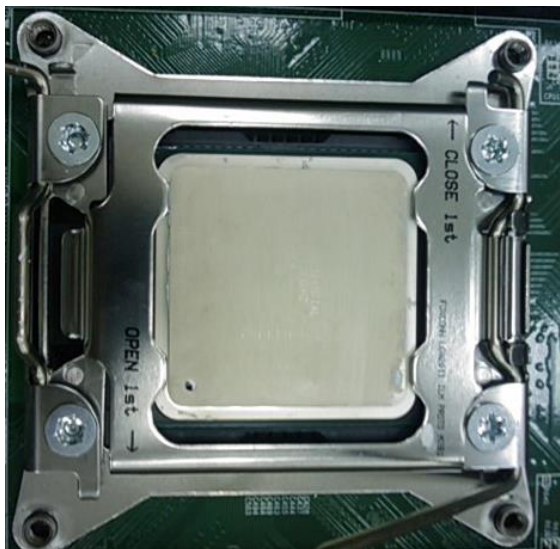
3. Kindly remove a protected cover from socket.



4. Kindly put CPU on the socket, and please checks CPU's gaps and socket's prominence, please don't put wrong



5. Kindly lay down load plate; close a “close 1st” lever of CPU socket, and close another lever of CPU socket



6. Kindly smear the HEAT SINK COMPOUND on CPU well mixed



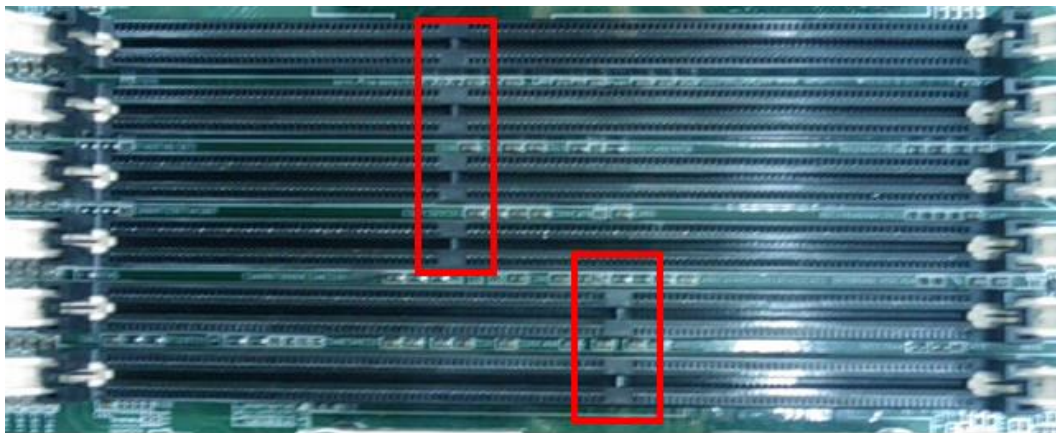
7. Please use screwdriver to fix heat-sink module and please follow diagonal to fix screw.





### 1-3 Memory module installation

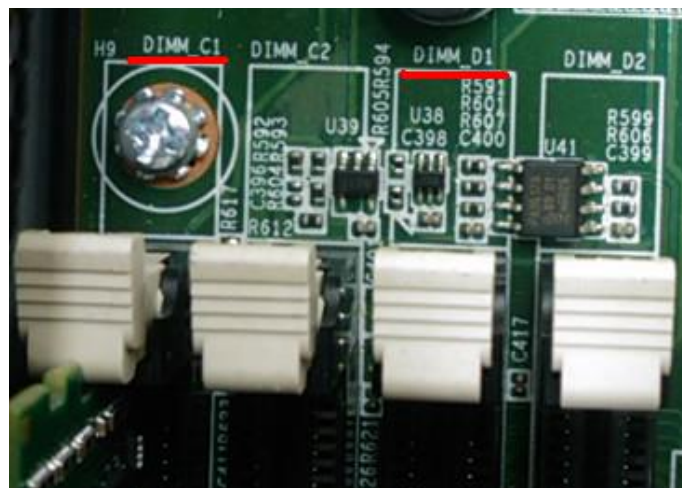
1, kindly installs DDR3 ECC+REG RAM module on the socket, and please checks RAM gaps and socket's prominence.

