



**Falcon 4010**

**Quick Installation Guide**



Dear Users

Thank you for choosing our product-Falcon 4010.

The excellent quality and performance make our products superior in the like product. For you to have the good understanding to Falcon 4010, please read the installation guide and user manual, and operate according to the suggested steps for each feature.

If you have any questions when using our machine, please feel free to contact us. We are more than happy to serve you constantly.

Technical Support: [support@h3platform.com](mailto:support@h3platform.com)

FAQ: <https://www.h3platform.com/>

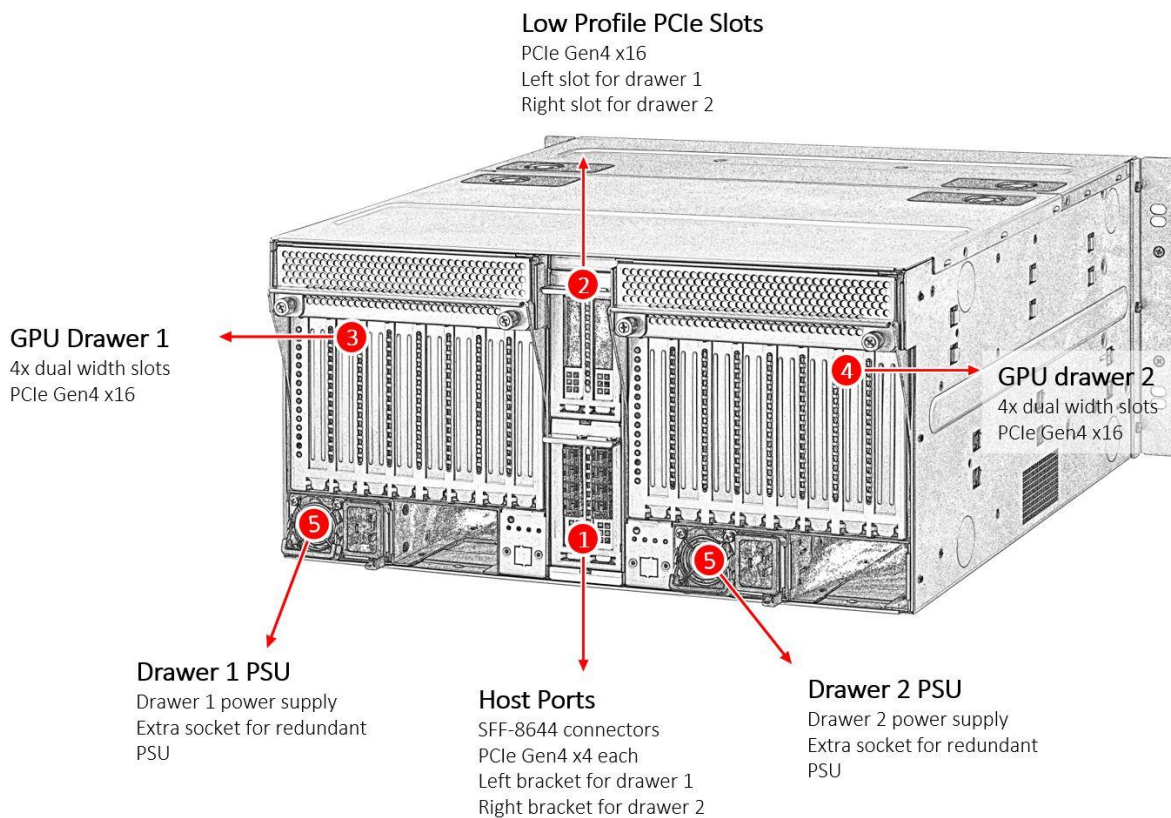
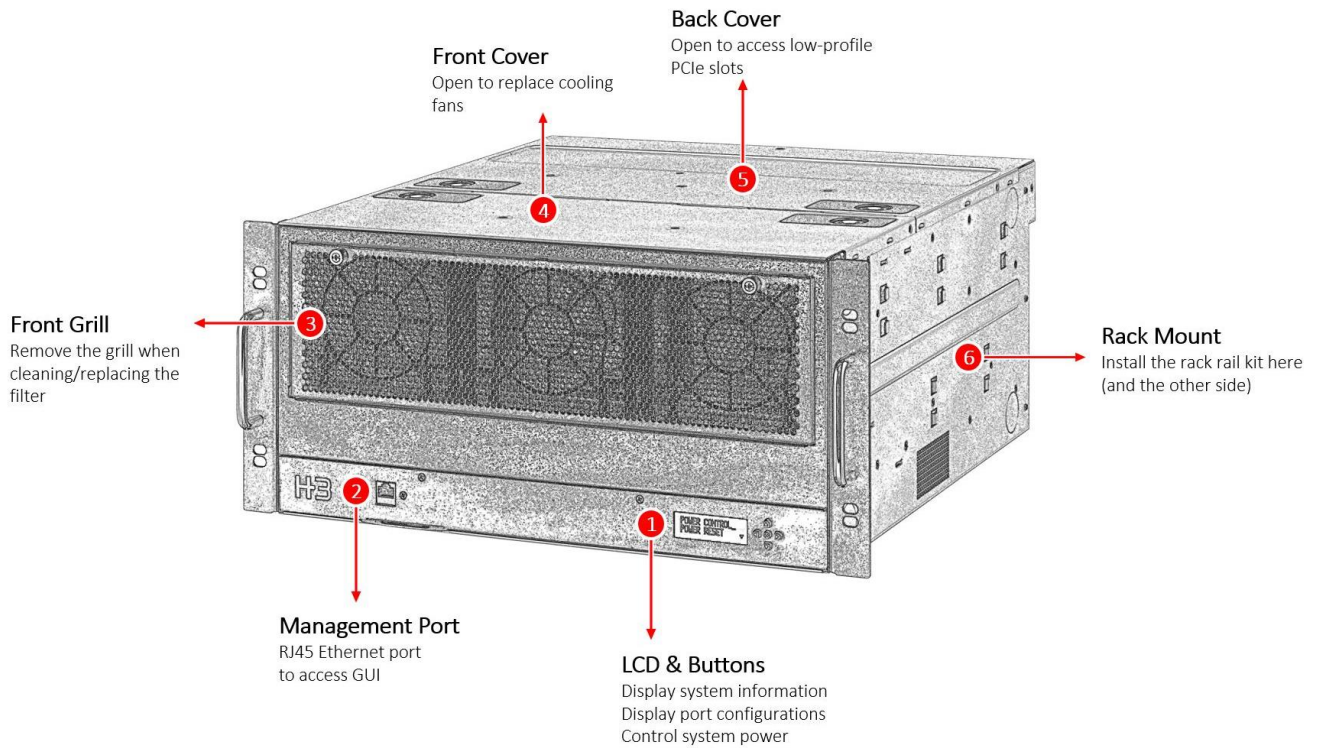
H3 Platform Inc. mainly researches and develops PCIe switch-based technology and solutions.