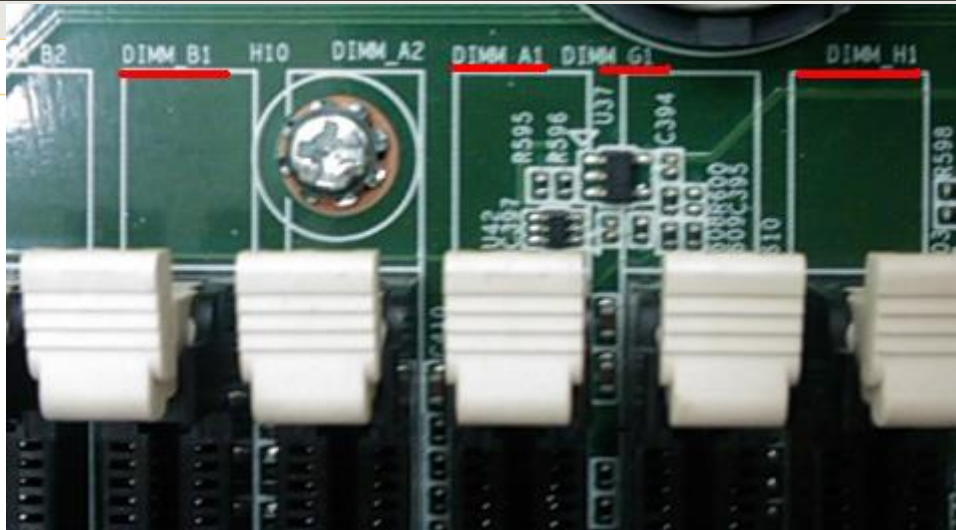


2. When customer installs 2 CPU in system, **the minimum RAM requirement is 4 PCs, and it needs to install in A1/C1/E1/G1 DIMM socket.**

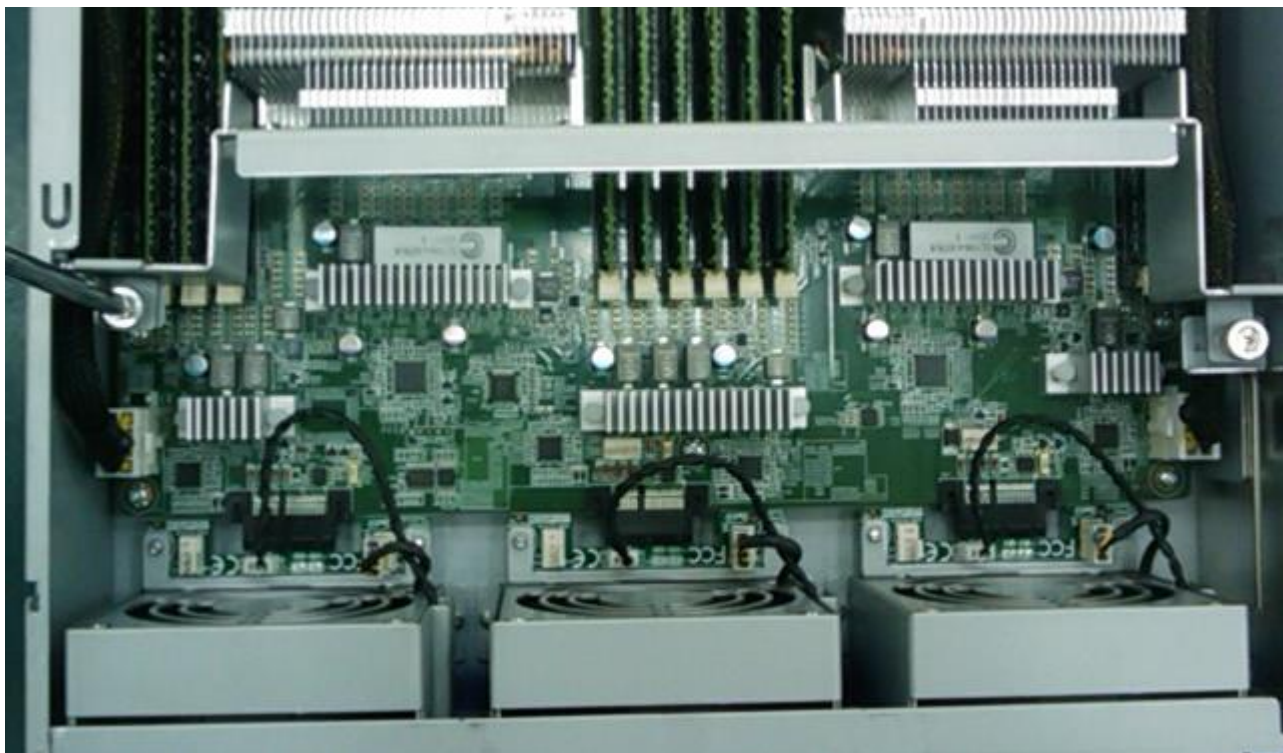
3. If customer installs CPU in FWA-6510, A CPU needs to install in CPU socket 1 , **the minimum RAM requirement is 2 PCs, and it needs to install in A1/C1 DIMM socket.**

4. When customer needs to install more RAM module in system; recommending RAM installation sequence is A1/B1/C1/D1/E1/F1/G1/H1, and then A2/B2/C2/D2





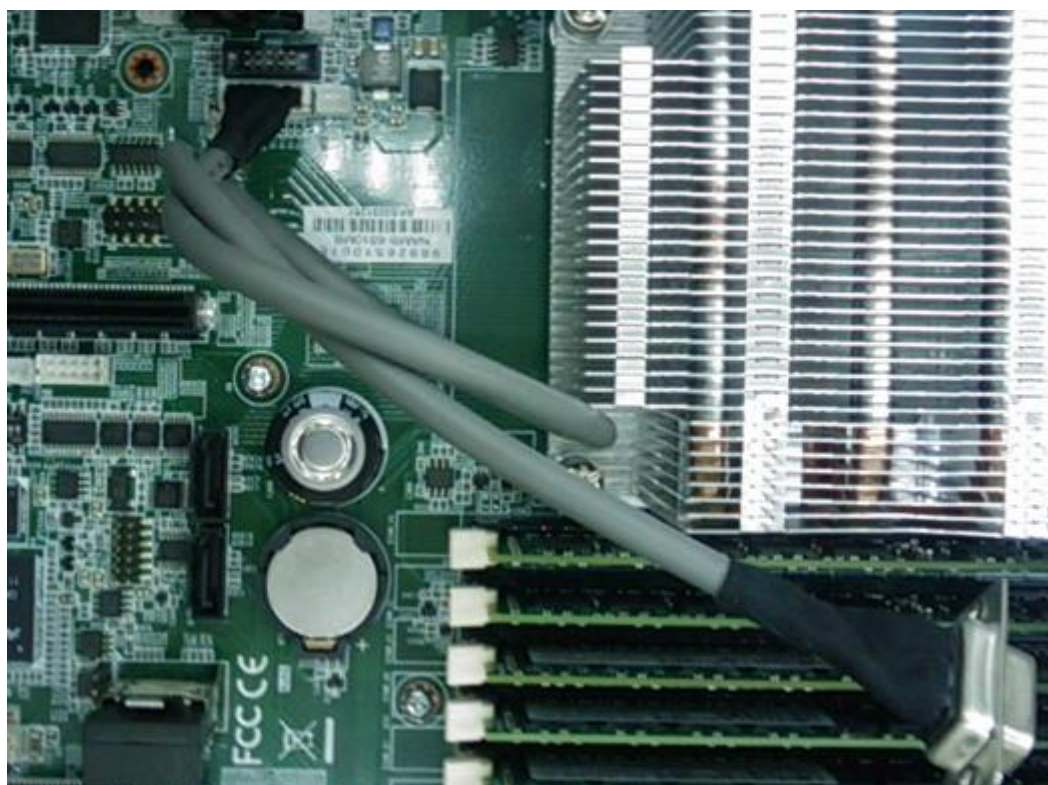
3. When CPU & Memory installs finish, kindly install FAN duct in chassis.