---- H3 Platform Inc.

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# Chassis Overview



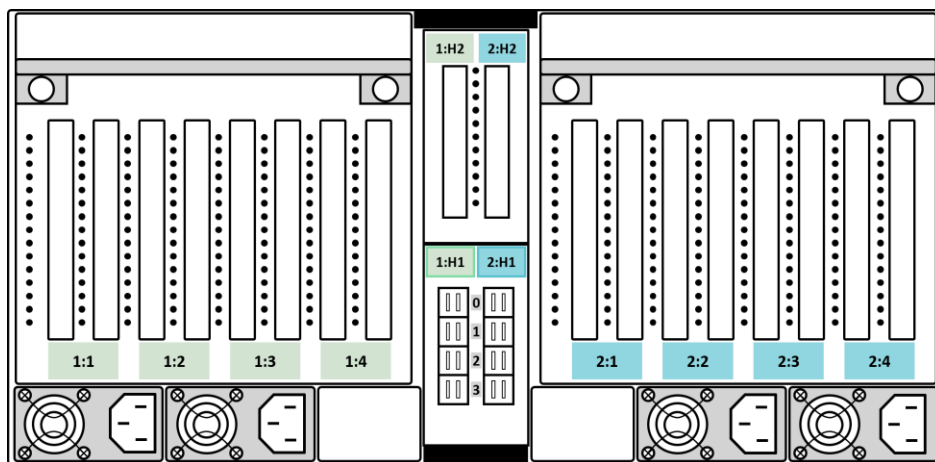
# PCIe Port Number

Please refer to the image below to find the physical PCIe slots that is corresponding to the port numbers displayed on the GUI.

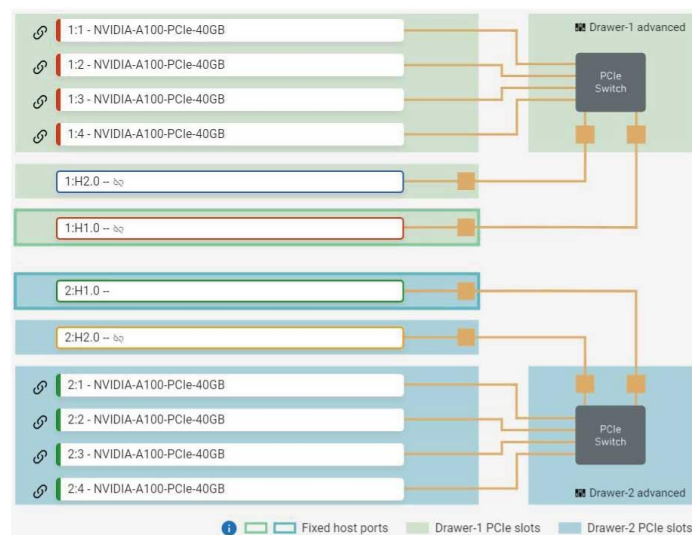
E.g.

The device installed on the slot 1:1 will be shown on GUI as “1:1 – [device name]”.

## Chassis rear view



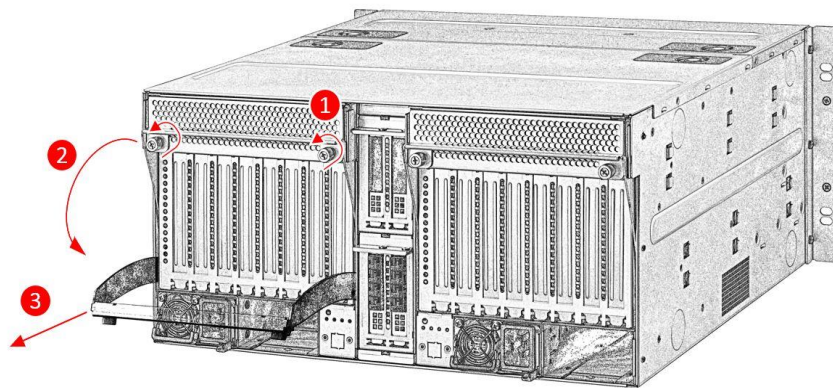
## GUI view



# GPU Installation

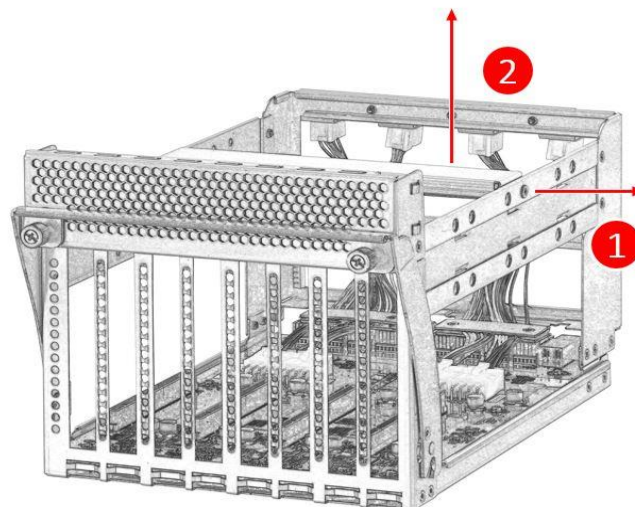
## 1. Pull out the drawer

1. Loosen the hand screws.
2. Pull the handle all the way down.
3. Pull the drawer out.



## 2. Remove the stabilization plate

1. Unscrew the stabilization plate (both sides).
2. Lift the plate up to remove.



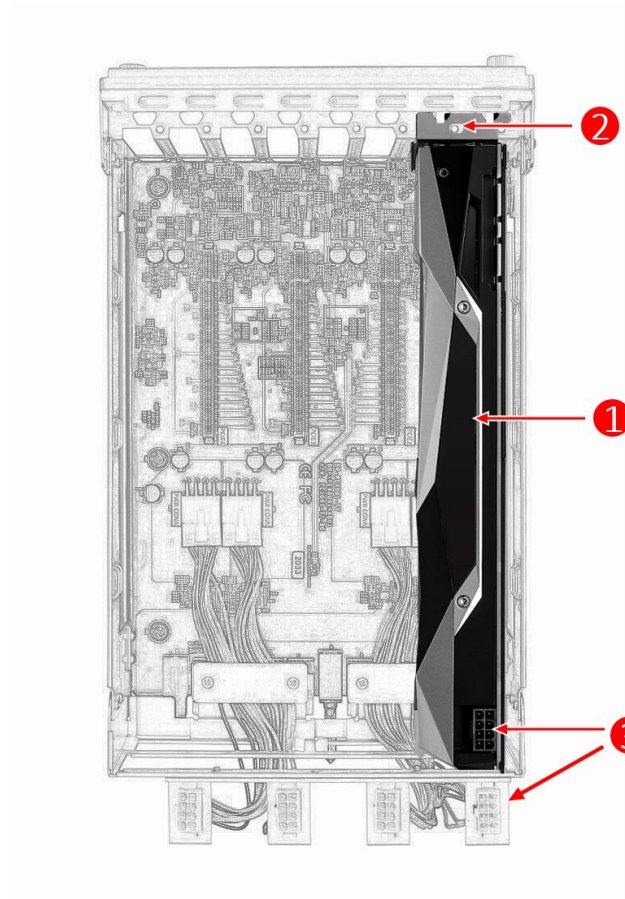
### 3. Install GPU

1. Plug the GPU to the PCIe slot.
2. Screw the bracket to hold the GPU in place.
3. Connect the PCIe power cable to the GPU.

**Caution:**

The slots are dual width. Oversized devices may not fit.

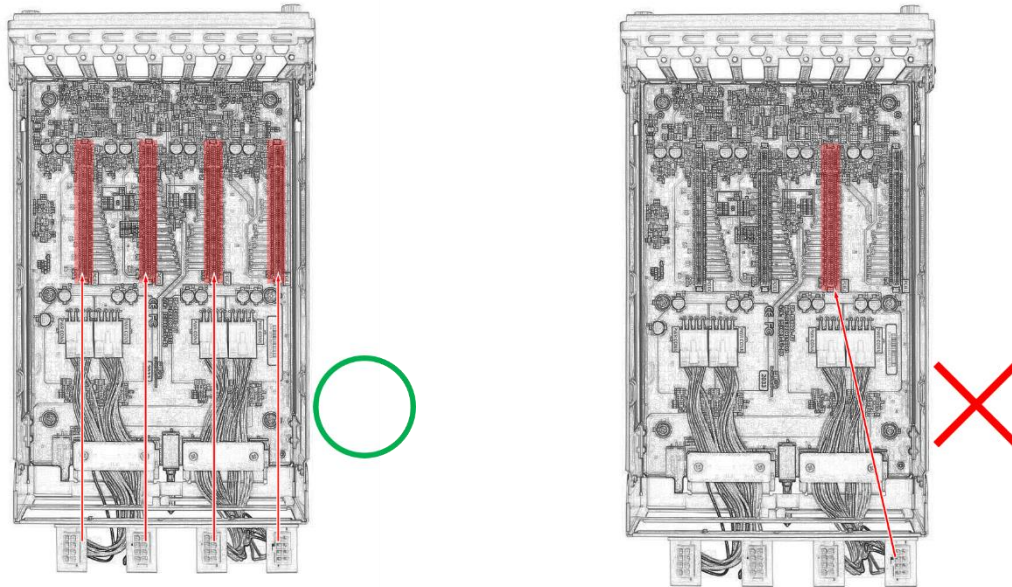
Use the suitable power cable for your GPU model.





The power connectors are PCIe slot specific.