## 1-4 Extend cable & module installation

1. If customer needs to use FWA-6510 VGA function, kindly install VGA cable (P/N: 1700019367) into **CN15**



2. Kindly covers & don't close chassis cover, and pull out VGA cable from chassis when customer uses FWA-6510 VGA function.



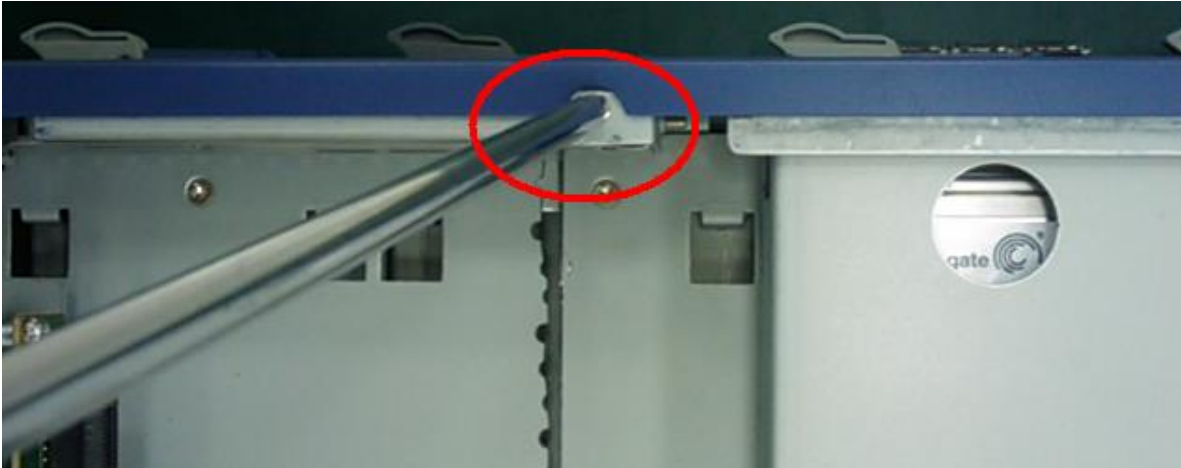
3. If customer needs to debug system boot issue, please install "Port80 module"(option) into **CN 9**