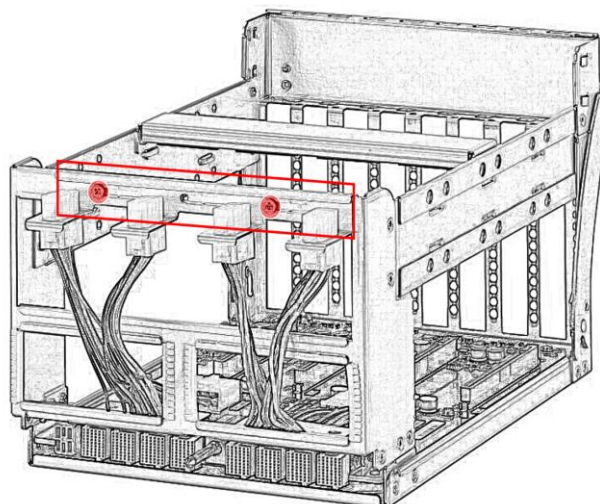
Please do not cross connect power cables to the devices on other PCIe slots.



The position of the power connector holder is adjustable.

Adjust the position of the power connectors for smooth GPU installation.

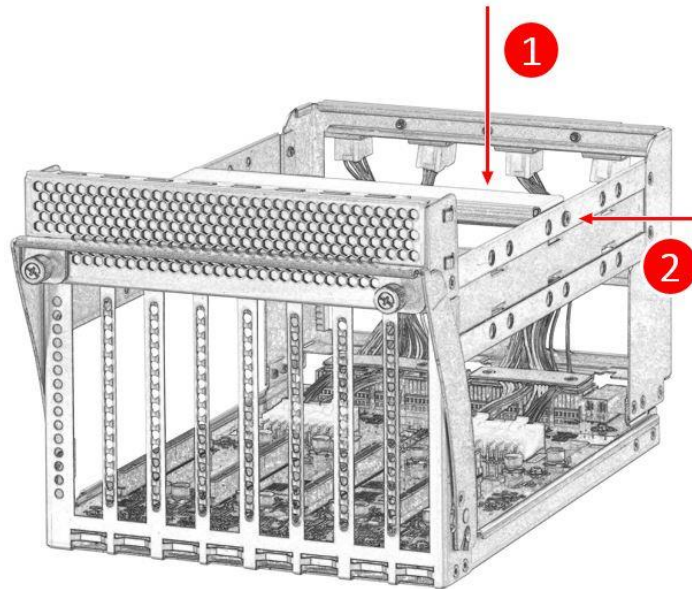
1. Loosen the screws.
2. Move the holders to desired position.
3. Tighten the screws to hold it in position.



## 4. Put the stabilization plate back

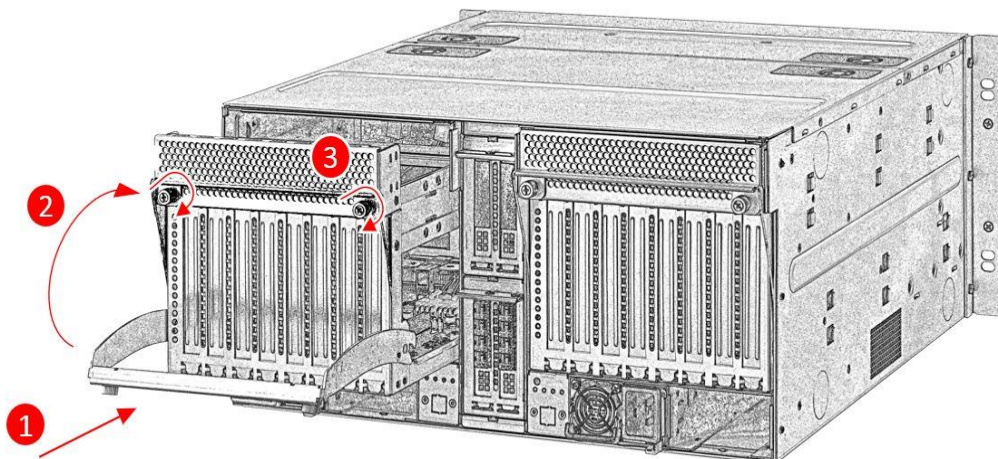
1. Place the stabilization plate back.
2. Screws on both sides to hold the plate in place.

There are three positions available for the stabilization plate, pick the ones that would not block the power connectors of your GPU.



## 5. Insert the drawer back to the chassis

1. Push the drawer all the way into the drawer socket until slight resistance.
2. Lift the handle, the drawer will be pushed into the position.
3. Tighten the hand screws.



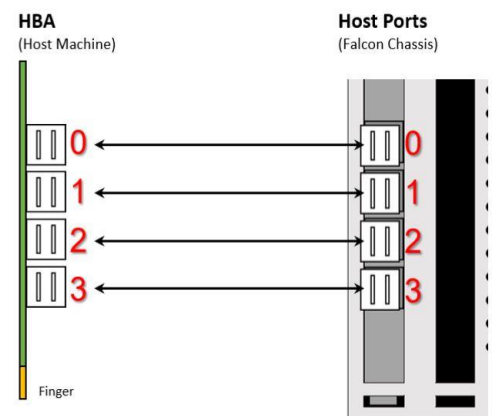
# Cabling Guide

## 1 port x16 lanes

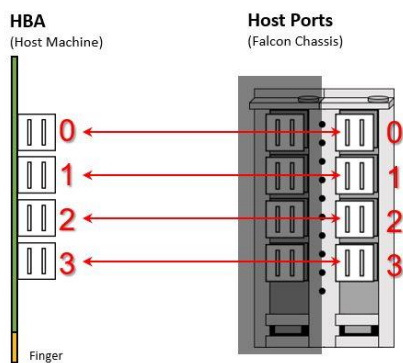
Connect the correspond ports as shown in the right diagram

Host	-	Chassis
0	-	0
1	-	1
2	-	2
3	-	3

The connected host will be recognized as  
“[drawer #]:H1” on the GUI



E.g. Image below demonstrates cabling for 2:H1



## 2 ports x8 lanes (Advanced mode)

Connect the corresponding ports as shown in the right diagram

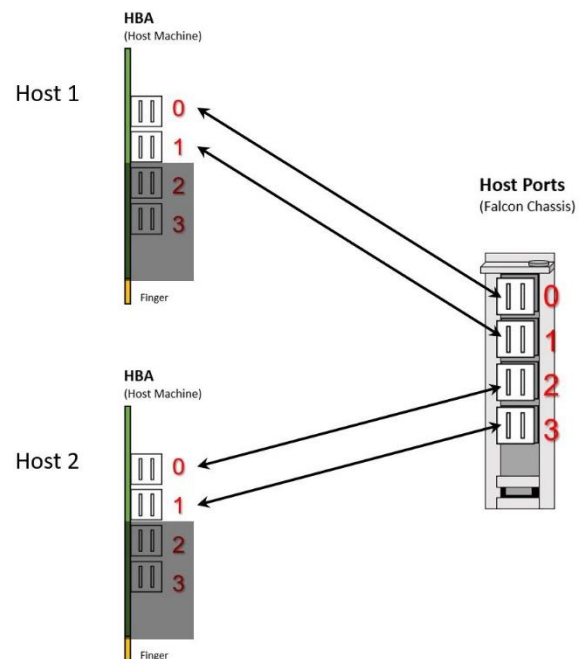
Host 1	-	Chassis
0	-	0
1	-	1

Host 2	-	Chassis
0	-	2
1	-	3

Host 1 will be recognized as 1:H1.0

Host 2 will be recognized as 1:H1.1



## 4 port x4 lanes (Advanced mode)

Connect the correspond ports as shown in the right diagram

Host 1	-	Chassis
0	-	0

Host 2	-	Chassis
0	-	1

Host 3	-	Chassis
0	-	2

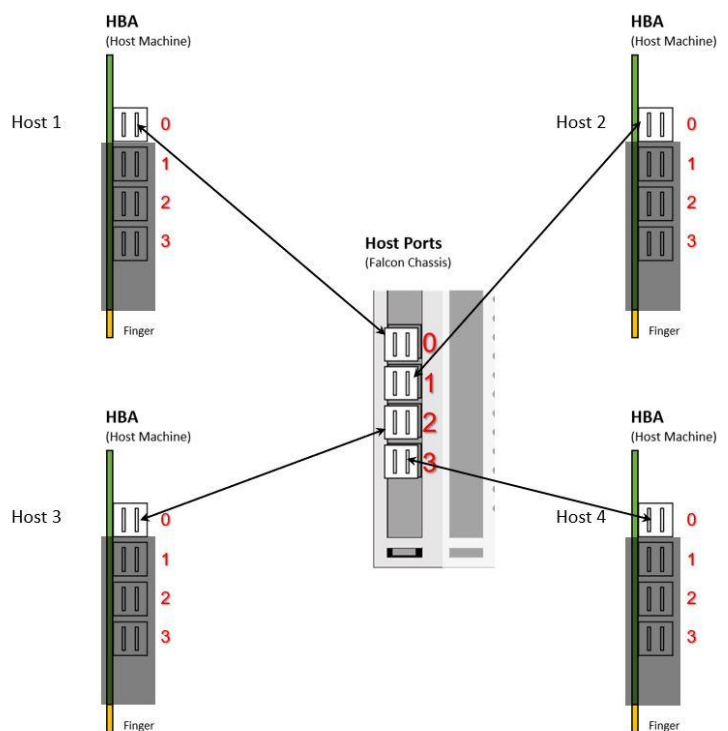
Host 4	-	Chassis
0	-	3

Host 1 will be recognized as 1:H1.0

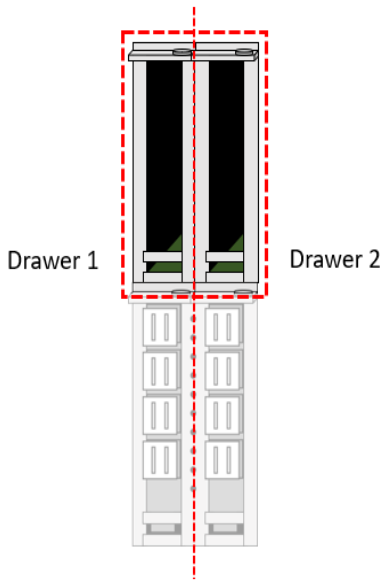
Host 2 will be recognized as 1:H1.1

Host 3 will be recognized as 1:H1.2

Host 4 will be recognized as 1:H1.3



# Additional Host Ports



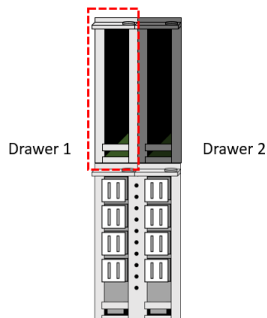
Please install the re-timer card to the riser slot for additional host port(s)  
This host port will be recognized as 1:H2 or 2:H2 on GUI.

Make sure that the port(s) is configured into host mode before installing the re-timer card. See Falcon-4010 User Manual- Port Configuration for details

Note:

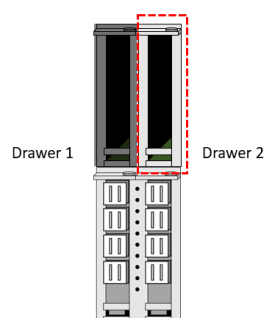
H3 re-timer card only supports 1x16 configuration now. Bifurcation function coming soon.