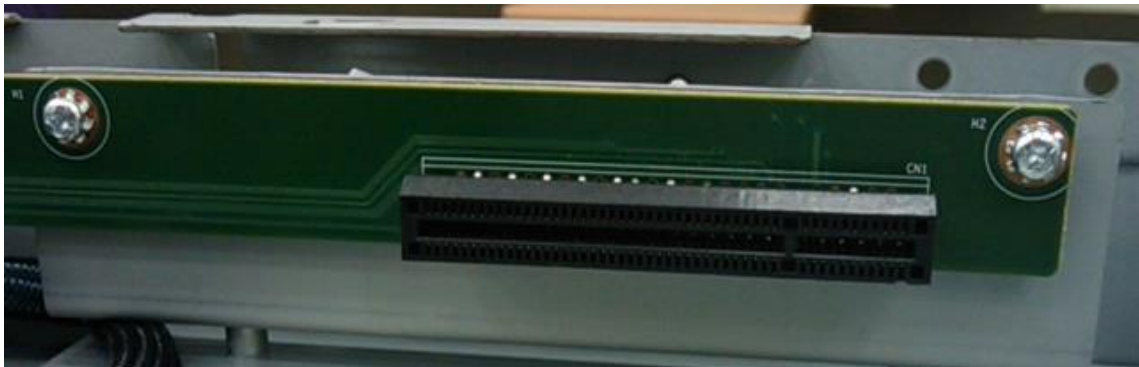


## 1-5 Riser card installation

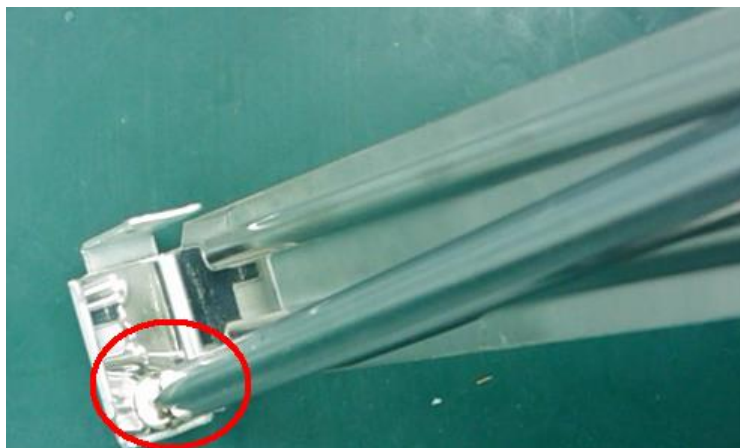
1. Kindly use screwdriver to unlock front plate's screw and remove front plate from Chassis



2. FWA-6510 Riser card only support PCIe X1/X4/X8 riser card, Please don't install PCIe X16 riser card



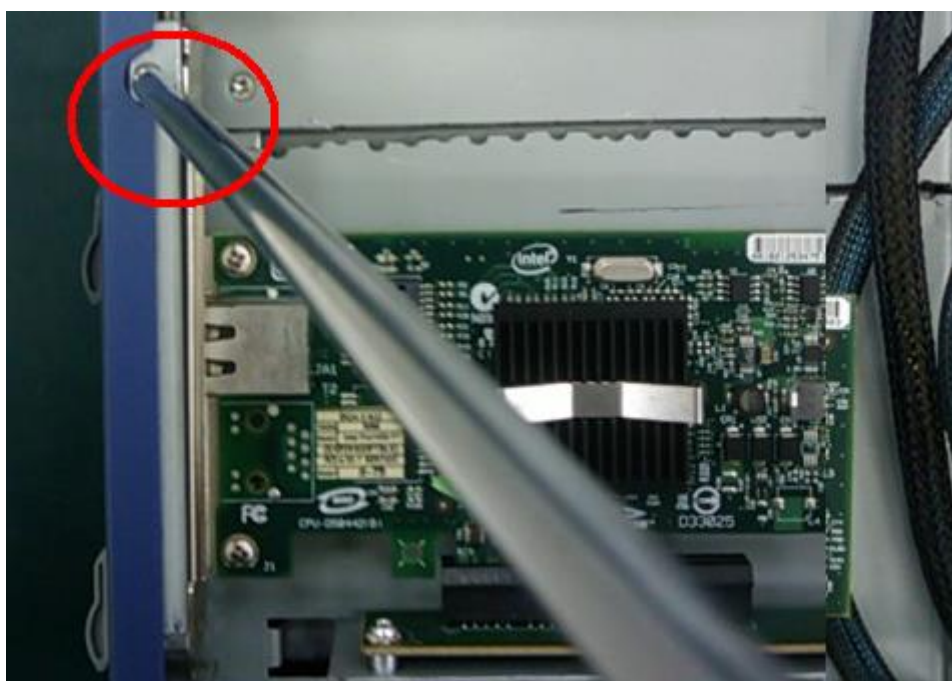
3. Kindly use screwdriver to unlock plate's screw, and remove IO card holder.