## Drawer 1 Additional host port



Install the re-timer card to the upper-left bracket for drawer 1. (1:H2)

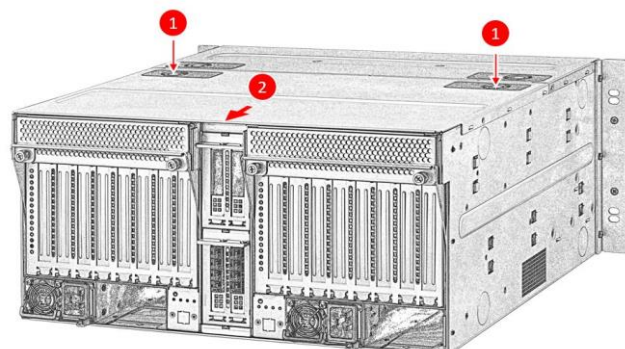
## Drawer 2 Additional host port



Installed the re-timer card to the upper-right bracket for drawer 2 (2:H2)

## To open the top lid:

1. Press and hold both buttons on the lid
2. Push the lid toward back





# Booting Process

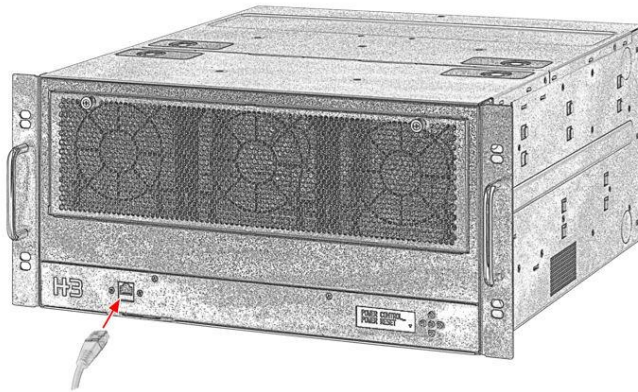
## Caution:

Please complete Falcon 4010 boot up before power on any hosts.  
Improper operation can cause system errors.

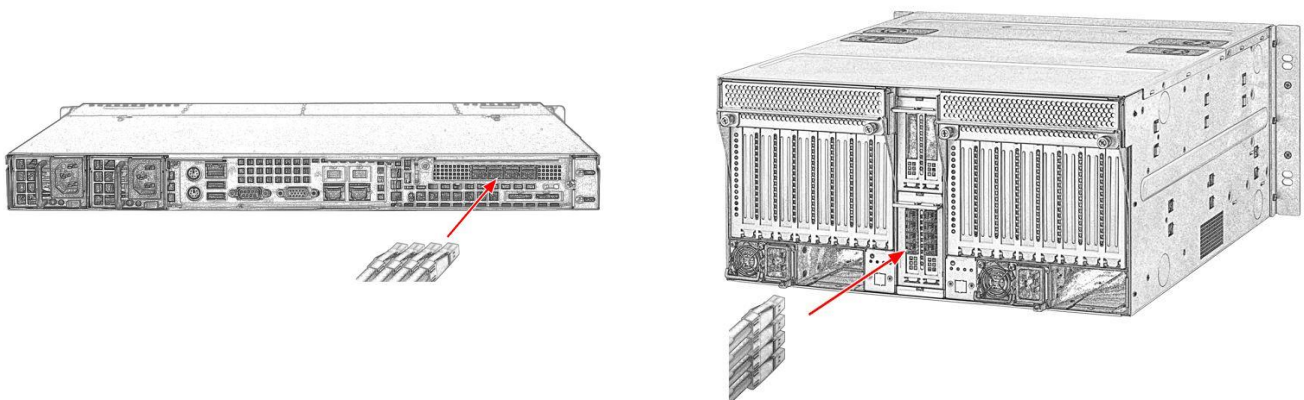
## 1. Install GPUs to Falcon 4010

Please refer to the GPU installation section.

## 2. Connect the management port to your network



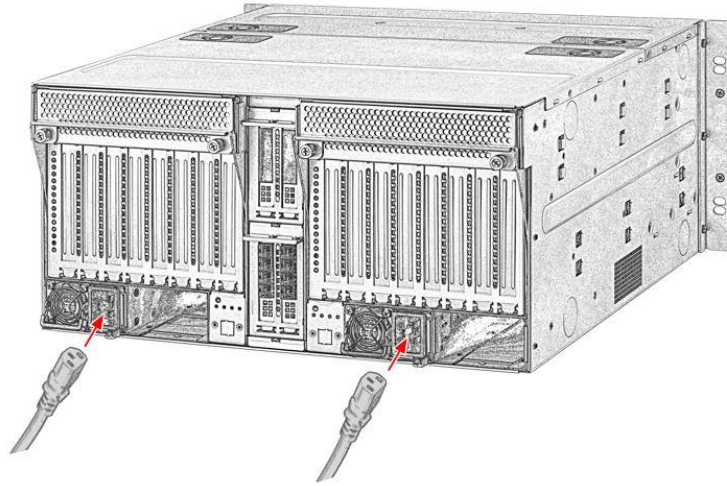
## 3. Connect the chassis to host(s)



The actual position of HBA may look different on your host(s).  
For cabling details, please see the Cabling Guide section.

## 4. Connect to A/C power

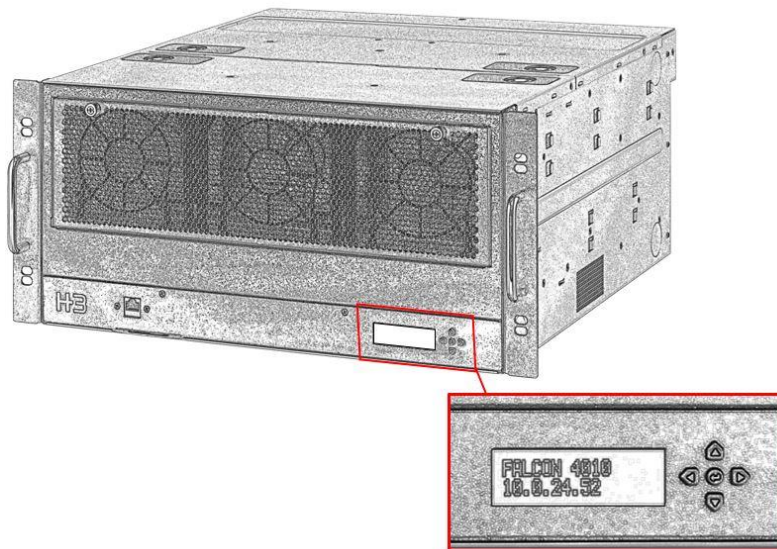
Falcon 4010 will be powered-on when the power cords are plugged in. No further action is required for this step.



## 5. Check LCD for system readiness

When the system is ready, the LCD will display the model name and the IP address.

E.g. "Falcon 4010"  
10.0.24.52



**You can now proceed to GUI set up**

# GUI Initial Setup

You can access Falcon 4010 GUI with following browsers:

Firefox 3.5 (or higher)  
Chrome v\_12 (or higher)

Type the IP address of Falcon 4010 to the URL bar to enter GUI. You could find the IP address from the LCM module. Make sure the IP is correct and is under the same subnet as the management machine. You will be asked to complete the initial setup at the first log-in.

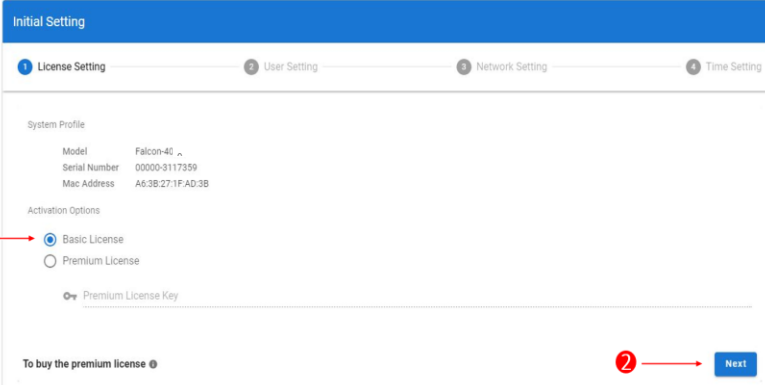
Please refer to the following steps to complete initial setup. All settings could still be found in the GUI and be modified anytime.

*In some regions, the initial setup is done before shipment. You won't see the initial setup page during your first log-in.*

## 1. License Setting

License keys can be activated anytime later.

If you do not have a premium license key, select “Basic License”, leave the field blank, and click “Next” to proceed. The system will default to standard mode (limited to single host connection, without port configuration and device allocation functions).



The screenshot shows the 'Initial Setting' window with a progress bar at the top indicating four steps: 1. License Setting, 2. User Setting, 3. Network Setting, and 4. Time Setting. The 'License Setting' step is active. Below the progress bar, the 'System Profile' section displays the following information: Model: Falcon-40, Serial Number: 00000-3117359, and Mac Address: A6:3B:27:1F:AD:3B. Under the 'Activation Options' section, there are two radio buttons: 'Basic License' (which is selected) and 'Premium License'. Below these is a text field for 'Premium License Key' with a lock icon on the left. At the bottom left, there is a link that says 'To buy the premium license @'. At the bottom right, there is a blue 'Next' button. Two red arrows with numbers are overlaid on the image: arrow 1 points to the 'Basic License' radio button, and arrow 2 points to the 'Next' button.

### 1. Choose your activation option.

Select “Basic License” if you have not obtained a premium license. The system will run standard mode.

Select “Premium License” and enter your license key if you have obtained one. The system will run advanced mode.

### 2. Click “Next” to proceed to User Setting.

Please contact [sales@h3platform.com](mailto:sales@h3platform.com) to purchase Premium License Keys.



## 2. User Setting

The username for the initial account will be “**admin**” and is not changeable.  
You will be asked to reset the log-in password for admin.

1. Type in your new password
2. Confirm new password
3. Click next to proceed to Network Setting

Initial Setting

License Setting User Setting Network Setting Time Setting

To set the administrator password

1 Set Password \*

2 Confirm Password \*

Previous Next 3

\* Please keep your password safe, you will be asked to log-in every time you access GUI

## 3. Network Setting

Select “Obtain IP address automatically” if not using static IP.  
Select “Obtain DNS server address automatically” if not using specific DNS server.