4. Kindly use screwdriver to lock riser card and IO card holder



5. Kindly use screwdriver to lock riser card in FWA-6510 chassis



## 1-6 Close Chassis Cover

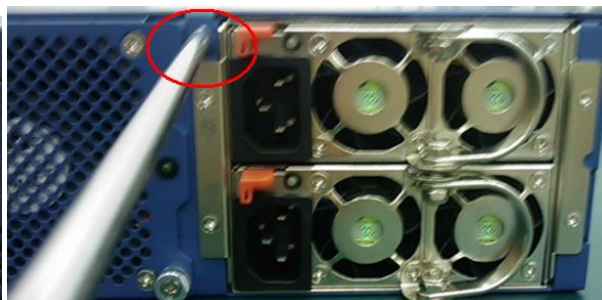
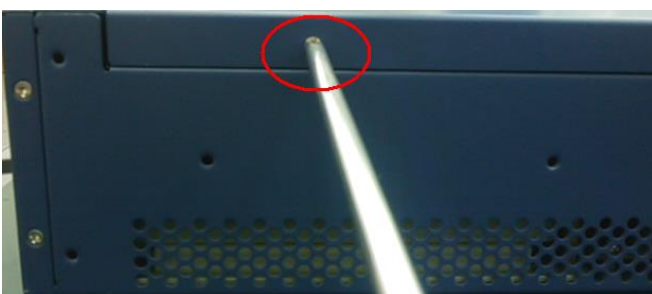
1. FWA-6510's cover has 4 short posts,



When user has to cover on top cover, short posts need to place in track



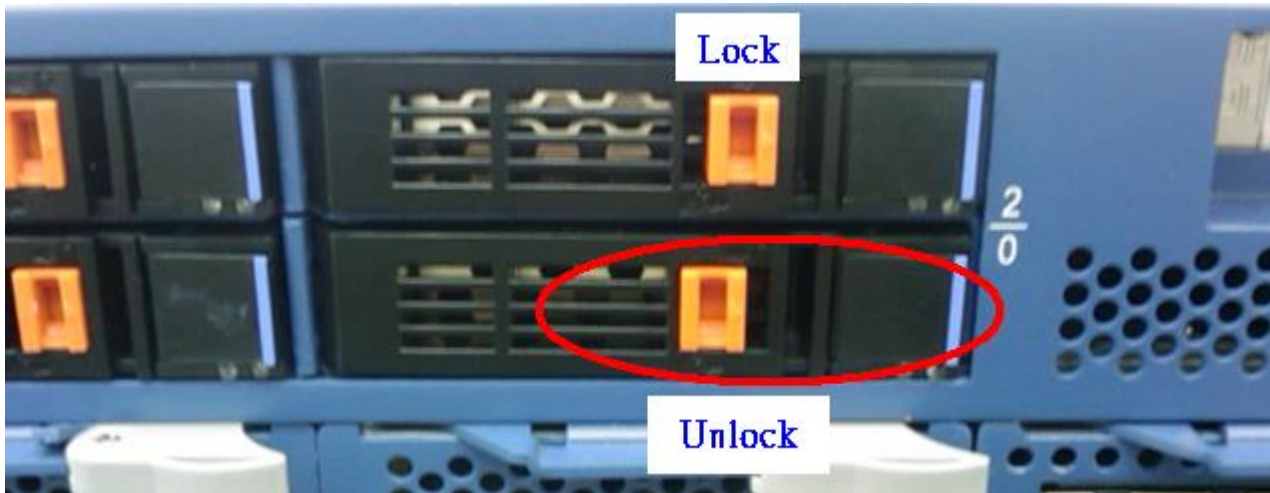
2. Kindly close chassis cover and use screwdriver to lock 3 chassis screws,





## 1-7 HDD and HDD tray installation

1. Kindly unlock HDD orange lock key.



2. Kindly push blue line button, the handle HDD tray will auto pop up, please pull HDD tray from chassis



3. Kindly get 4 screws from accessory.





4. Kindly use screwdriver to lock 4 screws , let 2.5" HDD to fix in HDD tray



5. Kindly insert HDD tray into Chassis, and lock HDD orange lock key.

## 2. FRONT PANEL CONNECTOR INTRODUCTION

### 2-1 RJ45 connector introduction



1. **Condole port** : It is a COM port of RJ45 type,

If customer needs to remote control by console redirection, kindly use RJ45 to console cable to connect FWA-6510's COM port and Test PC's RS232 COM port