Setup static IP:

1. Fill in the IP address
2. Fill in the Subnet mask
3. Fill in the Default Gateway
4. Fill in the DNS server address
5. Click Next to proceed to time setting

Initial Setting

License Setting User Setting Network Setting Time Setting

TCP / IP Setting

Obtain IP address automatically (DHCP)  
Use the following IP address (Static IP)

1 IP Address \* 10.0.24.90

2 Subnet Mask \* 255.255.0.0

3 Default Gateway \* 10.0.21.1

DNS Setting

Obtain DNS server address automatically  
Use the following DNS server address

4 DNS Server \* 8.8.8.8

Previous Next 5

## 4. Time Setting

1. Select your time zone
2. Setup the system time

### Synchronize with NTP server:

Fill in the NTP server (NIST)  
address  
Click “Sync Now”

### Manual Setting:

Select a date using calendar  
Set a time

Initial Setting

License Setting User Setting Network Setting Time Setting

Current Date & time (Reason): 2020-11-27 11:14:12

Time Zone \* (GMT+08:00) Taiwan, Taipei

☒ Synchronize with NTP Server

NTP Server \* time.nist.gov

Last sync time (Reason): 2020-11-27 10:54:57

☐ Manual Setting

Date \* Time \*

Sync Now

Previous Apply

3. Click “Apply” to proceed

\* If you do not modify the time settings, the default time will be synchronized to time.nist.gov

## 5. Confirm your information

“Confirming Details” will pop-up.

Please make sure that all the information is correct.

Click “No” to keep editing settings.

Click “Yes” to save the settings.

Please do not exit the page when the saving process is loading.

Confirming Details

**License Setting**  
Activation Options : basic license

**User Setting**  
Username : admin  
Password : admin

**Network Setting**  
IP Address : 10.0.24.90  
Subnet Mask : 255.255.0.0  
Default Gateway : 10.0.21.1  
DNS Server : 8.8.8.8

**Time Setting**  
Type : Synchronize with NTP Server  
NTP Server : time.nist.gov  
Time Zone : (GMT+08:00) Taiwan, Taipei

0%

No Yes

**The Falcon 4010 installation and set-up are completed when settings are saved.  
Please see Falcon 4010 User Manual for operation details.**

# Warranty

H3 Platform offers free 2-year limited warranty service on our products. If the standard warranty period is not enough, H3 Platform offers optional purchase extended warranty service coverage that will provide warranty for 1, 2, or 3 additional years.

## Limited Warranty

H3 Platform warrants its products against defects in material and workmanship. Under normal use and service, every hardware portion of the products will be free from physical defects in material and workmanship during the warranty period, or the product will be repaired or replaced as determined solely by H3 Platform. H3 Platform provides a limited warranty for its products only to the person or entity that originally purchased the product from H3 Platform or its authorized distributor or retailer. H3 Platform's products are PCI switches, and H3 Platform makes no warranty of the devices installed, or warranty on compatibility of all PCIe devices. H3 Platform will not be liable in any way for the loss of data stored on H3 Platform products and any damage caused by this.

Extra warranty period might be provided by H3 Platform's worldwide dealers/distributors. Please contact dealers/ distributors to purchase the extended warranty.

If a product does not operate as warranted above during the applicable warranty period, H3 Platform shall, at its option and expense (except for shipping cost), repair the defective product or part, deliver to the customer an equivalent product or part to replace the defective item. All products that are replaced will become the property of H3 Platform. Replacement products may be new or reconditioned.

Warranty does not apply, if:

1. The warranty period is expired,
2. The warranty label is broken or removed,
3. The serial number label is missing or unrecognizable,
4. The product has been modified or repaired by any unauthorized service center or personnel.
5. The defect was subject to abuse, improper use not conforming to product manual instructions, or environment conditions more severe than those specified in the manual and specification.
6. The defect was subject to Force Majeure, such as acts of God, flood, lighting, earthquake, war, vandalism, theft, brownouts or sags (damage due to low voltage disturbances)
7. Consumables, such as batteries
8. Routine cleaning, or normal cosmetic and mechanical wear
9. Damage caused by misuse, abuse, or neglect
10. Damage caused by parts that were not manufactured or sold by H3 Platform
11. Damage caused by installing devices not on the compatible list
12. Damage caused when warranted parts were repaired or replaced by an organization other than H3 Platform or by a service provider not authorized by H3 Platform.

If the customer's product is not covered under warranty, H3 Platform may offer Repair Services under the customer's payment.

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## Compatibility

We have tested and verified the compatibility of third-party products and peripherals on the H3 Platform Compatibility List. Please note that the tests conducted in H3 Platform labs may not have covered every aspect and that changes to firmware or hardware may affect device compatibility and stability. H3 Platform does not guarantee the compatibility with third-party products and peripherals on the List and reserves the right to update the List at any time without prior notice.

## Repair Service

Warranty and out of warranty service should be obtained by contacting the system integrator/dealer/retailer/e-retailer or distributor where the customer purchased the product. When requesting for service, the proof of purchase and the product serial number must be provided. The return of the defective product should be strictly through the original route of purchase, and the customers shall pack the product appropriately to prevent the returned product from suffering in the transportation.

There are no user serviceable parts inside the product. Do not allow any unauthorized service center or personnel to repair or modify the product. If the original channel is no longer in business or unavailable, the customer may contact H3 Platform Technical Support for international RMA services. In this case, the customer will be charged for handling fee, \$50 (USD), and all fees incurred, including two ways freight, duties, taxes and brokerage fee.

It is customer's sole responsibility to back up his/ her data. Before allowing any service from H3 Platform or its service provider, including remote login check and repairing service, the customer must back up the data and remove any of the customer's confidential, proprietary or personal information. Neither H3 Platform nor its service provider will be liable for any damage, loss and exposure of confidential or private information or data contained in any product, hardware, software or media.

## Notice of Warranty Claims

All warranty claims must be made during the applicable warranty period. Any claim made after that time will not be eligible for warranty service but may be serviced under a separate H3 Platform support contract covering the product.

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4. Third-party claims against Customer for losses or damages.

5. H3 Platform PCIe Switches are not specifically designed, manufactured or intended for sale as parts, components or assemblies for the planning, construction, maintenance, or direct operation of a nuclear facility. Customer is solely liable if Products or Support purchased by Customer are used for these applications.

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