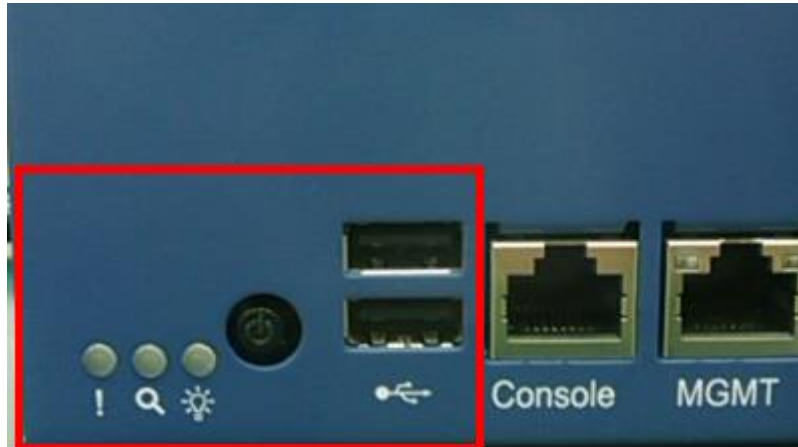
2. **MGMT (Manage) LAN port**: It is Intel 82574L LAN port, and it is a BMC LAN port too.

User can use this port to remote control FWA-6510 by network, and it can use this LAN port to control FWA-6510 BMC (IPMI) function.

3. **HA (High available) LAN port**: It is Intel 82574L LAN port,

User can set this LAN port as HA (High available) data transfer.

## 2-2 LED, USB and power button introduction



### Panel LED



1. It is an alarm LED, When FWA-6510 has an alarm event or turn off, and the LED will show **Amber**



2. It is location LED, User may key-in IPMI command to enable this LED (**Blue** color ) to help user find this LED on Rack mount.

Ex: When user key-in “**ipmitool chassis identify**” command, location LED will turn on (default is 15 seconds)

```
[root@localhost Desktop]# ipmitool chassis identify
Chassis identify interval: default (15 seconds)
[root@localhost Desktop]# ipmitool chassis identify 30
Chassis identify interval: 30 seconds
```



3. It is a power LED, when system power on, the LED will show **Green**



4. It is a power button, when user press this button, FWA-6510 will turn-on



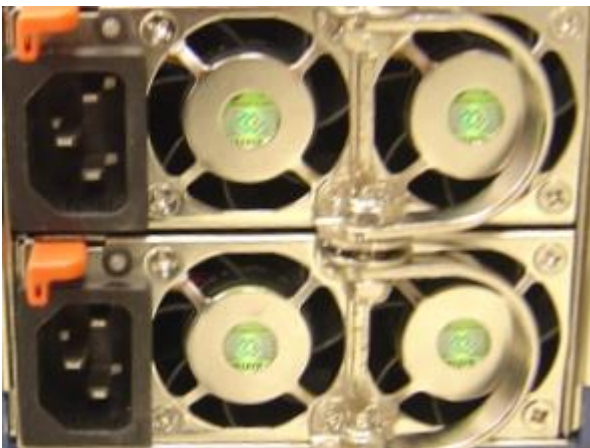
5. USB Port, The front panel of FWA-6510 has two USB port.

## HDD LED



1. Green LED is a HDD active LED, when green LED turns on, it means HDD is reading/writing.
2. Amber LED is a HDD status LED (4 HDD tray version only)
  - 2-1 When Amber LED is short blinking, it is just for indication.
  - 2-2 When Amber LED is long blinking, it means HDD is rebuilding
  - 2-3 When Amber LED is always turn on, it means HDD is fail, please exchange new HDD ASAP.

## Rear panel LED



Power LED color: Green/Red

LED will be 'Green' when Power is running healthily.

LED will be 'Green blinking' when Power status is stand by, Power only provide +5Vsb to system.

LED will be 'Turn off' when power cord is unplugged

LED will be 'Red' when power is fail





FAN LED color : Green

LED will be 'on' when fan is running healthily.

LED will be 'blinking' when fan is running under lower threshold.

LED will be 'off' when fan module is not mounted.

**1. FWA-6510 needs power-on BMC module first and BMC initial time needs 25 sec**

**When user insert power code and press power button immediately, FWA-6510 will alarm beep sound 25 sec. and then execute BIOS boot up procedure.**

**Boot procedure of FWA-6510 is depending on Memory size, it needs to wait 30 ~ 60 sec.**

- 2. If BMC function is crash, BIOS will boot system after 90 sec, user needs to re-flash BMC firmware after system boot up.**